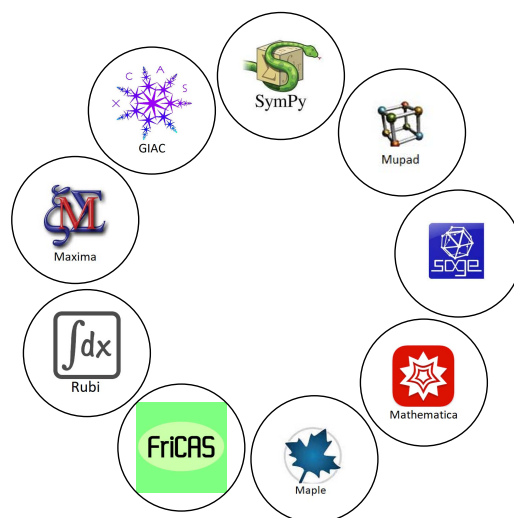


Computer Algebra Independent Integration Tests

Summer 2023 edition using Rubi V 14.7.3



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Contents

1	Introduction	1
2	Integrals which generated an exception for each CAS	42
3	links to individual test reports	6259
4	Listing of integrals solved by CAS which has no known antiderivatives	6272
5	Appendix	6330

CHAPTER 1

INTRODUCTION

1.1	Listing of CAS systems tested	2
1.2	Results	4
1.3	Time and leaf size Performance	7
1.4	Performance based on number of rules Rubi used	8
1.5	Performance based on number of steps Rubi used	9
1.6	Solved integrals histogram based on leaf size of result	10
1.7	Solved integrals histogram based on CPU time used	11
1.8	Leaf size vs. CPU time used	12
1.9	Performance per integrand type	13
1.10	Maximum leaf size ratio for each CAS against the optimal result . .	22
1.11	Pass/Fail per test file for each CAS system	32
1.12	Timing	37
1.13	Verification	38
1.14	Important notes about some of the results	38
1.15	Design of the test system	41

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

The listing of the problems used by this report are

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

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

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

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

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

The current number of problems in this test suite is [85978].

1.1 Listing of CAS systems tested

The following are the CAS systems tested:

1. Mathematica 13.3.1 (August 16, 2023) on windows 10.
2. Rubi 4.17.3 (Sept 25, 2023) on Mathematica 13.3.1 on windows 10
3. Maple 2023.1 (July, 12, 2023) on windows 10.
4. Maxima 5.47 (June 1, 2023) using Lisp SBCL 2.3.0 on Linux via sagemath 10.1 (Aug 20, 2023).
5. FriCAS 1.3.9 (July 8, 2023) based on sbcl 2.3.0 on Linux via sagemath 10.1 (Aug 20, 2023).
6. Giac/Xcas 1.9.0-57 (June 26, 2023) on Linux via sagemath 10.1 (Aug 20, 2023).

7. Sympy 1.12 (May 10, 2023) Using Python 3.11.3 on Linux.
8. Mupad using Matlab 2021a with Symbolic Math Toolbox Version 8.7 on windows 10.

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

Sympy was run directly in Python not via sagemath.

1.2 Results

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

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

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

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

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

Table 1.1: Percentage solved for each CAS

System	solved	Failed
Mathematica	% 98.229 (84455)	% 1.771 (1523)
Rubi	% 93.746 (80601)	% 6.254 (5377)
Maple	% 86.612 (74467)	% 13.388 (11511)
Fricas	% 80.894 (69551)	% 19.106 (16427)
Giac	% 59.023 (50747)	% 40.977 (35231)
Maxima	% 57.273 (49242)	% 42.727 (36736)
Mupad	% 57.081 (49077)	% 42.919 (36901)
Sympy	% 43.556 (37449)	% 56.444 (48529)

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

Table 1.2: Description of grading applied to integration result

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

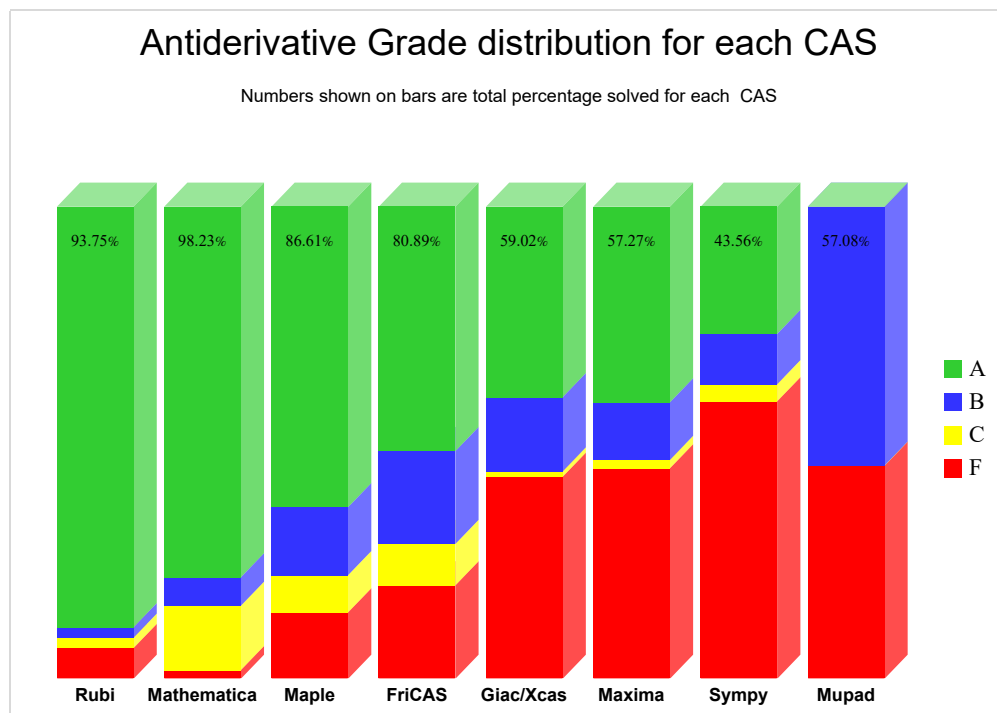
Grading is implemented for all CAS systems in this version except for CAS Mupad where a grade of B is automatically assigned as a place holder for all integrals it completes on time.

The following table summarizes the grading results.

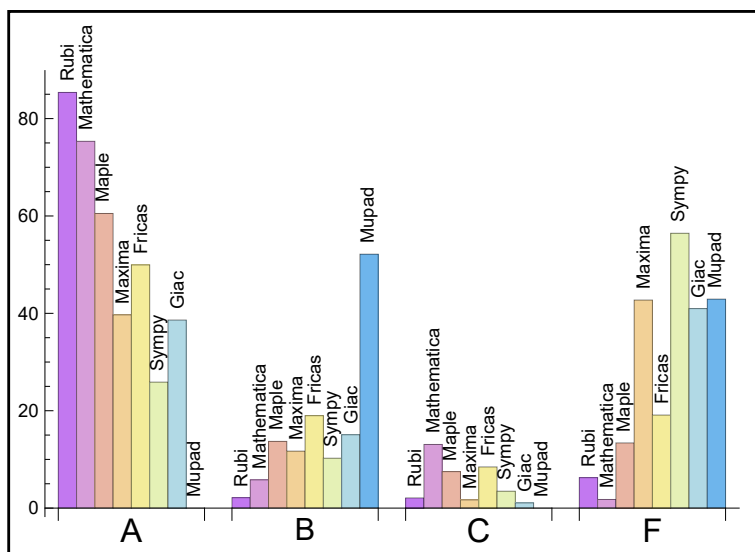
Table 1.3: Antiderivative Grade distribution for each CAS

System	% A grade	% B grade	% C grade	% F grade
Rubi	85.37	2.14	2.09	6.25
Mathematica	75.34	5.81	13.07	1.77
Maple	60.51	13.7	7.49	13.39
Fricas	49.95	18.99	8.45	19.11
Maxima	39.7	11.7	1.69	42.73
Giac	38.62	15.07	1.07	40.98
Sympy	25.87	10.24	3.46	56.44
Mupad	N/A	52.15	0.	42.92

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



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



1.3 Time and leaf size Performance

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

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

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

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

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

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

Table 1.4: Time and leaf size performance for each CAS

System	Mean time (sec)	Mean size	Normalized mean	Median size	Normalized median
Maxima	0.44	587.31	4.65	65.	1.08
Rubi	0.56	151.83	1.2	98.	1.
Fricas	1.18	1161.37	6.29	99.	1.34
Giac	2.03	632.64	4.85	70.	1.14
Mathematica	2.31	311.02	2.	80.	0.99
Sympy	5.36	373.46	4.35	44.	1.1
Maple	5.73	64590.5	753.3	80.	1.
Mupad	6.82	664.71	4.14	63	1.04

1.4 Performance based on number of rules Rubi used

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

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

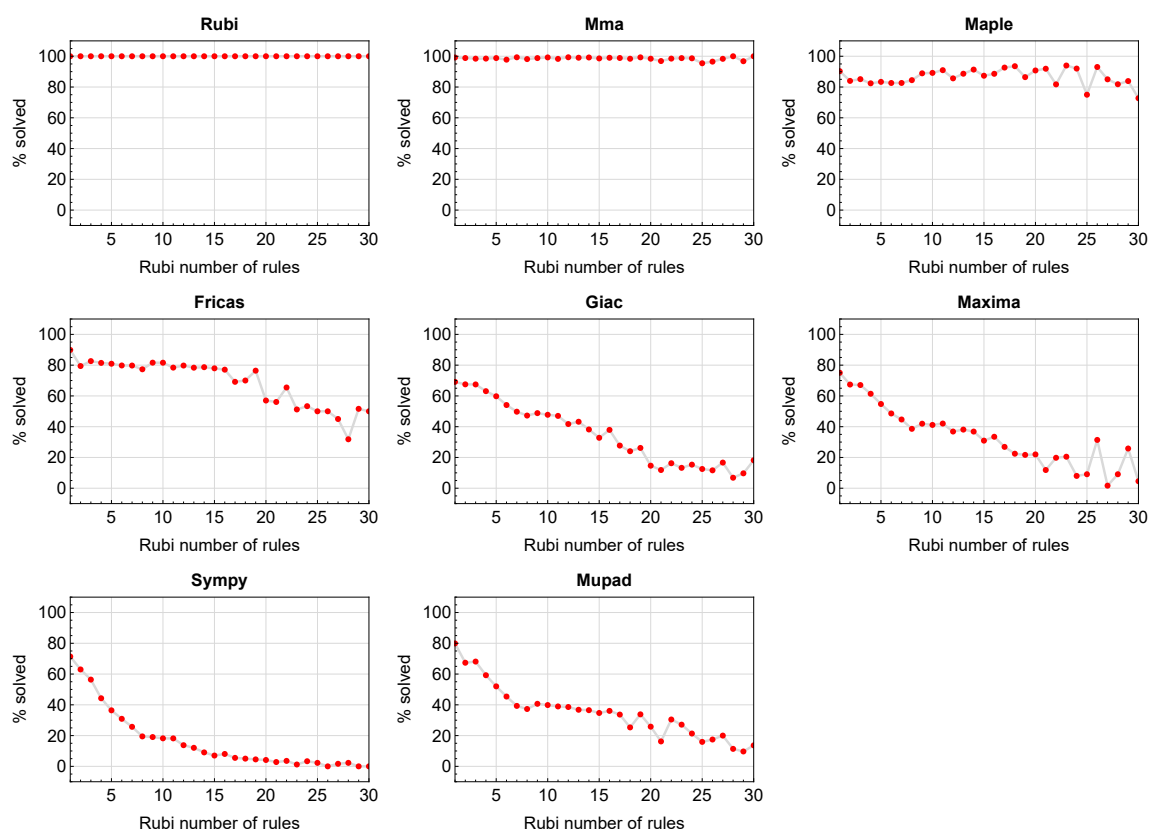


Figure 1.1: Solving statistics per number of Rubi rules used

1.5 Performance based on number of steps Rubi used

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

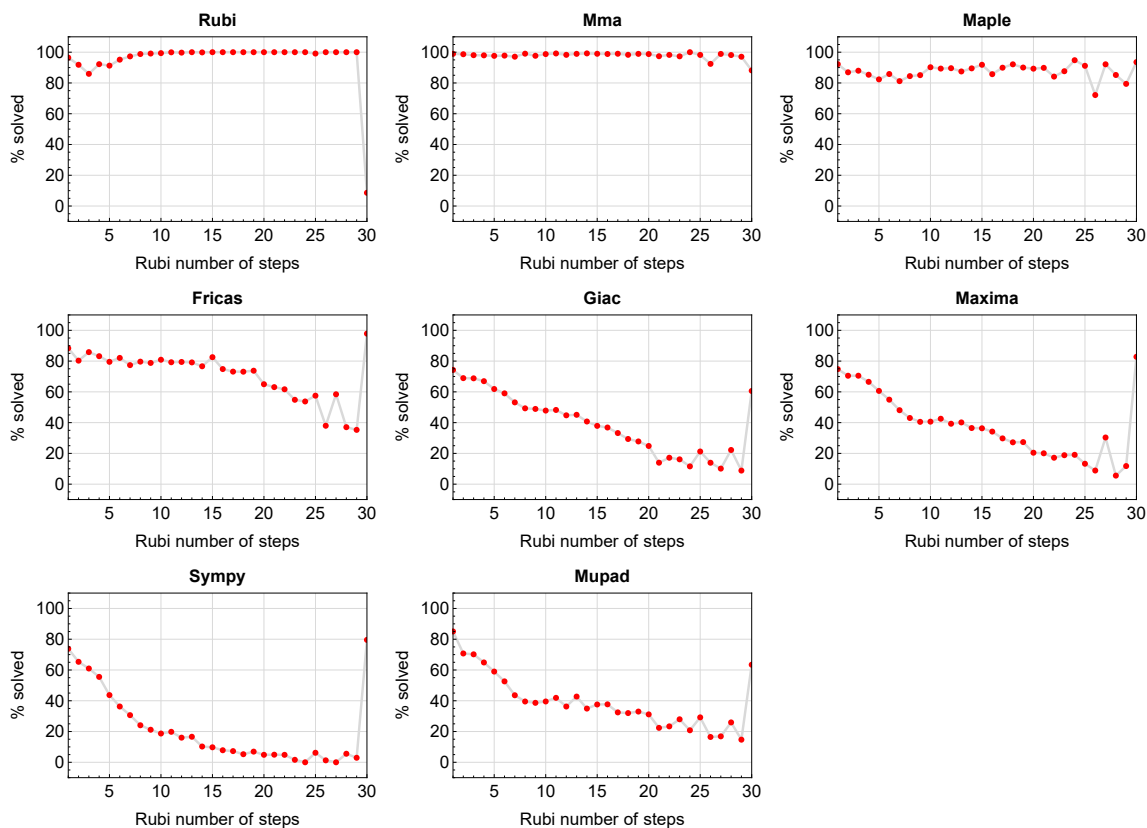


Figure 1.2: Solving statistics per number of Rubi steps used

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

1.6 Solved integrals histogram based on leaf size of result

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

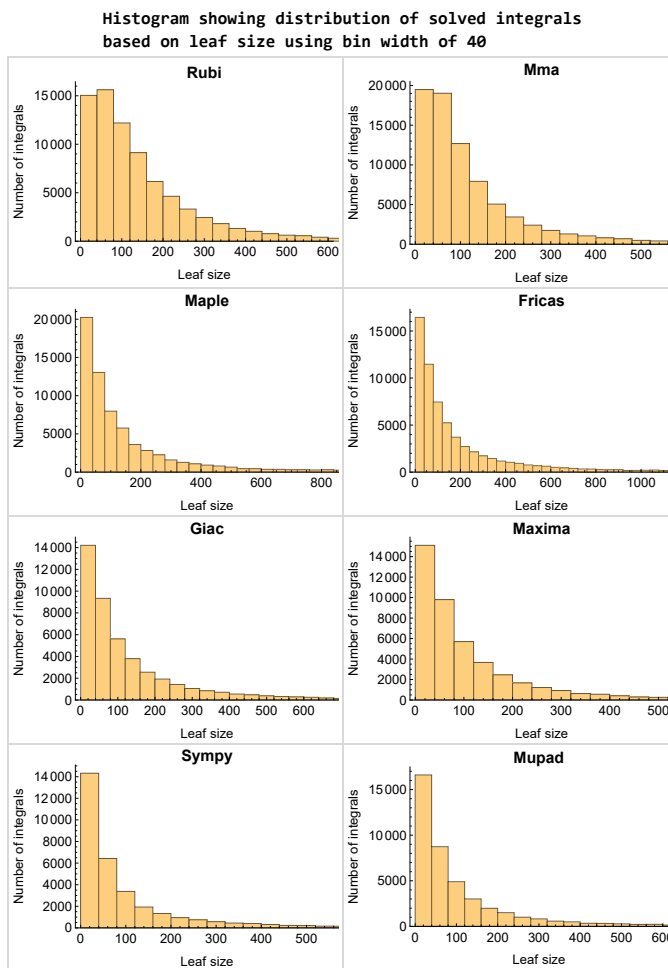


Figure 1.3: Solved integrals based on leaf size distribution

1.7 Solved integrals histogram based on CPU time used

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

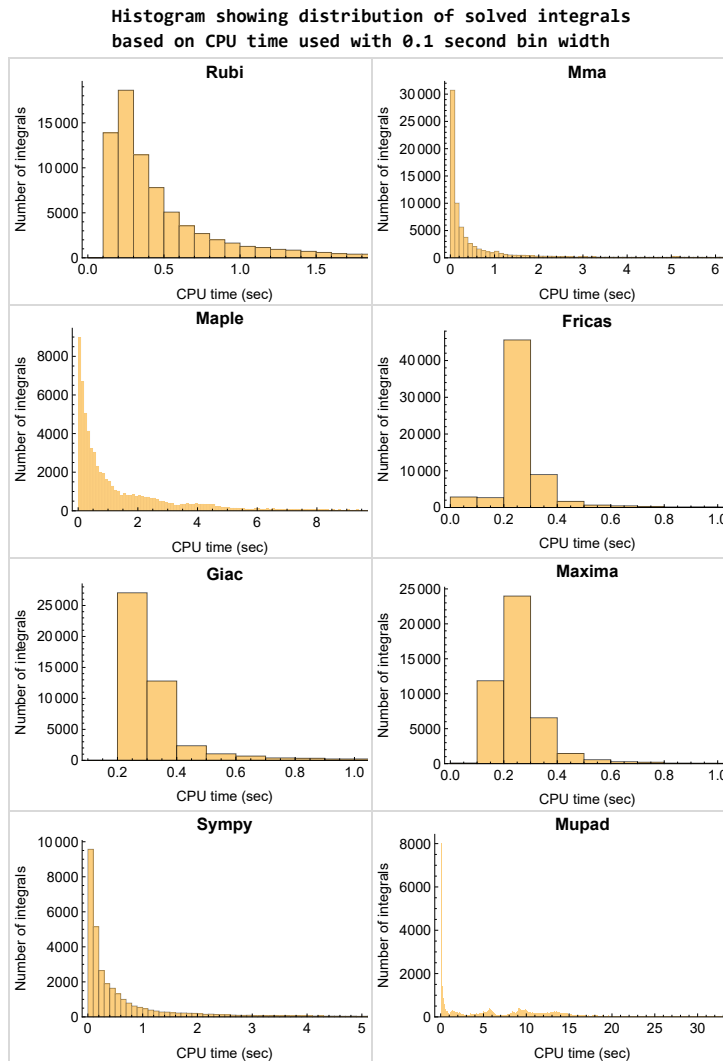


Figure 1.4: Solved integrals histogram based on CPU time used

1.8 Leaf size vs. CPU time used

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

The result for Fricas, Maxima and Giac is shifted more to the right than the other CAS system due to the use of sagemath to call them, which causes an initial slight delay in the timing to start the integration due to overhead of starting a new process each time.

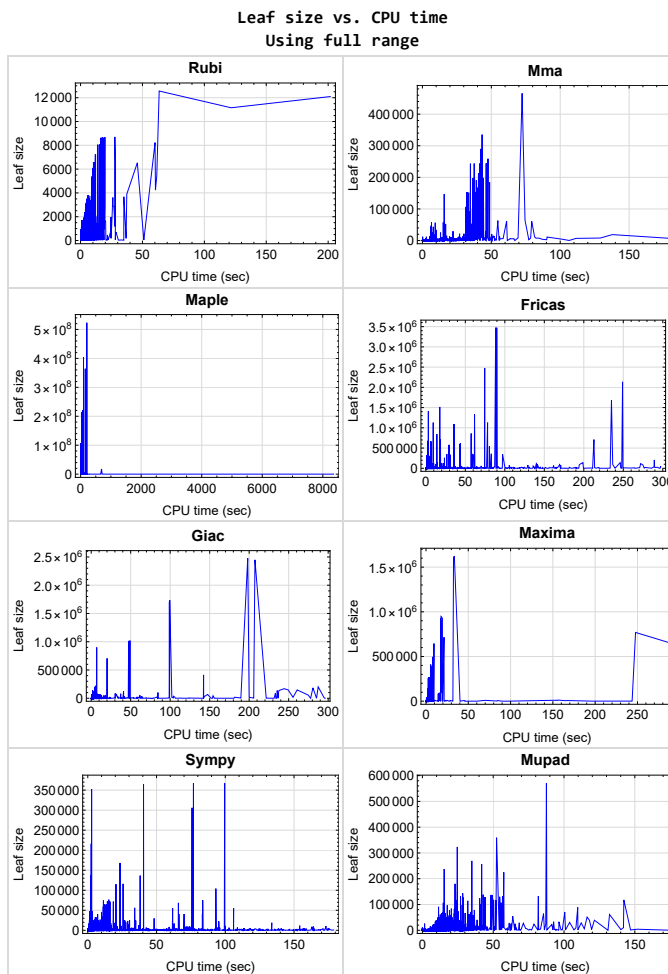


Figure 1.5: Leaf size vs. CPU time. Full range

1.9 Performance per integrand type

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

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

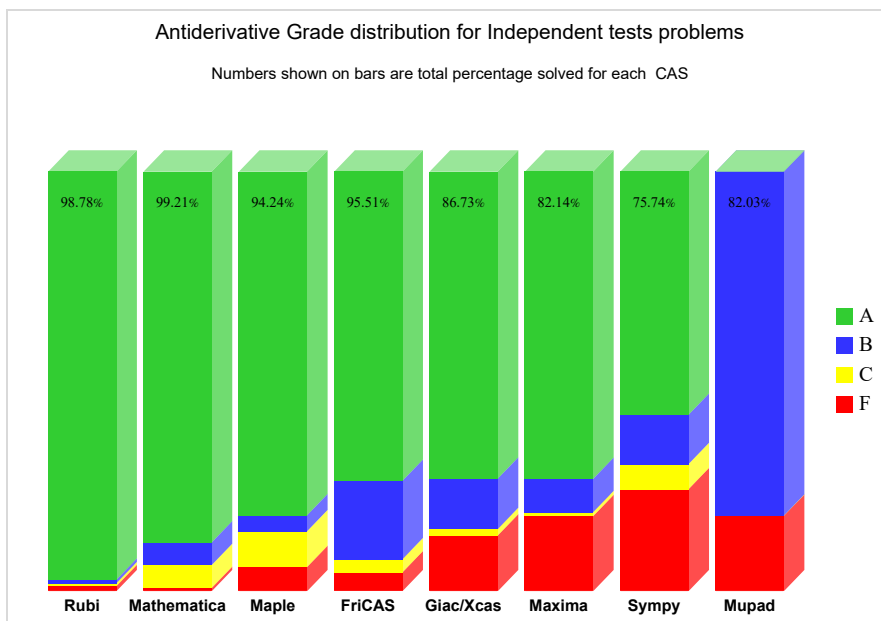
The following table gives percentage solved of each CAS per integrand type.

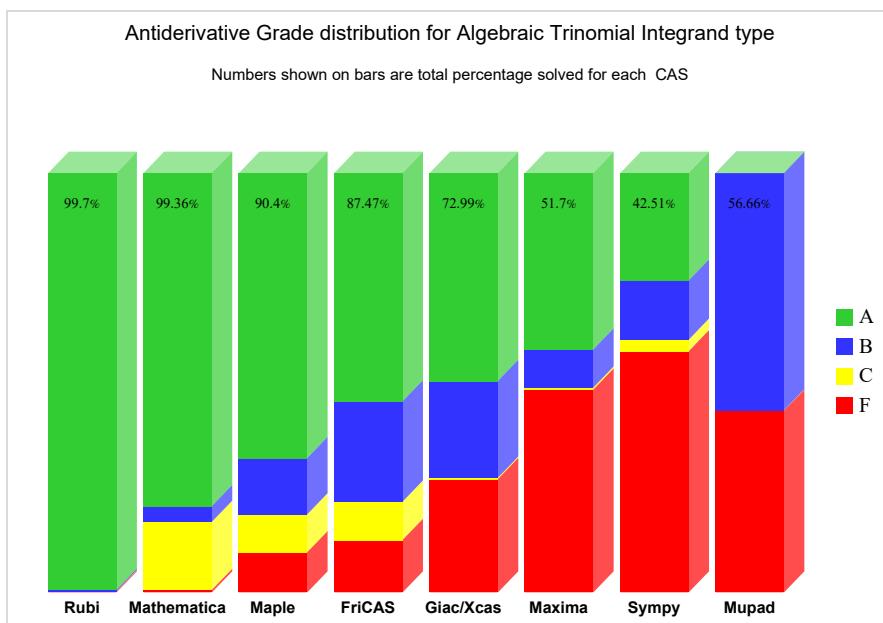
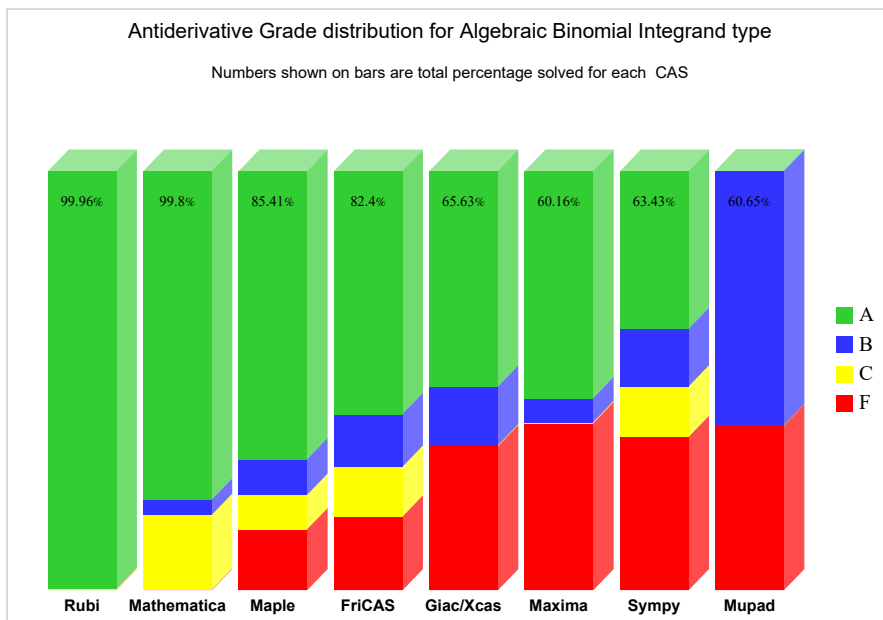
Table 1.5: Percentage solved per integrand type

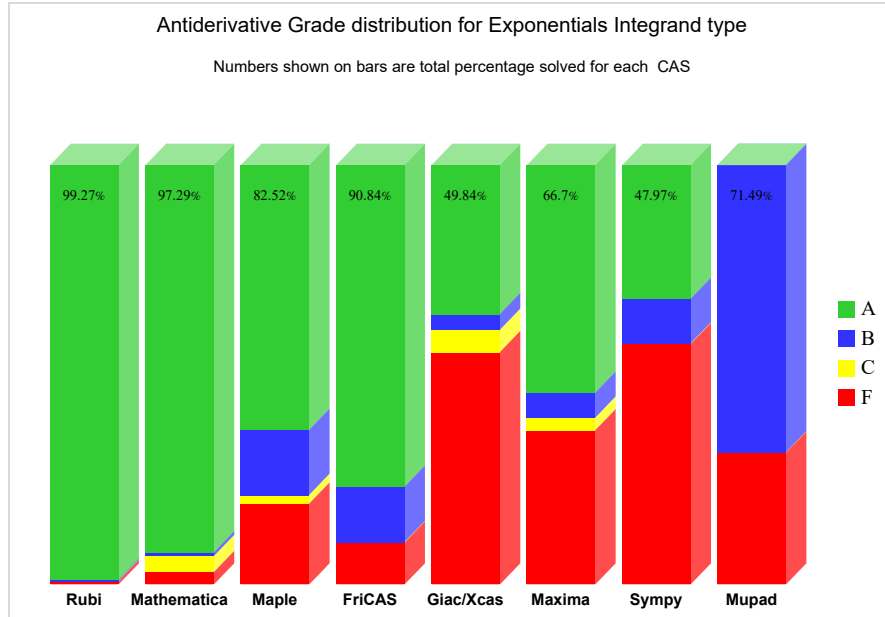
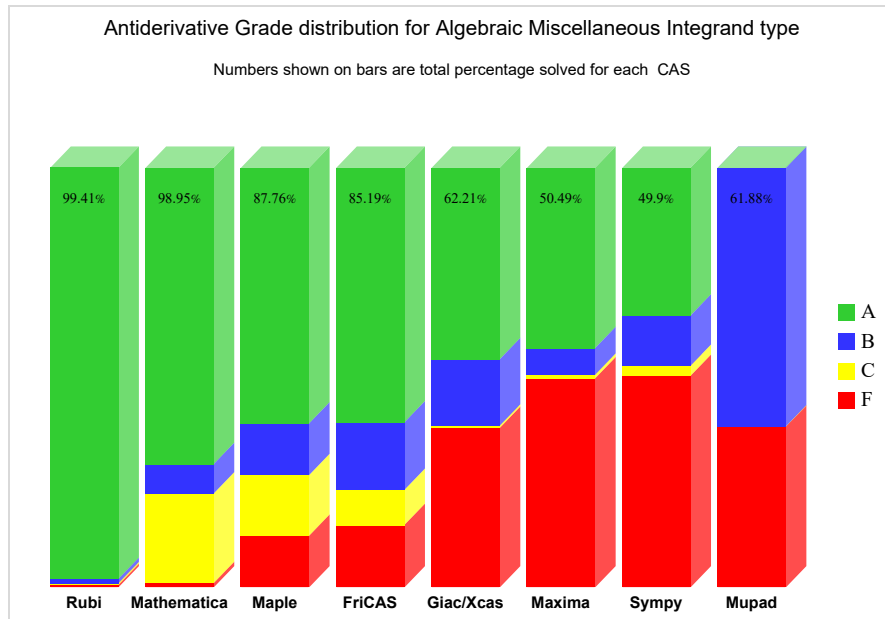
Integrand type	problems	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
Independent tests	1892	98.78	99.21	94.24	82.14	95.51	75.74	86.73	82.03
Algebraic Binomial	14276	99.96	99.8	85.41	60.16	82.4	63.43	65.63	60.65
Algebraic Trinomial	10187	99.7	99.36	90.4	51.7	87.47	42.51	72.99	56.66
Algebraic Miscellaneous	1519	99.41	98.95	87.76	50.49	85.19	49.9	62.21	61.88
Exponentials	961	99.27	97.29	82.52	66.7	90.84	47.97	49.84	71.49
Logarithms	3085	99.77	97.34	66.52	53.97	58.12	35.43	47.23	43.18
Trigonometric	22551	99.51	97.88	85.98	48.32	79.52	16.36	46.65	49.38
Inverse Trigonometric	4585	99.5	98.28	83.99	35.66	50.36	37.4	43.1	38.43
Hyperbolic	5166	98.72	98.84	83.1	62.04	91.17	24.56	62.45	54.72
Inverse Hyperbolic	6626	99.53	98.43	81.09	46.54	63.57	26.32	36.88	39.6
Special functions	999	98.7	95.6	71.67	47.85	71.27	46.75	31.23	40.14
Sam Blake file	3154	63.35	94.23	83.51	40.27	73.72	35.67	41.38	47.59
Waldek Heibisch file	10335	62.54	96.75	99.22	93.2	99.76	94.75	87.74	90.1
MIT Bee integration	321	94.7	99.38	95.33	92.52	96.26	82.55	91.9	90.03
Table of integrals	163	100.	100.	97.55	92.64	100.	90.8	100.	92.64

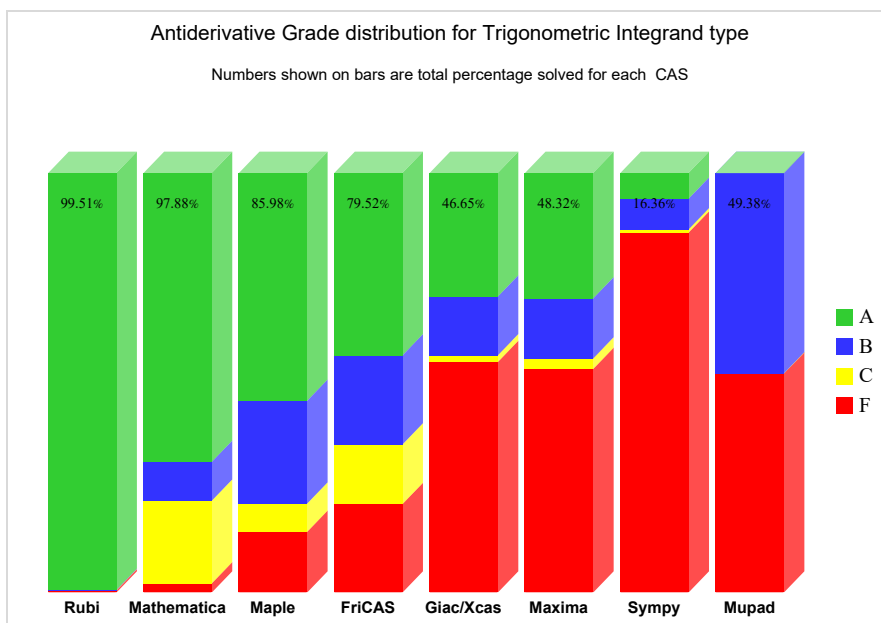
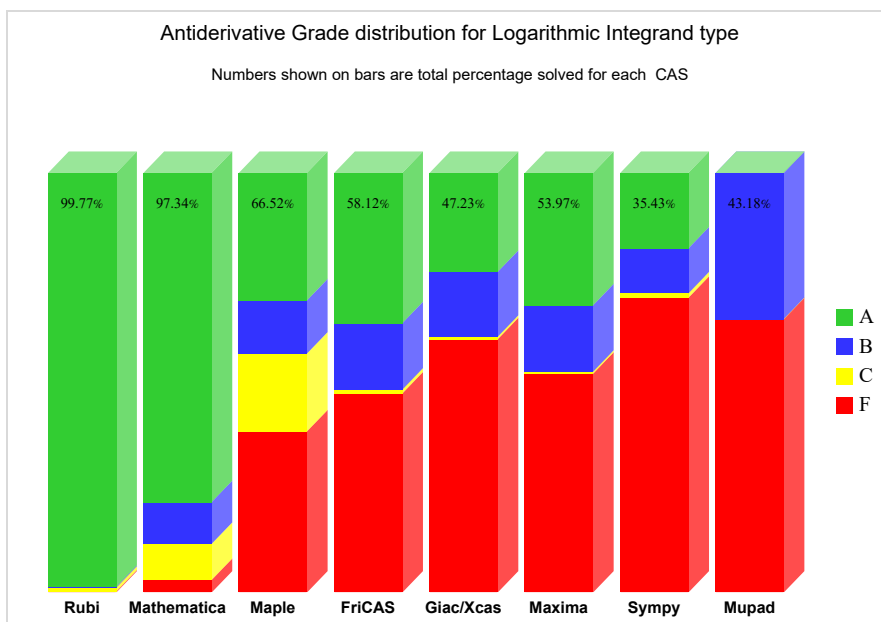
In addition to the above table, for each type of integrand listed above, 3D chart is made which shows how each CAS performed on that specific integrand type.

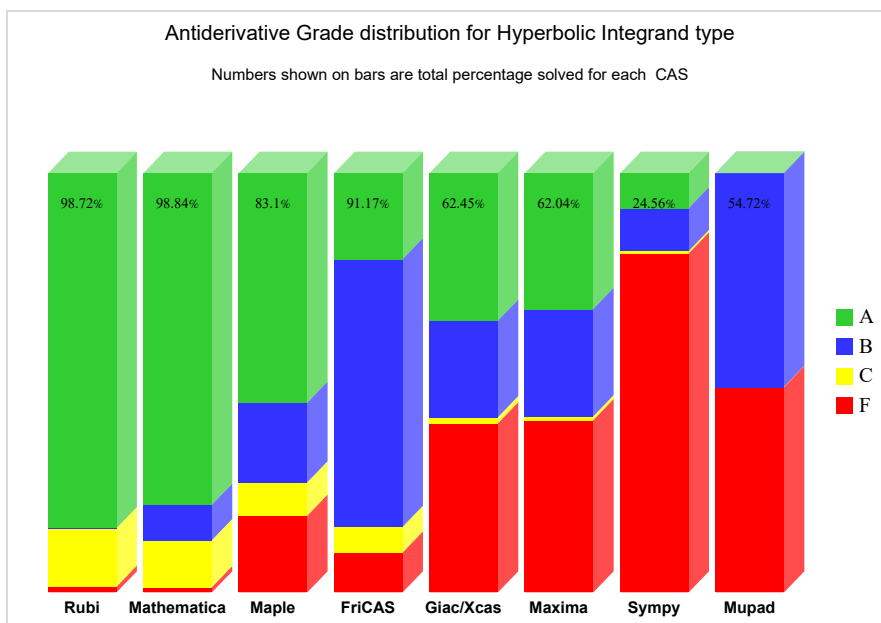
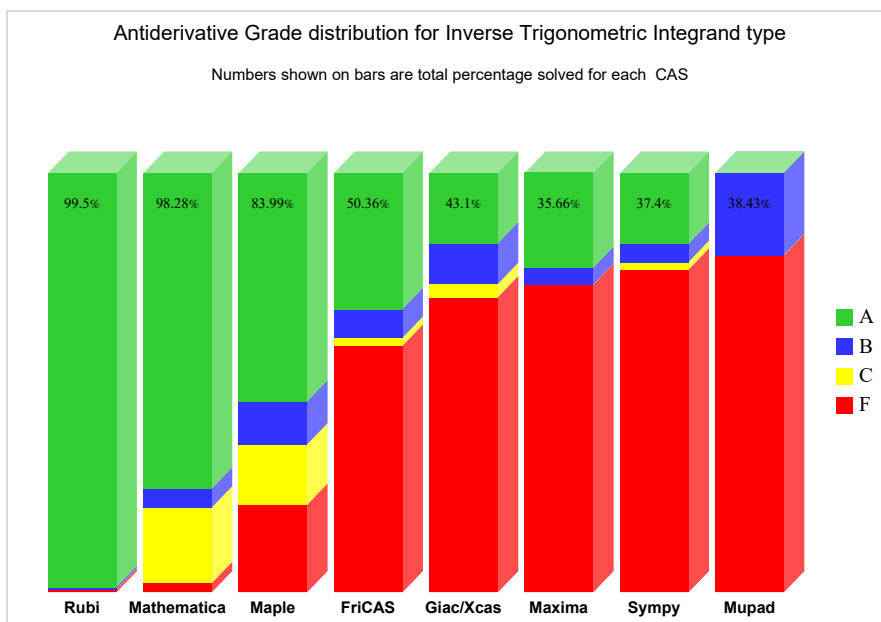
These charts and the table above can be used to show where each CAS relative strength or weakness in the area of integration.

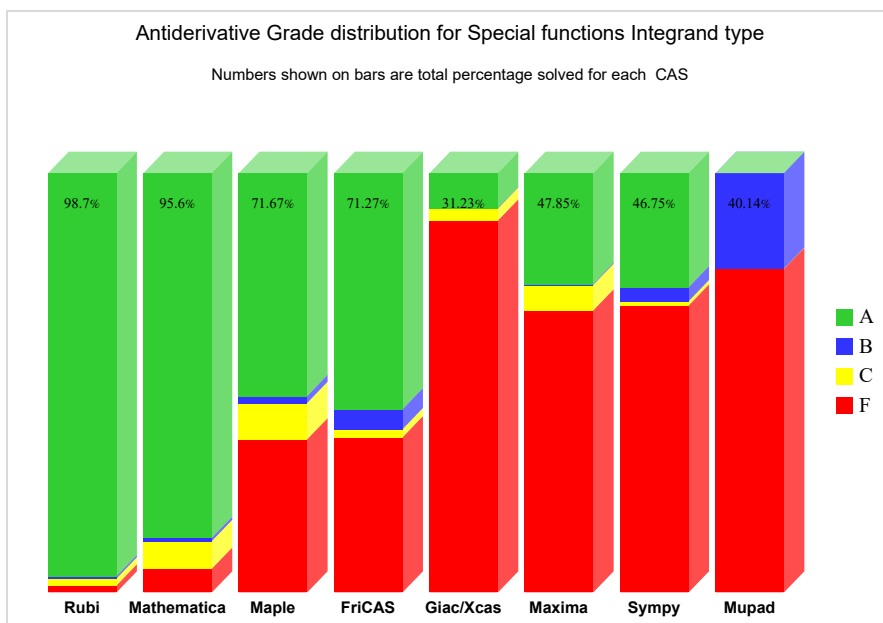
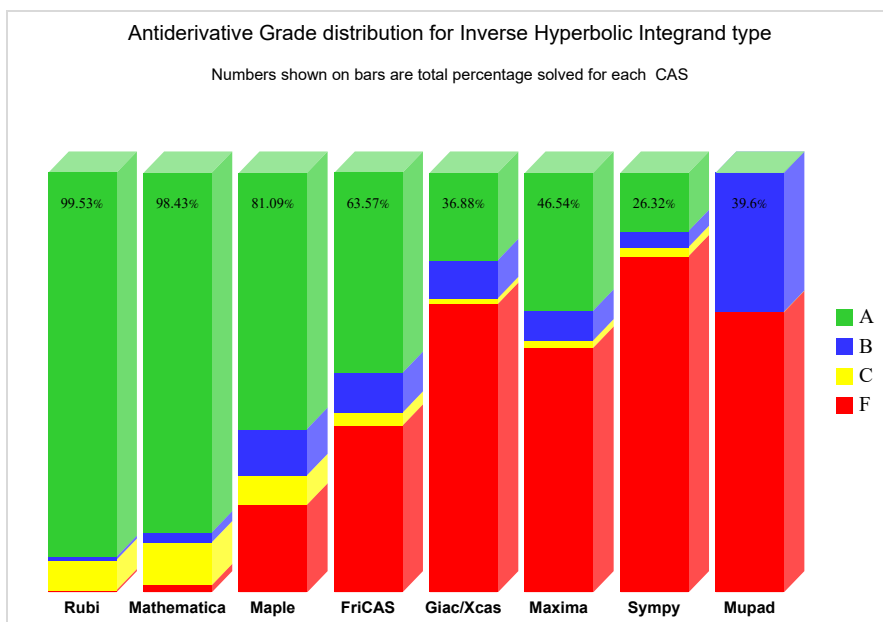


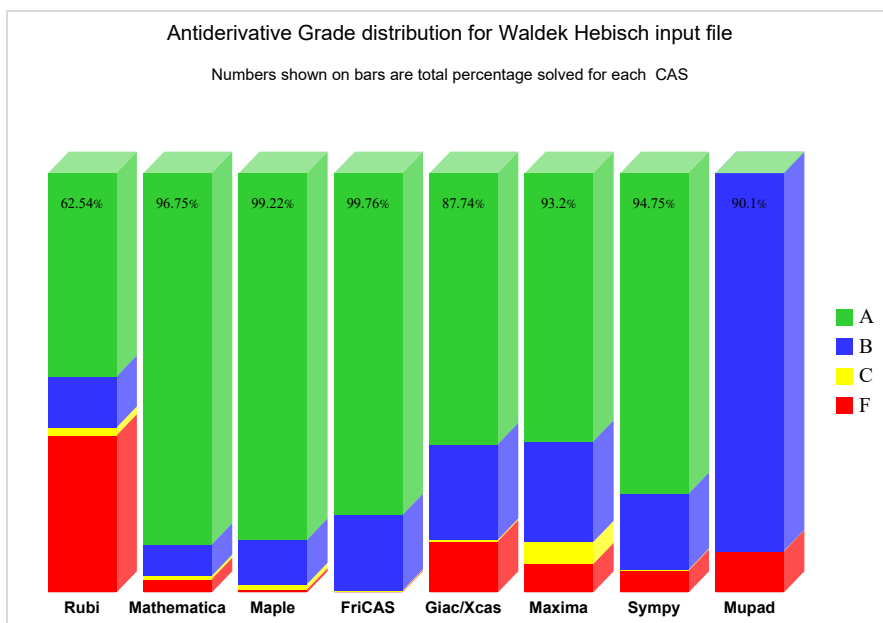
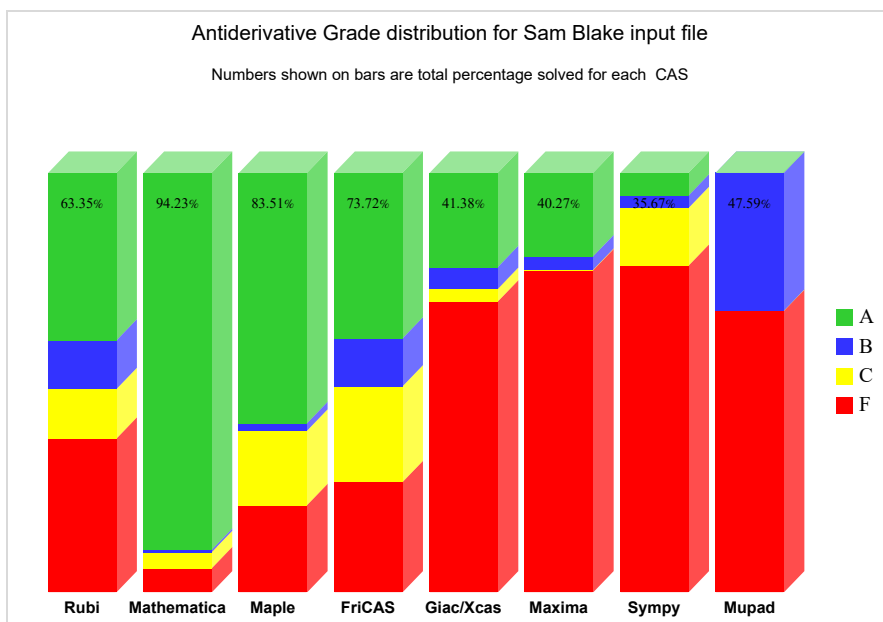


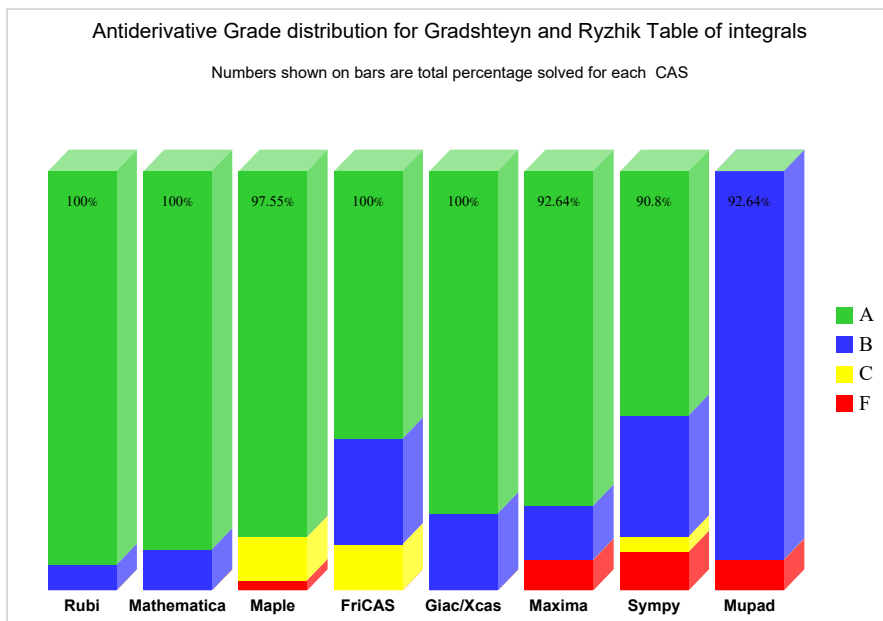
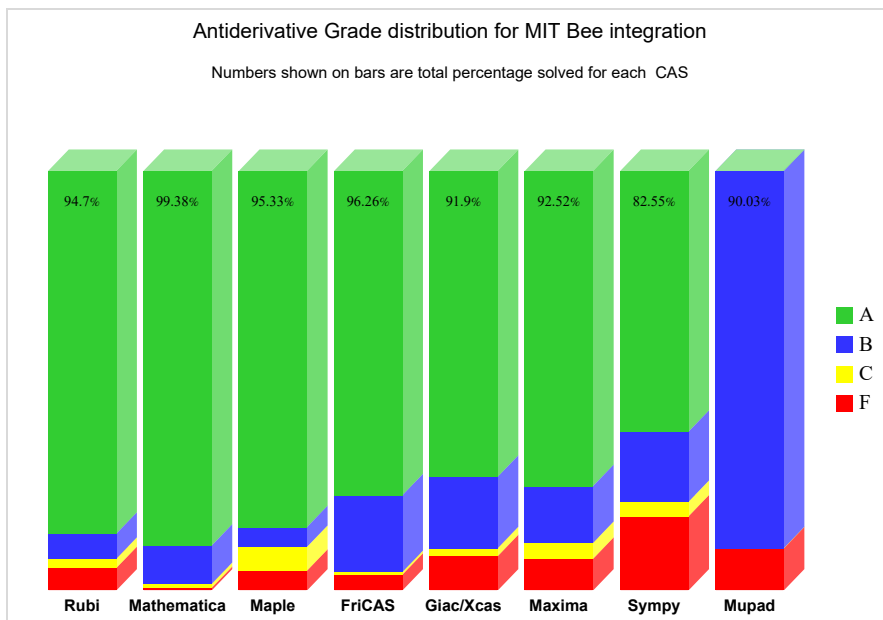












1.10 Maximum leaf size ratio for each CAS against the optimal result

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

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

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

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

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

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

#	Rubi	Mathemat- ica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
1	1.8 (133)	3.9 (50)	4.5 (170)	3.8 (169)	4. (45)	4789.3 (145)	4.2 (164)	0. (-1)
2	1.9 (26)	5. (26)	3.6 (17)	113.1 (21)	14.3 (13)	16.8 (5)	4.6 (2)	0. (-1)
3	1.1 (4)	2. (7)	2. (6)	11.1 (7)	2. (8)	1.9 (5)	1.9 (5)	0. (-1)
4	6.8 (5)	14.3 (13)	11.7 (8)	29.7 (8)	5.5 (43)	4.8 (40)	5.3 (1)	0. (-1)
5	2. (225)	54.7 (278)	11.9 (280)	8.1 (280)	7.7 (280)	39.8 (123)	19.5 (141)	0. (-1)
6	1. (1)	1.4 (3)	2.2 (4)	1.9 (1)	1.4 (7)	0.8 (4)	2.3 (5)	0. (-1)
7	2.2 (3)	5.6 (7)	1.8 (3)	2.8 (3)	6.7 (9)	45.4 (9)	1.9 (3)	0. (-1)
8	2.9 (70)	5.3 (31)	4.5 (57)	6.5 (11)	5. (42)	26.4 (71)	5.8 (40)	0. (-1)
9	2.2 (112)	6.8 (316)	3.5 (323)	12.1 (328)	4.2 (341)	4789.3 (251)	15. (328)	0. (-1)
10	4. (604)	10.9 (446)	367.9 (417)	36.9 (399)	93.4 (137)	124.9 (217)	18.8 (537)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathemat-ica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
11	7.7 (82)	2.8 (24)	24.7 (55)	2.7 (2)	14.9 (77)	43. (17)	6.6 (50)	0. (-1)
12	1.8 (6)	2.3 (4)	1.2 (8)	1.5 (2)	3.3 (3)	3.4 (3)	1.6 (2)	0. (-1)
13	7.1 (369)	23.8 (1323)	27.7 (1323)	32.9 (1323)	32.9 (1323)	136.1 (671)	34. (1323)	0. (-1)
14	2. (870)	16.5 (1101)	22. (1101)	22.2 (1716)	21.8 (1101)	185.4 (2046)	46.7 (827)	0. (-1)
15	6. (97)	9.6 (110)	12.1 (100)	2.8 (119)	10.8 (21)	49.2 (119)	9.7 (119)	0. (-1)
16	1.2 (7)	1.3 (24)	8.6 (25)	4. (25)	9. (25)	143.6 (25)	19.9 (25)	0. (-1)
17	1.6 (36)	3.1 (47)	23.3 (53)	1.7 (35)	9.6 (59)	5.1 (17)	37. (53)	0. (-1)
18	1.1 (19)	28. (31)	3.7 (9)	0. (-1)	2.4 (3)	0. (-1)	0. (-1)	0. (-1)
19	8.2 (664)	6.9 (663)	5.3 (196)	10. (196)	10. (196)	55.3 (528)	8. (434)	0. (-1)
20	1.4 (211)	8.5 (51)	16.3 (149)	4.4 (73)	16.3 (159)	10.2 (24)	5.9 (69)	0. (-1)
21	1.3 (727)	17.9 (740)	8.3 (1016)	3.1 (313)	15.1 (781)	33.1 (324)	8.6 (553)	0. (-1)
22	1.8 (109)	2.6 (75)	22.5 (55)	1.1 (18)	10.7 (62)	3. (21)	2.9 (98)	0. (-1)
23	1.1 (41)	1.1 (50)	10.4 (15)	2. (15)	7. (15)	53. (15)	13.8 (15)	0. (-1)
24	1.4 (43)	1.9 (45)	2.2 (48)	3.6 (161)	5.2 (26)	51.1 (57)	3.9 (157)	0. (-1)
25	8.4 (2686)	13.4 (2913)	13.7 (2591)	13.2 (2285)	3754.9 (1276)	146.8 (2266)	28.4 (2813)	0. (-1)
26	1.4 (278)	48.2 (336)	7.2 (321)	4. (40)	15.1 (265)	35.2 (379)	6.1 (292)	0. (-1)
27	1.5 (816)	13.6 (1007)	15.7 (498)	29.1 (1063)	41.3 (457)	36.6 (124)	9.8 (1052)	0. (-1)
28	1.1 (46)	0.9 (45)	51. (15)	2.5 (15)	28.4 (15)	890.6 (15)	349.3 (15)	0. (-1)
29	1.3 (221)	3.8 (45)	5. (20)	10. (43)	4003.6 (171)	16. (577)	8.1 (591)	0. (-1)
30	1.4 (363)	10. (328)	12.5 (331)	11.2 (348)	16.3 (197)	23.8 (348)	1757.6 (348)	0. (-1)
31	1.3 (278)	6.4 (283)	4.9 (269)	3.2 (114)	4. (269)	21.6 (269)	6.3 (269)	0. (-1)
32	2.8 (83)	6.2 (127)	2.5 (74)	2.2 (83)	7.2 (127)	16.4 (63)	6.9 (17)	0. (-1)
33	4.3 (680)	13.8 (1256)	96.2 (557)	18.9 (1089)	67.3 (2300)	239.3 (2549)	45. (2354)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
34	2.2 (1471)	7.4 (659)	18.8 (2223)	50.9 (2170)	61.6 (1627)	1537.6 (1013)	136.1 (1464)	0. (-1)
35	7.5 (654)	36.3 (915)	116.1 (801)	6. (579)	68.7 (852)	141.7 (925)	41.5 (751)	0. (-1)
36	1.2 (72)	10.3 (4)	24.3 (108)	2.7 (95)	30.2 (112)	10.5 (104)	92.3 (6)	0. (-1)
37	1.2 (105)	9.5 (35)	14196.2 (12)	6.6 (27)	66. (74)	8.6 (14)	122.1 (25)	0. (-1)
38	1.8 (76)	17.3 (259)	102.6 (278)	89. (278)	89. (278)	232.5 (367)	123.4 (278)	0. (-1)
39	1.7 (636)	8.8 (109)	7. (109)	5.4 (515)	36.3 (1087)	27.8 (1105)	13.7 (885)	0. (-1)
40	2.5 (53)	9.5 (88)	5. (408)	6.5 (88)	63. (268)	55.3 (285)	60.5 (275)	0. (-1)
41	1.7 (264)	30.1 (394)	8.5 (55)	5.6 (70)	71.8 (309)	80.3 (55)	35.3 (309)	0. (-1)
42	1.1 (42)	3.6 (103)	1.7 (103)	1.4 (111)	8719.8 (22)	43. (11)	26.2 (41)	0. (-1)
43	1.5 (136)	1.8 (51)	13.8 (37)	1.6 (131)	4782.7 (22)	119.4 (37)	20.4 (60)	0. (-1)
44	1.9 (1)	2.4 (22)	6.4 (29)	0. (-1)	4.2 (35)	0.8 (1)	2.3 (42)	0. (-1)
45	1.1 (1)	4.9 (4)	0.9 (4)	0. (-1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)
46	2.5 (154)	20. (601)	20.7 (596)	6.3 (609)	46.7 (637)	376.3 (596)	141. (596)	0. (-1)
47	1.4 (31)	25.5 (83)	1.1 (35)	1.8 (68)	29.9 (41)	42.2 (68)	15.3 (37)	0. (-1)
48	1.5 (58)	25.1 (143)	88.8 (96)	88.7 (96)	77.1 (93)	82.9 (93)	73.6 (96)	0. (-1)
49	1.1 (2)	11. (17)	3.1 (16)	2.1 (16)	2.2 (16)	3.2 (11)	3.3 (16)	0. (-1)
50	1.3 (24)	1.7 (99)	4. (72)	1.1 (72)	9.5 (102)	18.1 (72)	12.1 (79)	0. (-1)
51	6.2 (424)	11.6 (162)	23.1 (194)	42.3 (63)	15310.8 (134)	90.8 (255)	66. (122)	0. (-1)
52	4.1 (1017)	21. (871)	146.6 (202)	5.1 (612)	40.5 (871)	163.8 (182)	41.7 (717)	0. (-1)
53	1.4 (95)	1.2 (82)	3.1 (64)	2.2 (2)	2. (81)	2.5 (2)	62.4 (2)	0. (-1)
54	1.6 (18)	1.6 (4)	16. (46)	2.5 (46)	4.6 (58)	3.2 (25)	37.7 (39)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathemat-ica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
55	2.4 (706)	6. (648)	39. (267)	125.2 (267)	28.5 (292)	11.9 (563)	53.7 (563)	0. (-1)
56	1.2 (15)	1.3 (133)	10.6 (99)	4.9 (149)	5. (150)	11. (150)	10.2 (81)	0. (-1)
57	2.1 (71)	3.9 (363)	35.1 (440)	5.1 (348)	21.1 (440)	29.5 (318)	11. (392)	0. (-1)
58	1.6 (215)	12.4 (64)	94.2 (87)	2.9 (166)	10.1 (237)	2.4 (246)	45.6 (187)	0. (-1)
59	1.7 (249)	33.5 (308)	32.9 (156)	7.4 (10)	7.3 (171)	14.2 (7)	56. (66)	0. (-1)
60	1.4 (256)	16.3 (81)	12.5 (213)	79.5 (81)	9.2 (212)	15.3 (114)	17.7 (108)	0. (-1)
61	1.9 (39)	51.5 (68)	5.7 (13)	14.2 (44)	4.5 (15)	4.3 (27)	12.4 (34)	0. (-1)
62	2.6 (133)	9.6 (341)	31.3 (88)	9.1 (340)	8.8 (404)	38.1 (427)	35. (456)	0. (-1)
63	1.8 (503)	38.5 (131)	13.2 (148)	7.4 (390)	33.9 (197)	34.4 (183)	13.8 (45)	0. (-1)
64	1.6 (202)	13.1 (44)	39.2 (172)	10.6 (23)	11.2 (91)	15.9 (189)	15.3 (28)	0. (-1)
65	1.3 (134)	5. (360)	20.1 (387)	3.9 (111)	4.3 (414)	137.4 (62)	5.7 (105)	0. (-1)
66	1.5 (58)	12.7 (250)	10.3 (343)	21.4 (209)	13.1 (209)	29.5 (193)	633.3 (22)	0. (-1)
67	1.1 (21)	3.3 (8)	4.3 (51)	2.4 (21)	5.9 (53)	17.1 (49)	2.4 (5)	0. (-1)
68	2.1 (109)	1.8 (113)	3.4 (27)	21.3 (45)	1.7 (38)	2.2 (12)	69.6 (38)	0. (-1)
69	1.2 (110)	3.3 (203)	7.8 (201)	168.3 (37)	4.7 (44)	23.3 (45)	14. (217)	0. (-1)
70	2.2 (615)	47.7 (617)	9.1 (606)	9. (151)	24.4 (509)	68.3 (344)	248.2 (367)	0. (-1)
71	1.1 (11)	1.1 (10)	1.4 (29)	8.1 (33)	1.1 (10)	3.9 (12)	1.6 (13)	0. (-1)
72	2. (114)	35. (118)	3.1 (17)	4. (53)	7. (201)	2.6 (40)	657.3 (36)	0. (-1)
73	1.9 (621)	315.7 (767)	2501.4 (795)	30.7 (256)	17. (711)	83.8 (470)	32.7 (633)	0. (-1)
74	2.1 (466)	24.9 (1562)	56.7 (174)	8.6 (46)	14.7 (937)	223.9 (697)	424.5 (175)	0. (-1)
75	1.5 (12)	90.6 (42)	619.3 (48)	7.2 (16)	28.8 (35)	3.4 (1)	2.4 (6)	0. (-1)
76	1.3 (249)	9.3 (100)	1717.5 (353)	35.1 (48)	16.5 (327)	66.6 (265)	290.5 (220)	0. (-1)
77	1. (13)	10.5 (13)	2.7 (2)	12.4 (1)	2.3 (2)	412.4 (8)	21.3 (1)	0. (-1)
78	1.5 (32)	2.4 (18)	4.3 (16)	3.3 (20)	2.2 (18)	2.3 (32)	1.3 (16)	0. (-1)
79	1.5 (207)	11.6 (574)	3987.5 (593)	17.6 (487)	3020.2 (254)	9937.7 (81)	544.2 (365)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
80	1.1 (9)	2.2 (2)	1.3 (6)	1.3 (2)	4.6 (1)	11.7 (4)	2.3 (2)	0. (-1)
81	1.2 (18)	1.5 (8)	1.3 (13)	1. (19)	51.7 (13)	2.8 (11)	1.8 (14)	0. (-1)
82	1.2 (60)	3.7 (284)	8.3 (12)	16.5 (170)	4.1 (42)	2.5 (64)	1015. (141)	0. (-1)
83	1.5 (28)	3.5 (187)	8.3 (76)	12.1 (133)	6.9 (33)	4.1 (9)	627.4 (22)	0. (-1)
84	1.1 (21)	2.4 (61)	3.4 (50)	788.2 (7)	6.2 (52)	6. (41)	2. (5)	0. (-1)
85	1.5 (45)	1.3 (94)	4.2 (26)	4.2 (86)	1.4 (87)	6. (61)	4.3 (35)	0. (-1)
86	4.3 (11)	4.1 (60)	5.5 (80)	3.2 (3)	4.2 (32)	35.5 (25)	3.7 (11)	0. (-1)
87	1.1 (11)	1. (10)	1.4 (29)	8.1 (32)	1.1 (10)	3.8 (12)	1.6 (13)	0. (-1)
88	1.5 (16)	3.2 (1)	4.3 (20)	4.1 (3)	4.1 (20)	0. (-1)	3. (3)	0. (-1)
89	1.4 (370)	34.4 (773)	11.4 (763)	6489.4 (123)	7.2 (484)	28.7 (464)	609.3 (219)	0. (-1)
90	1.1 (2)	2.8 (2)	2.4 (2)	0. (-1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)
91	1. (1)	3. (1)	1.3 (1)	3.5 (1)	1.7 (1)	0. (-1)	1.5 (1)	0. (-1)
92	1.3 (496)	36.7 (454)	15.7 (436)	7944.2 (100)	8.1 (279)	77.7 (251)	934. (188)	0. (-1)
93	1.2 (268)	53.3 (393)	10.3 (31)	20.3 (115)	3.4 (319)	9. (35)	1080.9 (91)	0. (-1)
94	1.5 (940)	41.8 (1158)	18.9 (1155)	7808.5 (402)	7.5 (1007)	74.1 (564)	1093.2 (490)	0. (-1)
95	1.5 (71)	2.6 (6)	5.9 (69)	9.4 (53)	3020.2 (79)	1914.1 (31)	3.7 (91)	0. (-1)
96	1.2 (14)	2.1 (9)	2. (17)	1. (2)	15.2 (14)	13.9 (4)	7. (4)	0. (-1)
97	1.2 (11)	1.9 (5)	1.4 (20)	0.8 (11)	51.4 (8)	3.2 (12)	66.7 (8)	0. (-1)
98	1.5 (92)	16.8 (373)	186.8 (52)	1.3 (7)	5. (317)	3. (376)	24.8 (8)	0. (-1)
99	1.3 (1)	4.5 (44)	9.4 (61)	11.2 (49)	4.9 (54)	2.5 (24)	6. (22)	0. (-1)
100	1.1 (21)	2.5 (44)	1.1 (21)	7.9 (52)	4.5 (39)	16.9 (21)	1.7 (21)	0. (-1)
101	1.7 (547)	26.3 (638)	146.8 (620)	19. (393)	8.6 (80)	40. (172)	718. (543)	0. (-1)
102	1.6 (54)	7. (46)	1.8 (42)	2.9 (67)	7.5 (75)	1.3 (2)	324.8 (32)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
103	1.5 (214)	45.1 (676)	10357.7 (510)	141. (1121)	226.9 (1297)	68.3 (1213)	24.2 (1203)	0. (-1)
104	1.4 (207)	3. (178)	15275. (454)	144. (373)	197.8 (463)	42.4 (280)	23. (257)	0. (-1)
105	1.2 (152)	26.8 (109)	123.6 (126)	3. (83)	541.4 (138)	145.8 (74)	35.4 (64)	0. (-1)
106	1.4 (273)	44.6 (159)	1800.7 (350)	18.1 (272)	20.7 (379)	62.9 (245)	776.9 (30)	0. (-1)
107	1.1 (22)	3.4 (21)	31766. (14)	0. (-1)	104.6 (24)	0. (-1)	0. (-1)	0. (-1)
108	1.2 (1)	9.9 (48)	1.6 (2)	1.3 (4)	4.9 (20)	2.6 (1)	4.2 (3)	0. (-1)
109	1.5 (1)	5.6 (42)	9.4 (59)	18.7 (47)	4.9 (59)	2.4 (22)	33.1 (8)	0. (-1)
110	1.9 (15)	2.5 (11)	2.1 (9)	3.3 (11)	4. (7)	1.3 (2)	2.5 (7)	0. (-1)
111	1.7 (13)	2.4 (5)	2.2 (7)	4.3 (7)	3.3 (7)	1.2 (2)	2.7 (6)	0. (-1)
112	1.2 (43)	5.1 (20)	26.7 (102)	1.9 (94)	40.1 (103)	35.7 (93)	2.4 (94)	0. (-1)
113	1.4 (57)	13.4 (37)	8. (30)	22.4 (42)	13. (57)	59.8 (7)	17.1 (37)	0. (-1)
114	1.1 (14)	3.8 (22)	31765.8 (3)	0. (-1)	98.2 (12)	0. (-1)	0. (-1)	0. (-1)
115	1.4 (54)	4.7 (42)	13.1 (269)	25.9 (47)	5.7 (42)	3.3 (1)	11.7 (42)	0. (-1)
116	1. (1)	13.2 (39)	4.1 (29)	14.9 (16)	5.1 (6)	0. (-1)	5.7 (18)	0. (-1)
117	1.2 (68)	3.2 (18)	5.6 (73)	120.4 (20)	4.5 (68)	2.2 (53)	4.2 (20)	0. (-1)
118	2.1 (819)	251.5 (874)	17.6 (578)	1460.2 (263)	7. (515)	2.6 (5)	5.8 (513)	0. (-1)
119	1.6 (140)	45.2 (153)	6.5 (290)	2.9 (65)	5.8 (227)	0. (-1)	7. (196)	0. (-1)
120	1.7 (340)	19.3 (232)	27. (339)	3.7 (67)	34.3 (339)	13.1 (90)	7.1 (286)	0. (-1)
121	1.4 (83)	104.2 (207)	265.8 (153)	37.5 (109)	8.8 (159)	0. (-1)	5.1 (197)	0. (-1)
122	2.5 (212)	227.9 (265)	7. (238)	43.2 (130)	15.3 (263)	3. (170)	4.3 (256)	0. (-1)
123	1.4 (346)	462.7 (634)	19.2 (391)	1629.1 (267)	8.2 (336)	2.2 (47)	6.9 (335)	0. (-1)
124	1.1 (48)	5.1 (25)	11.2 (19)	13.5 (25)	2.6 (58)	2.9 (33)	2.7 (41)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathemat-ica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
125	1.4 (930)	582.4 (1351)	24. (971)	2062.5 (624)	7.8 (923)	3. (930)	7.5 (922)	0. (-1)
126	1.4 (321)	66.8 (138)	367.6 (432)	58. (256)	27.3 (461)	6. (459)	15. (389)	0. (-1)
127	1.4 (54)	5.6 (42)	6.9 (21)	33.4 (39)	3.8 (42)	3.1 (1)	3.1 (41)	0. (-1)
128	1.3 (27)	4.2 (25)	5. (83)	39.4 (15)	4.6 (69)	2.3 (53)	2.9 (61)	0. (-1)
129	1.3 (50)	5.3 (36)	11. (18)	6.4 (13)	7.8 (20)	0. (-1)	13.6 (15)	0. (-1)
130	1.5 (15)	2.5 (8)	2. (9)	4.9 (8)	3.7 (14)	0. (-1)	2.2 (8)	0. (-1)
131	1.3 (20)	3.3 (10)	1.9 (5)	3.5 (1)	5. (22)	0. (-1)	2.2 (10)	0. (-1)
132	1.3 (6)	2.7 (3)	2.1 (8)	2.5 (8)	2.3 (9)	4.9 (18)	3.3 (12)	0. (-1)
133	1. (1)	1.2 (1)	1.8 (1)	0. (-1)	1.4 (1)	0. (-1)	0. (-1)	0. (-1)
134	1.2 (7)	3.1 (18)	26.9 (15)	39.7 (11)	16.6 (11)	0. (-1)	24.5 (11)	0. (-1)
135	1.3 (186)	29.1 (187)	5281024.1 (170)	85. (57)	7.2 (231)	6948.3 (39)	558.9 (93)	0. (-1)
136	3.3 (23)	25.2 (272)	4.6 (211)	9.5 (209)	8.5 (143)	35.6 (18)	406.5 (236)	0. (-1)
137	1.8 (299)	9.5 (164)	9.4 (331)	58.8 (171)	13.9 (273)	10.3 (396)	6002.2 (153)	0. (-1)
138	1. (1)	2.7 (1)	6.9 (9)	0.4 (5)	12. (4)	1.1 (5)	0.7 (5)	0. (-1)
139	4.3 (259)	7.9 (276)	8.4 (1)	90.9 (225)	4. (236)	5.6 (18)	2097.9 (70)	0. (-1)
140	19.2 (34)	9.1 (133)	1.8 (70)	81.3 (34)	4.2 (63)	16.2 (43)	264.4 (31)	0. (-1)
141	10.8 (759)	718.9 (434)	638.5 (860)	418.5 (198)	27.7 (503)	4789.3 (480)	5737. (605)	0. (-1)
142	1.8 (32)	2.5 (95)	4.3 (156)	1.7 (155)	1.8 (7)	2.3 (11)	9.9 (145)	0. (-1)
143	2.4 (175)	3.9 (33)	19.9 (90)	3.3 (195)	6. (642)	2.9 (413)	56.7 (620)	0. (-1)
144	1.7 (147)	11.3 (469)	14. (55)	12.1 (177)	9.2 (104)	8.1 (206)	15.5 (255)	0. (-1)
145	1.8 (32)	4.9 (41)	2.6 (156)	1.8 (155)	3. (7)	2.3 (11)	26.4 (147)	0. (-1)
146	1.3 (15)	2. (5)	2.8 (5)	2.4 (11)	5.1 (33)	2. (23)	36.3 (23)	0. (-1)
147	1.3 (25)	11. (114)	3.3 (18)	2.4 (24)	5.7 (29)	2. (58)	4.6 (80)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
148	2.1 (24)	4. (83)	114.6 (118)	1.5 (165)	2.3 (105)	7.5 (105)	1.9 (134)	0. (-1)
149	1.1 (11)	3.6 (25)	43. (20)	1.8 (8)	7555.1 (24)	44.7 (8)	1.2 (21)	0. (-1)
150	6.7 (315)	6.4 (429)	80.4 (146)	4.8 (218)	9.9 (1223)	4.3 (197)	2.4 (1279)	0. (-1)
151	1.3 (41)	3.3 (36)	24.5 (37)	26.3 (61)	3. (30)	9.5 (12)	1. (27)	0. (-1)
152	1.9 (344)	2.7 (248)	12.5 (56)	9.5 (180)	10. (375)	11.6 (375)	7.9 (375)	0. (-1)
153	1.4 (50)	11.4 (54)	27.1 (147)	5.4 (67)	5.6 (50)	13.1 (131)	5.8 (125)	0. (-1)
154	2.3 (23)	11.4 (164)	28.2 (31)	13.3 (107)	6.8 (64)	5.9 (106)	27.1 (135)	0. (-1)
155	1.1 (7)	1.2 (7)	1. (2)	1. (2)	1.1 (5)	2.7 (4)	1.1 (2)	0. (-1)
156	1.4 (8)	2.7 (107)	6. (105)	3.4 (31)	8.7 (151)	2.5 (12)	84.8 (69)	0. (-1)
157	1.3 (23)	12.7 (22)	2.9 (26)	1.7 (14)	4. (24)	2.7 (8)	2.6 (2)	0. (-1)
158	1.4 (8)	3. (114)	6. (112)	1.9 (22)	8.7 (156)	2.6 (12)	27.3 (91)	0. (-1)
159	1.3 (26)	13. (21)	3.3 (26)	1.6 (13)	4. (23)	2.7 (8)	3.5 (26)	0. (-1)
160	1.5 (178)	10.9 (193)	7.5 (379)	3.7 (327)	23.9 (496)	24.6 (231)	8.7 (6)	0. (-1)
161	1.4 (36)	2.1 (3)	3.4 (98)	12.9 (90)	6.6 (20)	1.9 (10)	6.9 (29)	0. (-1)
162	1.8 (11)	1.5 (24)	1.8 (28)	6. (7)	5.4 (21)	0. (-1)	1.1 (7)	0. (-1)
163	1.7 (312)	8.7 (365)	7.3 (126)	21.3 (134)	32.5 (87)	26.4 (102)	25.9 (273)	0. (-1)
164	1.9 (61)	9.9 (394)	4.6 (90)	21.9 (315)	2699.3 (269)	9185.8 (34)	23.5 (81)	0. (-1)
165	1.5 (16)	13.6 (173)	3.4 (15)	3.6 (1)	16.2 (36)	4.1 (8)	8.7 (6)	0. (-1)
166	2.1 (109)	1.8 (38)	8. (107)	3.5 (5)	4.3 (108)	2.3 (12)	18. (32)	0. (-1)
167	1.3 (29)	2.1 (3)	3.4 (64)	12.9 (56)	6.6 (20)	1.9 (10)	5.2 (25)	0. (-1)
168	1.8 (11)	1.5 (12)	1.8 (28)	6. (7)	5.4 (21)	0. (-1)	1.1 (7)	0. (-1)
169	1.4 (185)	8.7 (328)	6.8 (10)	11.4 (196)	40.1 (177)	53.6 (55)	25.9 (246)	0. (-1)
170	1.9 (39)	2.5 (11)	3.4 (42)	7.4 (13)	2966.3 (69)	1913.7 (26)	16.8 (61)	0. (-1)
171	1.3 (2)	3.6 (63)	5.5 (68)	3.2 (8)	23.5 (11)	1.7 (8)	3.2 (8)	0. (-1)
172	2. (73)	4.1 (73)	4.1 (144)	12.6 (188)	65.9 (200)	98.5 (64)	4.2 (102)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
173	1.6 (139)	10.5 (254)	7.5 (221)	23.3 (190)	178.8 (253)	7.3 (171)	13. (219)	0. (-1)
174	1.7 (2)	3.7 (47)	5.8 (37)	3.7 (8)	20. (47)	11.7 (27)	3.2 (8)	0. (-1)
175	2.4 (109)	6.4 (113)	6.2 (35)	13. (193)	66.3 (205)	11.6 (148)	5.9 (29)	0. (-1)
176	1.3 (46)	10.3 (47)	7.5 (24)	6.3 (10)	177.8 (46)	5.5 (5)	13. (45)	0. (-1)
177	1.3 (6)	1.9 (1)	2.9 (5)	2.5 (7)	16.2 (9)	0. (-1)	2.7 (7)	0. (-1)
178	1.2 (69)	2.8 (80)	3.6 (79)	2. (15)	22.6 (82)	1.5 (5)	2. (31)	0. (-1)
179	3.5 (186)	10.9 (185)	11.8 (27)	8.6 (59)	168.4 (146)	2.3 (191)	5.4 (186)	0. (-1)
180	1.4 (108)	14.4 (168)	8.8 (48)	21.9 (158)	170.3 (218)	5. (142)	6.4 (219)	0. (-1)
181	1.4 (6)	8.6 (26)	4.6 (5)	3.1 (7)	15.7 (9)	0. (-1)	2.8 (7)	0. (-1)
182	1.3 (15)	4.7 (82)	3.9 (78)	2.3 (15)	28.8 (15)	1.4 (5)	1.9 (5)	0. (-1)
183	3.3 (160)	10. (24)	22.3 (24)	6.3 (24)	33.8 (124)	2.1 (165)	9. (24)	0. (-1)
184	1.2 (7)	3.4 (24)	5.6 (18)	6.2 (1)	96.8 (15)	0. (-1)	8.8 (22)	0. (-1)
185	2.9 (221)	515.8 (777)	140.9 (767)	26. (100)	105. (745)	138.5 (810)	12.2 (11)	0. (-1)
186	1.8 (32)	1.9 (141)	2.7 (38)	1.4 (15)	3.3 (7)	1. (22)	2.3 (19)	0. (-1)
187	2.4 (217)	3.5 (230)	9.1 (104)	3.5 (219)	6. (651)	3.6 (255)	2.6 (118)	0. (-1)
188	1.5 (199)	7.3 (368)	4.9 (357)	12.3 (115)	5.3 (11)	8.2 (147)	8.4 (115)	0. (-1)
189	1.8 (32)	3.2 (39)	2.3 (18)	1.2 (135)	2. (7)	0. (-1)	2. (19)	0. (-1)
190	1.8 (369)	11.8 (176)	17.2 (93)	2.6 (22)	7. (508)	0. (-1)	2.2 (528)	0. (-1)
191	1.4 (235)	5.7 (49)	15. (291)	9.2 (93)	9.7 (20)	2.8 (278)	6.3 (93)	0. (-1)
192	2.5 (202)	3. (220)	43.8 (156)	5.3 (202)	11.3 (216)	30.9 (63)	7.5 (1)	0. (-1)
193	1.6 (21)	7.9 (18)	54.2 (20)	2.3 (40)	31.4 (35)	62.6 (8)	10.6 (1)	0. (-1)
194	3.3 (439)	5.6 (156)	71.1 (235)	16.1 (244)	7.1 (516)	4.5 (307)	6.7 (15)	0. (-1)
195	1.4 (52)	17.8 (42)	31.6 (46)	5.2 (15)	5. (37)	118.9 (37)	15.4 (37)	0. (-1)
196	2.3 (868)	3.7 (868)	14.5 (220)	18.3 (1152)	12.2 (1368)	31. (997)	9.7 (1368)	0. (-1)
197	2.1 (81)	8.2 (323)	22.2 (318)	4.3 (72)	6.3 (315)	7.8 (276)	7.6 (133)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupad
198	2.3 (23)	8.3 (112)	1614.5 (159)	3.9 (95)	7.1 (47)	118.9 (108)	15.3 (108)	0. (-1)
199	1.9 (172)	4.9 (430)	8. (54)	3.5 (37)	3.8 (467)	15.5 (446)	5.1 (235)	0. (-1)
200	1.4 (7)	16.3 (85)	7.9 (124)	1.4 (47)	8.9 (168)	1.5 (35)	0. (-1)	0. (-1)
201	2.9 (38)	25.8 (18)	40.2 (80)	1. (34)	9.3 (6)	2. (38)	3.3 (47)	0. (-1)
202	5.3 (71)	3.2 (114)	5.8 (75)	2.1 (10)	9.7 (156)	1.2 (9)	0. (-1)	0. (-1)
203	1.5 (31)	8.2 (13)	5.2 (66)	2.7 (31)	7.3 (71)	2.3 (54)	3.1 (54)	0. (-1)
204	1.8 (283)	1.6 (138)	2.1 (190)	1.1 (31)	2. (140)	2.7 (221)	1.6 (18)	0. (-1)
205	2. (181)	2.5 (57)	1.5 (92)	3.3 (136)	2.5 (60)	2. (179)	0. (-1)	0. (-1)
206	1.8 (52)	1.8 (35)	3.4 (134)	4.4 (88)	5.7 (117)	7.8 (69)	557.1 (66)	0. (-1)
207	1.7 (45)	1.8 (35)	1.2 (7)	0. (-1)	0. (-1)	9.1 (69)	0. (-1)	0. (-1)
208	1.4 (161)	1.3 (153)	2.4 (41)	4.1 (155)	2.7 (28)	4.9 (30)	0. (-1)	0. (-1)
209	88.4 (910)	650.2 (1384)	183783.9 (2420)	6.9 (1028)	14782.7 (2646)	20.4 (315)	31. (1760)	0. (-1)
210	250.6 (1075)	5941.5 (2439)	6816.7 (2524)	152.4 (703)	145.9 (2571)	164.5 (2571)	4761.5 (2727)	0. (-1)
211	265. (1928)	5645.2 (2956)	1580.6 (1154)	430.8 (948)	78.3 (2418)	52.7 (2449)	39084.8 (2246)	0. (-1)
212	130.3 (400)	21182. (1738)	767.1 (1263)	1205. (99)	126.2 (731)	363.2 (2409)	1134. (1195)	0. (-1)
213	430.4 (1124)	38.9 (1117)	892063.8 (1190)	205.3 (735)	25.6 (735)	37. (735)	395.1 (755)	0. (-1)
214	66.8 (46)	527.7 (105)	439.4 (227)	439.4 (227)	21.8 (64)	522.8 (105)	573.4 (258)	0. (-1)
215	3.2 (77)	10. (17)	2.5 (9)	6.5 (16)	10. (23)	23.3 (162)	12.5 (18)	0. (-1)
216	2.9 (6)	1. (1)	11.2 (9)	1.4 (1)	1.2 (8)	0.7 (2)	0. (-1)	0. (-1)

1.11 Pass/Fail per test file for each CAS system

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

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

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
1	175	0	175	0	173	2	166	9	174	1	165	10	170	5	169	6
2	33	2	34	1	28	7	16	19	25	10	9	26	17	18	9	26
3	13	1	14	0	12	2	8	6	13	1	9	5	10	4	11	3
4	48	2	50	0	33	17	26	24	50	0	19	31	41	9	12	38
5	279	5	284	0	282	2	251	33	281	3	254	30	269	15	270	14
6	3	4	7	0	5	2	3	4	7	0	5	2	5	2	7	0
7	7	2	9	0	9	0	7	2	9	0	5	4	9	0	9	0
8	113	0	113	0	113	0	111	2	112	1	107	6	111	2	106	7
9	376	0	376	0	376	0	374	2	376	0	363	13	375	1	372	4
10	704	1	705	0	656	49	565	140	662	43	460	245	590	115	542	163
11	110	6	102	14	88	28	20	96	90	26	29	87	36	80	37	79
12	8	0	8	0	8	0	7	1	8	0	8	0	8	0	8	0
13	1917	0	1917	0	1565	352	1328	589	1603	314	1225	692	1380	537	1241	676
14	3200	1	3201	0	2870	331	2042	1159	2932	269	1657	1544	2442	759	1884	1317
15	158	1	154	5	128	31	39	120	69	90	30	129	45	114	49	110
16	34	0	34	0	28	6	16	18	28	6	19	15	28	6	4	30
17	78	0	78	0	78	0	27	51	64	14	4	74	48	30	39	39
18	35	0	35	0	35	0	0	35	9	26	0	35	0	35	0	35
19	1071	0	1071	0	785	286	632	439	732	339	1024	47	616	455	695	376
20	349	0	349	0	264	85	79	270	277	72	103	246	106	243	66	283
21	1156	0	1156	0	1048	108	682	474	984	172	631	525	822	334	730	426
22	114	1	114	1	107	8	15	100	68	47	26	89	31	84	27	88
23	48	3	51	0	14	37	14	37	14	37	28	23	14	37	14	37
24	174	0	174	0	170	4	170	4	170	4	154	20	166	8	129	45
25	3078	0	3059	19	2685	393	2196	882	2630	448	2888	190	2051	1027	2228	850
26	385	0	383	2	255	130	166	219	218	167	144	241	130	255	170	215
27	1081	0	1081	0	911	170	391	690	813	268	406	675	571	510	531	550
28	46	0	46	0	12	34	12	34	12	34	23	23	12	34	12	34
29	594	0	594	0	577	17	415	179	538	56	430	164	420	174	449	145
30	454	0	454	0	386	68	153	301	325	129	125	329	261	193	193	261
31	298	0	296	2	275	23	212	86	277	21	138	160	227	71	197	101
32	143	0	143	0	113	30	108	35	113	30	101	42	111	32	132	11
33	2589	1	2580	10	2324	266	1392	1198	2325	265	1120	1470	1980	610	1589	1001

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Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
34	2627	19	2646	0	2584	62	1715	931	2563	83	1365	1281	2272	374	1685	961
35	957	1	942	16	728	230	312	646	659	299	265	693	475	483	276	682
36	122	1	123	0	121	2	67	56	111	12	67	56	90	33	53	70
37	138	5	143	0	140	3	15	128	83	60	12	131	53	90	19	124
38	400	0	394	6	357	43	291	109	352	48	189	211	351	49	195	205
39	1126	0	1126	0	1061	65	687	439	1059	67	441	685	822	304	695	431
40	412	1	405	8	399	14	77	336	331	82	187	226	182	231	184	229
41	410	3	406	7	376	37	144	269	329	84	131	282	259	154	218	195
42	111	0	111	0	111	0	83	28	93	18	45	66	106	5	106	5
43	145	0	145	0	143	2	73	72	125	20	80	65	143	2	143	2
44	42	0	40	2	40	2	0	42	26	16	6	36	6	36	1	41
45	4	0	4	0	4	0	0	4	0	4	0	4	0	4	0	4
46	664	0	662	2	496	168	302	362	535	129	254	410	436	228	360	304
47	96	0	92	4	49	47	17	79	49	47	42	54	37	59	49	47
48	156	0	147	9	137	19	66	90	129	27	78	78	110	46	122	34
49	17	0	17	0	3	14	2	15	7	10	2	15	4	13	5	12
50	140	0	139	1	136	4	24	116	135	5	47	93	109	31	72	68
51	491	3	494	0	489	5	408	86	456	38	436	58	426	68	485	9
52	1019	6	1009	16	844	181	359	666	838	187	322	703	519	506	455	570
53	98	0	98	0	78	20	64	34	93	5	38	60	56	42	58	40
54	93	0	85	8	81	12	78	15	93	0	51	42	54	39	53	40
55	763	7	752	18	634	136	499	271	687	83	372	398	369	401	576	194
56	193	0	193	0	121	72	106	87	123	70	79	114	102	91	60	133
57	456	0	449	7	333	123	225	231	280	176	283	173	190	266	146	310
58	249	0	243	6	139	110	68	181	90	159	47	202	58	191	46	203
59	314	0	301	13	224	90	238	76	210	104	114	200	191	123	200	114
60	263	0	249	14	161	102	180	83	156	107	54	209	125	138	127	136
61	106	2	107	1	45	63	68	40	41	67	20	88	36	72	35	73
62	543	4	543	4	344	203	222	325	221	326	166	381	216	331	209	338
63	640	1	604	37	418	223	338	303	393	248	197	444	351	290	326	315
64	314	0	314	0	267	47	220	94	279	35	133	181	188	126	183	131
65	538	0	538	0	446	92	242	296	439	99	102	436	213	325	248	290
66	331	17	347	1	264	84	203	145	314	34	116	232	183	165	143	205
67	72	0	72	0	47	25	32	40	47	25	32	40	39	33	36	36
68	113	0	113	0	113	0	53	60	113	0	26	87	71	42	20	93
69	357	0	349	8	245	112	270	87	305	52	112	245	183	174	129	228
70	652	1	638	15	569	84	287	366	533	120	108	545	314	339	258	395
71	36	0	36	0	34	2	34	2	36	0	20	16	34	2	16	20
72	206	2	201	7	178	30	141	67	178	30	5	203	156	52	154	54
73	834	3	795	42	640	197	217	620	580	257	165	672	482	355	344	493
74	1549	14	1512	51	1416	147	982	581	1295	268	242	1321	1217	346	1131	432
75	51	0	47	4	50	1	16	35	31	20	4	47	20	31	13	38

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Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
76	356	2	333	25	296	62	133	225	275	83	102	256	288	70	178	180
77	19	0	15	4	13	6	13	6	13	6	8	11	13	6	13	6
78	34	0	18	16	5	29	7	27	9	25	1	33	3	31	9	25
79	592	2	580	14	523	71	332	262	481	113	78	516	311	283	334	260
80	9	0	9	0	9	0	2	7	9	0	5	4	9	0	9	0
81	19	0	19	0	19	0	5	14	18	1	6	13	9	10	19	0
82	294	0	294	0	196	98	92	202	197	97	18	276	39	255	80	214
83	189	0	189	0	135	54	140	49	137	52	55	134	112	77	74	115
84	62	0	62	0	45	17	39	23	45	17	32	30	39	23	35	27
85	99	0	99	0	87	12	69	30	91	8	34	65	52	47	30	69
86	88	0	88	0	88	0	27	61	57	31	23	65	32	56	34	54
87	34	0	34	0	32	2	32	2	34	0	18	16	32	2	15	19
88	22	0	22	0	22	0	17	5	21	1	1	21	21	1	18	4
89	932	0	929	3	854	78	325	607	675	257	101	831	281	651	310	622
90	4	0	4	0	4	0	0	4	0	4	0	4	0	4	0	4
91	1	0	1	0	1	0	1	0	1	0	0	1	1	0	1	0
92	644	0	635	9	629	15	209	435	470	174	69	575	210	434	231	413
93	392	1	389	4	238	155	119	274	238	155	15	378	26	367	75	318
94	1541	0	1534	7	1508	33	499	1042	1161	380	126	1415	540	1001	629	912
95	98	0	98	0	96	2	70	28	85	13	19	79	76	22	67	31
96	21	0	21	0	21	0	2	19	18	3	6	15	19	2	19	2
97	20	0	20	0	20	0	4	16	19	1	5	15	20	0	20	0
98	387	0	387	0	267	120	137	250	241	146	18	369	82	305	122	265
99	62	1	63	0	58	5	49	14	63	0	28	35	35	28	32	31
100	66	0	66	0	36	30	61	5	48	18	35	31	36	30	38	28
101	700	0	700	0	571	129	405	295	573	127	124	576	258	442	369	331
102	91	0	90	1	83	8	79	12	83	8	8	83	82	9	83	8
103	1321	7	1253	75	1103	225	575	753	1164	164	295	1033	457	871	835	493
104	855	0	819	36	783	72	428	427	783	72	209	646	271	584	528	327
105	167	4	169	2	122	49	84	87	113	58	63	108	84	87	103	68
106	499	0	497	2	412	87	269	230	414	85	99	400	280	219	283	216
107	45	6	51	0	33	18	0	51	42	9	0	51	0	51	0	51
108	52	0	52	0	37	15	37	15	37	15	8	44	15	37	26	26
109	61	0	61	0	58	3	49	12	61	0	28	33	35	26	28	33
110	23	0	23	0	23	0	19	4	23	0	6	17	23	0	23	0
111	19	0	19	0	19	0	15	4	19	0	4	15	19	0	19	0
112	106	0	105	1	103	3	3	103	103	3	2	104	3	103	103	3
113	64	0	64	0	63	1	23	41	64	0	11	53	54	10	39	25
114	28	4	32	0	20	12	0	32	32	0	0	32	0	32	0	32
115	299	0	299	0	227	72	93	206	218	81	29	270	39	260	78	221
116	46	0	46	0	42	4	36	10	46	0	20	26	24	22	24	22
117	83	0	79	4	51	32	48	35	63	20	37	46	43	40	47	36

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Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
118	878	1	867	12	735	144	323	556	609	270	51	828	243	636	323	556
119	301	5	306	0	267	39	175	131	243	63	8	298	191	115	193	113
120	359	6	345	20	331	34	189	176	260	105	40	325	220	145	181	184
121	240	1	234	7	218	23	98	143	147	94	6	235	76	165	56	185
122	286	0	282	4	267	19	166	120	238	48	1	285	202	84	191	95
123	628	6	634	0	582	52	214	420	458	176	8	626	183	451	195	439
124	70	0	70	0	70	0	48	22	70	0	3	67	46	24	49	21
125	1361	12	1341	32	1250	123	511	862	1036	337	11	1362	462	911	552	821
126	468	2	438	32	431	39	290	180	416	54	22	448	250	220	243	227
127	70	0	70	0	53	17	28	42	53	17	9	61	28	42	16	54
128	84	0	80	4	52	32	51	33	64	20	37	47	44	40	47	37
129	59	0	53	6	41	18	25	34	41	18	3	56	40	19	33	26
130	16	0	16	0	16	0	12	4	16	0	0	16	16	0	16	0
131	23	0	23	0	23	0	18	5	23	0	0	23	23	0	23	0
132	24	0	24	0	24	0	24	0	24	0	9	15	24	0	24	0
133	1	0	1	0	1	0	0	1	1	0	0	1	0	1	0	1
134	27	0	27	0	27	0	18	9	27	0	0	27	21	6	8	19
135	254	0	252	2	226	28	159	95	221	33	68	186	161	93	169	85
136	291	3	294	0	290	4	271	23	290	4	68	226	281	13	290	4
137	395	2	397	0	359	38	341	56	362	35	121	276	245	152	155	242
138	9	0	9	0	9	0	1	8	9	0	1	8	1	8	1	8
139	330	0	305	25	148	182	141	189	183	147	69	261	90	240	149	181
140	140	2	142	0	114	28	114	28	115	27	43	99	63	79	50	92
141	944	6	946	4	902	48	656	294	912	38	434	516	725	225	700	250
142	227	0	227	0	217	10	75	152	85	142	101	126	163	64	75	152
143	700	3	698	5	555	148	253	450	265	438	209	494	238	465	146	557
144	471	3	466	8	378	96	115	359	206	268	161	313	252	222	89	385
145	227	0	223	4	215	12	75	152	85	142	101	126	163	64	73	154
146	33	0	33	0	30	3	12	21	15	18	11	22	15	18	3	30
147	118	0	113	5	78	40	31	87	51	67	34	84	57	61	22	96
148	166	0	163	3	151	15	93	73	92	74	96	70	85	81	108	58
149	31	0	27	4	30	1	14	17	12	19	11	20	6	25	14	17
150	1284	17	1280	21	1198	103	407	894	565	736	580	721	457	844	754	547
151	70	0	67	3	69	1	37	33	28	42	23	47	9	61	30	40
152	385	0	368	17	203	182	134	251	286	99	91	294	117	268	147	238
153	153	0	151	2	134	19	87	66	143	10	51	102	59	94	55	98
154	234	0	228	6	228	6	143	91	168	66	81	153	111	123	108	126
155	12	0	12	0	6	6	1	11	6	6	3	9	1	11	6	6
156	174	0	174	0	139	35	62	112	124	50	70	104	97	77	53	121
157	50	0	49	1	37	13	18	32	28	22	13	37	27	23	10	40
158	178	0	178	0	147	31	63	115	123	55	67	111	94	84	57	121
159	49	0	49	0	36	13	15	34	27	22	12	37	25	24	12	37

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Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
160	448	54	496	6	340	162	289	213	465	37	120	382	198	304	209	293
161	102	0	102	0	80	22	84	18	78	24	32	70	54	48	29	73
162	33	0	33	0	31	2	31	2	33	0	9	24	31	2	9	24
163	369	0	369	0	330	39	266	103	353	16	122	247	279	90	221	148
164	525	0	501	24	486	39	196	329	445	80	77	448	232	293	247	278
165	183	0	182	1	111	72	143	40	150	33	62	121	103	80	70	113
166	111	0	111	0	111	0	64	47	111	0	26	85	71	40	20	91
167	68	0	68	0	58	10	62	6	60	8	24	44	43	25	21	47
168	33	0	33	0	31	2	31	2	33	0	9	24	31	2	9	24
169	336	0	336	0	308	28	208	128	325	11	109	227	259	77	190	146
170	85	0	83	2	83	2	34	51	76	9	18	67	41	44	55	30
171	77	0	72	5	69	8	63	14	64	13	30	47	45	32	39	38
172	247	0	247	0	205	42	151	96	209	38	72	175	186	61	175	72
173	263	0	263	0	249	14	177	86	263	0	40	223	200	63	185	78
174	61	0	61	0	58	3	55	6	61	0	28	33	35	26	28	33
175	224	0	224	0	165	59	105	119	179	45	34	190	131	93	131	93
176	53	0	53	0	43	10	16	37	53	0	7	46	35	18	32	21
177	16	0	16	0	8	8	5	11	12	4	3	13	4	12	4	12
178	84	0	80	4	50	34	39	45	62	22	36	48	44	40	47	37
179	201	0	192	9	140	61	90	111	183	18	14	187	116	85	94	107
180	220	0	220	0	180	40	147	73	220	0	10	210	102	118	121	99
181	27	2	29	0	19	10	13	16	25	4	4	25	8	21	8	21
182	83	0	78	5	49	34	55	28	62	21	36	47	43	40	47	36
183	174	1	175	0	136	39	109	66	169	6	3	172	107	68	91	84
184	27	0	27	0	14	13	10	17	27	0	0	27	16	11	5	22
185	1050	9	1055	4	939	120	762	297	992	67	344	715	812	247	740	319
186	156	0	156	0	109	47	51	105	43	113	48	108	36	120	30	126
187	659	4	656	7	506	157	255	408	241	422	199	464	95	568	133	530
188	369	2	370	1	249	122	100	271	158	213	101	270	98	273	78	293
189	166	0	160	6	120	46	57	109	52	114	25	141	39	127	32	134
190	564	5	559	10	476	93	239	330	237	332	93	476	106	463	144	425
191	295	1	290	6	197	99	69	227	130	166	40	256	81	215	64	232
192	243	0	231	12	206	37	154	89	147	96	84	159	127	116	128	115
193	49	0	48	1	48	1	29	20	17	32	10	39	17	32	17	32
194	538	0	535	3	509	29	270	268	259	279	145	393	177	361	175	363
195	62	0	60	2	61	1	34	28	17	45	16	46	17	45	17	45
196	1378	0	1353	25	1100	278	620	758	1118	260	456	922	667	711	698	680
197	361	0	359	2	342	19	268	93	350	11	99	262	261	100	239	122
198	300	0	294	6	273	27	246	54	223	77	108	192	152	148	153	147
199	916	19	914	21	784	151	505	430	841	94	194	741	444	491	518	417
200	190	0	190	0	154	36	63	127	130	60	49	141	45	145	52	138
201	100	0	99	1	83	17	21	79	73	27	3	97	4	96	56	44

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Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
202	178	0	178	0	103	75	61	117	123	55	38	140	46	132	49	129
203	71	0	70	1	53	18	42	29	53	18	36	35	32	39	41	30
204	311	0	300	11	188	123	140	171	258	53	198	113	131	180	203	108
205	206	12	190	28	154	64	120	98	190	28	118	100	60	158	60	158
206	136	0	134	2	118	18	57	79	126	10	52	84	71	65	34	102
207	135	1	136	0	104	32	34	102	34	102	52	84	34	102	34	102
208	198	0	195	3	152	46	127	71	104	94	47	151	16	182	70	128
209	1998	1156	2972	182	2634	520	1270	1884	2325	829	1125	2029	1305	1849	1501	1653
210	1890	1110	2903	97	2976	24	2801	199	2991	9	2840	160	2640	360	2718	282
211	1865	1135	2909	91	2969	31	2805	195	2991	9	2839	161	2650	350	2688	312
212	1867	1133	2889	111	2978	22	2793	207	2995	5	2838	162	2615	385	2697	303
213	842	493	1298	37	1331	4	1233	102	1333	2	1275	60	1163	172	1209	126
214	304	17	319	2	306	15	297	24	309	12	265	56	295	26	289	32
215	163	0	163	0	159	4	151	12	163	0	148	15	163	0	151	12
216	8	7	11	4	15	0	2	13	14	1	2	13	0	15	1	14

1.12 Timing

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

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

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

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

1.13 Verification

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

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

1.14 Important notes about some of the results

1.14.1 Important note about Maxima results

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

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

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

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

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

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

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

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

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

1.14.2 Important note about FriCAS result

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

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

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

1.14.3 Important note about finding leaf size of antiderivative

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

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

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

```
return 1 + sum(tree_size(a) for a in aa)
```

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

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

except Exception as ee:
    leafCount = 1
```

1.14.4 Important note about Mupad results

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

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

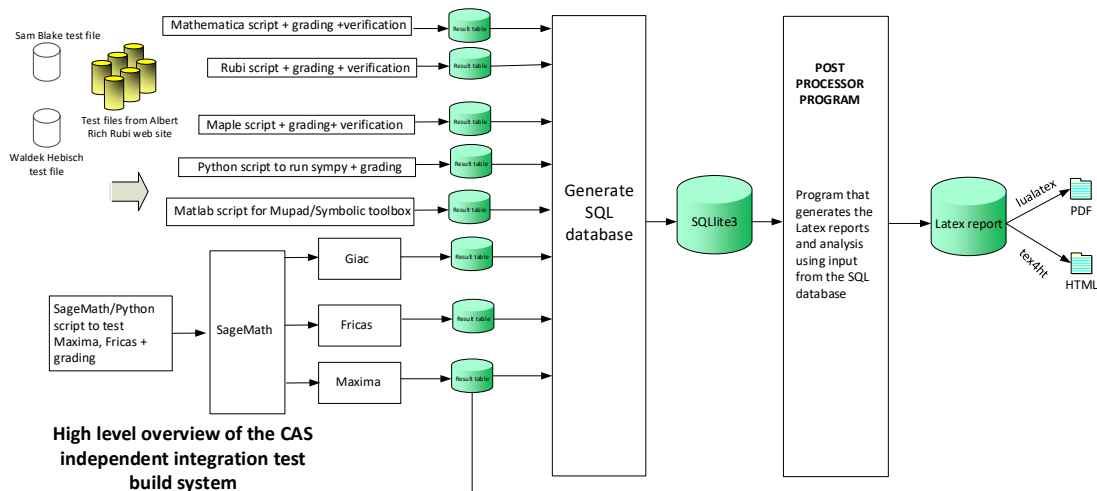
The following is an example of using Matlab's symbolic toolbox (Mupad) to solve an integral

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

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

1.15 Design of the test system

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



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

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

The following fields are present only in Rubi Table file

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

Nasser M. Abbasi
June 27, 2023
Design.v2.0

CHAPTER 2

INTEGRALS WHICH GENERATED AN EXCEPTION FOR EACH CAS

2.1	Fricas Exceptions	44
2.2	Maxima Exceptions	1014
2.3	Giac Exceptions	4234
2.4	Sympy Exceptions	5902

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

2.1 Fricas Exceptions

Percentage of integrals which generated an exception is 2.346 %

2.1.1 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 0_Independent_test_suites/Bondarenko_Problems.txt

Test file number 2

Integral number in file 7

2.1.2 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 0_Independent_test_suites/Bondarenko_Problems.txt

Test file number 2

Integral number in file 8

2.1.3 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 0_Independent_test_suites/Bronstein_Problems.txt

Test file number 3

Integral number in file 10

2.1.4 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 329

2.1.5 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 417

2.1.6 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: Curve not irreducible after change of variable 0 -> infinity
```

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 446

2.1.7 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 543

2.1.8 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 38

2.1.9 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 46

2.1.10 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 53

2.1.11 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 54

2.1.12 Fricas [F(-2)]

Exception generated.

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

[In] integrate((-x^3+1)^(1/3)/(1+x),x, algorithm="fricas")

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

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 58

2.1.13 Fricas [F(-2)]

Exception generated.

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

[In] integrate((-x^3+1)^(1/3)/(2+x),x, algorithm="fricas")

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

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 60

2.1.14 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code:  catde
f: division by zero
```

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 84

2.1.15 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (residue poly has multiple non-linear facto
rs)
```

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 92

2.1.16 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((b*x^n)^(1/3),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 101

2.1.17 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((b*x^n)^(2/3),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 109

2.1.18 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/(b*x^n)^(1/3),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 116

2.1.19 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/(b*x^n)^(2/3),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 124

2.1.20 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^2*(b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 131

2.1.21 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x*(b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 132

2.1.22 Fricas [F(-2)]

Exception generated.

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

[In] integrate((b*x^n)^(1/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 133

2.1.23 Fricas [F(-2)]

Exception generated.

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

[In] integrate((b*x^n)^(1/2)/x^2,x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 135

2.1.24 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((b*x^n)^(1/2)/x^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 136

2.1.25 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*(b*x^n)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 137

2.1.26 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((b*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 138

2.1.27 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((b*x^n)^(3/2)/x^2,x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 140

2.1.28 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((b*x^n)^(3/2)/x^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 141

2.1.29 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((b*x^n)^(3/2)/x^4,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 142

2.1.30 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^2/(b*x^n)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 143

2.1.31 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x/(b*x^n)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 144

2.1.32 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/(b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt`

Test file number 25

Integral number in file 145

2.1.33 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/x^2/(b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt`

Test file number 25

Integral number in file 147

2.1.34 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/x^3/(b*x^n)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 148

2.1.35 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^2/(b*x^n)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 149

2.1.36 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x/(b*x^n)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 150

2.1.37 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/(b*x^n)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 151

2.1.38 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/x^2/(b*x^n)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 153

2.1.39 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/x^3/(b*x^n)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 154

2.1.40 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^4/(b*x^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 155

2.1.41 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^m/(a*x^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 156

2.1.42 Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{(ax^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x)^m/(a*x^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 157

2.1.43 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^m*(b*x^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 158

2.1.44 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^m*(b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n-p.txt`

Test file number 25

Integral number in file 159

2.1.45 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^m/(b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n-p.txt`

Test file number 25

Integral number in file 160

2.1.46 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^m/(b*x^n)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 161

2.1.47 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*x)^m*(b*x^n)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 162

2.1.48 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*x)^m*(b*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 163

2.1.49 Fricas [F(-2)]

Exception generated.

$$\int (cx)^m \sqrt{bx^n} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c*x)^m*(b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 164

2.1.50 Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{\sqrt{bx^n}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c*x)^m/(b*x^n)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 165

2.1.51 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*x)^m/(b*x^n)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 166

2.1.52 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*x)^m/(b*x^n)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 167

2.1.53 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 1443

2.1.54 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_xⁿ-p.txt

Test file number 25

Integral number in file 1447

2.1.55 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^m*(a+b*x^(1/2))^p,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_xⁿ-p.txt

Test file number 25

Integral number in file 2263

2.1.56 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*(a+b*xⁿ)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_xⁿ-p.txt

Test file number 25

Integral number in file 2487

2.1.57 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2488

2.1.58 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2490

2.1.59 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+b*x^n)^(1/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2491

2.1.60 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*(a+b*x^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2492

2.1.61 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2493

2.1.62 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2495

2.1.63 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2496

2.1.64 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2497

2.1.65 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2498

2.1.66 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2500

2.1.67 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+b*x^n)^(5/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2501

2.1.68 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x/(a+b*x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2502

2.1.69 Fricas [F(-2)]

Exception generated.

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

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

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

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-^p.txt`

Test file number 25

Integral number in file 2503

2.1.70 Fricas [F(-2)]

Exception generated.

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

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

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

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-^p.txt`

Test file number 25

Integral number in file 2505

2.1.71 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2506

2.1.72 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2507

2.1.73 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2508

2.1.74 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2510

2.1.75 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/x^3/(a+b*x^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2511

2.1.76 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x/(a+b*x^n)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2512

2.1.77 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2513

2.1.78 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2515

2.1.79 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2516

2.1.80 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2673

2.1.81 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n-p.txt

Test file number 25

Integral number in file 2674

2.1.82 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n-p.txt

Test file number 25

Integral number in file 2675

2.1.83 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^m/(a+b*xⁿ)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_xⁿ-^p.txt

Test file number 25

Integral number in file 2676

2.1.84 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^m/(a+b*xⁿ)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_xⁿ-^p.txt

Test file number 25

Integral number in file 2677

2.1.85 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2678

2.1.86 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2679

2.1.87 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2680

2.1.88 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2681

2.1.89 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2682

2.1.90 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2683

2.1.91 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2684

2.1.92 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2685

2.1.93 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-p.txt

Test file number 25

Integral number in file 2686

2.1.94 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-p.txt

Test file number 25

Integral number in file 2690

2.1.95 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^(-1-1/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2691

2.1.96 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2692

2.1.97 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2693

2.1.98 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2694

2.1.99 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-p.txt

Test file number 25

Integral number in file 2695

2.1.100 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-p.txt

Test file number 25

Integral number in file 2696

2.1.101 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-p.txt

Test file number 25

Integral number in file 2697

2.1.102 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^-m-a+b_x^n-p.txt

Test file number 25

Integral number in file 2699

2.1.103 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2700

2.1.104 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2701

2.1.105 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^(-1+1/3*n)/(a+b*x^n)^(1/3),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2702

2.1.106 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2703

2.1.107 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2746

2.1.108 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2747

2.1.109 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2748

2.1.110 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2749

2.1.111 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2784

2.1.112 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2785

2.1.113 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2786

2.1.114 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2787

2.1.115 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2788

2.1.116 Fricas [F(-2)]

Exception generated.

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

[In] integrate((d*x)^m*(a+b*(c*x)^(3/2))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2919

2.1.117 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((d*x)^m*(a+b*(c*x)^(1/2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  algo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2920

2.1.118 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((d*x)^m*(a+b/(c*x)^(1/2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  algo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2921

2.1.119 Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{(cx)^{3/2}}} dx = \text{Exception raised: TypeError}$$

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

```
[Out] Exception raised: TypeError >> Error detected within library code:  alglo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2922

2.1.120 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code:  alglo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2978

2.1.121 Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + b\sqrt{cx^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x)^m*(a+b*(c*x^3)^(1/2))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2979

2.1.122 Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{\sqrt{cx^3}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x)^m*(a+b/(c*x^3)^(1/2))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2980

2.1.123 Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{(cx^3)^{3/2}}} dx = \text{Exception raised: TypeError}$$

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

```
[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2981

2.1.124 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2995

2.1.125 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((d*x)^m*(a+b*(c/x)^(1/2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  alglo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2996

2.1.126 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((d*x)^m*(a+b/(c/x)^(1/2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  alglo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2997

2.1.127 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code:  alglo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2998

2.1.128 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code:  alglo
gextint: unimplemented
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2999

2.1.129 Fracas [F(-2)]

Exception generated.

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

```
[In] integrate((d*x)^m/(a+b*(c/x)^(1/2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt
```

```
Test file number 25
```

```
Integral number in file 3000
```

2.1.130 Fracas [F(-2)]

Exception generated.

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

```
[In] integrate((d*x)^m/(a+b/(c/x)^(1/2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt
```

```
Test file number 25
```

```
Integral number in file 3001
```

2.1.131 Fricas [F(-2)]

Exception generated.

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

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

[Out] `Exception raised: TypeError >> Error detected within library code: algogextint: unimplemented`

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt`

Test file number 25

Integral number in file 3002

2.1.132 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^m*(a+c/x+b*(d/x)^(1/2))^(1/2),x, algorithm="fricas")`

[Out] `Exception raised: TypeError >> Error detected within library code: algogextint: unimplemented`

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt`

Test file number 25

Integral number in file 3052

2.1.133 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x^m/(a+c/x+b*(d/x)^(1/2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^-m-a+b_x^n-p.txt
```

Test file number 25

Integral number in file 3060

2.1.134 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt
```

Test file number 26

Integral number in file 223

2.1.135 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 281

2.1.136 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 282

2.1.137 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 366

2.1.138 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 367

2.1.139 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^3/(b*x^3+a)/(d*x^3+c)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 393

2.1.140 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x/(b*x^3+a)/(d*x^3+c)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 394

2.1.141 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 863

2.1.142 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 866

2.1.143 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 904

2.1.144 Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m (d + ex^n + fx^{2n} + gx^{3n})}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x)^m*(d+e*x^n+f*x^(2*n)+g*x^(3*n))/(a+b*x^n)^(1/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x^m-a+b_x^n-p.txt

Test file number 29

Integral number in file 584

2.1.145 Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x^3}{(1-x^4)\sqrt[4]{1+x^4}} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+1)/(-x^4+1)/(x^4+1)^(1/4),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x^m-a+b_x^n-p.txt

Test file number 29

Integral number in file 590

2.1.146 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^(-1-1/2*j)*(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 364

2.1.147 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 365

2.1.148 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 366

2.1.149 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 367

2.1.150 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 368

2.1.151 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 370

2.1.152 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 371

2.1.153 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x-^j+b_x-ⁿ-^p.txt

Test file number 30

Integral number in file 372

2.1.154 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x-^j+b_x-ⁿ-^p.txt

Test file number 30

Integral number in file 373

2.1.155 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ax^3 + bx^n)^{3/2}}{(cx)^{11/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^3+b*x^n)^(3/2)/(c*x)^(11/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 374

2.1.156 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a*x^2+b*x^n)^(3/2)/c^4/x^4,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 375

2.1.157 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 376

2.1.158 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 378

2.1.159 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 379

2.1.160 Fricas [F(-2)]

Exception generated.

$$\int (cx)^{7/2} \left(\frac{a}{x^3} + b x^n \right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c*x)^(7/2)*(a/x^3+b*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 380

2.1.161 Fricas [F(-2)]

Exception generated.

$$\int c^5 x^5 \left(\frac{a}{x^4} + bx^n \right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(c^5*x^5*(a/x^4+b*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^-m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 381

2.1.162 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^-m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 390

2.1.163 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 391

2.1.164 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 392

2.1.165 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 393

2.1.166 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 395

2.1.167 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/c^2/x^2/(a/x^2+b*x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 396

2.1.168 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(c*x)^(5/2)/(a/x^3+b*x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 397

2.1.169 Fricas [F(-2)]

Exception generated.

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

[In] integrate((c*x)^(-1+3/2*j)/(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 398

2.1.170 Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{7/2}}{(ax^3 + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x)^(7/2)/(a*x^3+b*x^n)^(3/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 399

2.1.171 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 400

2.1.172 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 401

2.1.173 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(c*x)^(5/2)/(a/x+b*x^n)^(3/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 403

2.1.174 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{c^4 x^4 \left(\frac{a}{x^2} + bx^n\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/c^4/x^4/(a/x^2+b*x^n)^(3/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 404

2.1.175 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{(cx)^{11/2} \left(\frac{a}{x^3} + bx^n\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(c*x)^(11/2)/(a/x^3+b*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 405

2.1.176 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{c^7 x^7 \left(\frac{a}{x^4} + bx^n\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/c^7/x^7/(a/x^4+b*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 406

2.1.177 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 415

2.1.178 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 417

2.1.179 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/(x^n*(a-b*x^(2-n)))^(1/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 418

2.1.180 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 420

2.1.181 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*x)^m*(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 421

2.1.182 Fricas [F(-2)]

Exception generated.

$$\int (cx)^m \sqrt{ax^j + bx^n} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c*x)^m*(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 422

2.1.183 Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{\sqrt{ax^j + bx^n}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c*x)^m/(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 423

2.1.184 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*x)^m/(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 424

2.1.185 Fricas [F(-2)]

Exception generated.

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

[In] integrate((c*x)^m/(a*x^j+b*x^n)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 425

2.1.186 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a*x^j+b*x^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 426

2.1.187 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a*x^j+b*x^n)^(1/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 427

2.1.188 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x^m-a_x^j+b_x^n-p.txt

Test file number 30

Integral number in file 428

2.1.189 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 429

2.1.190 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(a*x^j+b*x^n)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x^m-a_x^j+b_x^n^p.txt

Test file number 30

Integral number in file 430

2.1.191 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(1+x)\sqrt[6]{1+x^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(1+x)/(x^2+1)^(1/6),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 720

2.1.192 Fricas [F(-2)]

Exception generated.

$$\int (a^2 + 2ab\sqrt[3]{x} + b^2x^{2/3})^p (dx)^m dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2+2*a*b*x^(1/3)+b^2*x^(2/3))^p*(d*x)^m,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: algogextint: unimplemented

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x-^m-a+b_x^n+c_x^-2_n-^p.txt

Test file number 46

Integral number in file 472

2.1.193 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 568

2.1.194 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 569

2.1.195 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 570

2.1.196 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 571

2.1.197 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-
d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 573

2.1.198 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-
d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 574

2.1.199 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 575

2.1.200 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 576

2.1.201 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 577

2.1.202 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 578

2.1.203 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+b*x^n+c*x^(2*n))^(3/2)/x^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-
d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 580

2.1.204 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+b*x^n+c*x^(2*n))^(3/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-
d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 581

2.1.205 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-
d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 582

2.1.206 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-
d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 583

2.1.207 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 584

2.1.208 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 585

2.1.209 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 587

2.1.210 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 588

2.1.211 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^3/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 589

2.1.212 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^2/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 590

2.1.213 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 591

2.1.214 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 592

2.1.215 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 594

2.1.216 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 595

2.1.217 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 602

2.1.218 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 603

2.1.219 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 604

2.1.220 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 605

2.1.221 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 85

2.1.222 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 86

2.1.223 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-
d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 87

2.1.224 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-
d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 88

2.1.225 Fracas [F(-2)]

Exception generated.

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

[In] integrate((d+e*x^n)/(a+b*x^n+c*x^(2*n))^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-
d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 89

2.1.226 Fracas [F(-2)]

Exception generated.

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

[In] integrate(x^(-1+1/2*q)/(b*x^n+c*x^(2*n-q)+a*x^q)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-
d_x-m-a_x^q+b_x^n+c_x^-2_n-q-p.txt

Test file number 50

Integral number in file 140

2.1.227 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^4/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, alg
orithm="fricas")
```

```
[Out] Exception raised: RuntimeError >> no explicit roots found
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 136

2.1.228 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^3/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, alg
orithm="fricas")
```

```
[Out] Exception raised: RuntimeError >> no explicit roots found
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 137

2.1.229 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, alg
orithm="fricas")
```

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 139

2.1.230 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 140

2.1.231 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 141

2.1.232 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(1/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 3

2.1.233 Fricas [F(-2)]

Exception generated.

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

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

```
[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 4

2.1.234 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 54

2.1.235 Fricas [F(-2)]

Exception generated.

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

[In] integrate((1+x+3^(1/2))/(d*x+c)/(-x^3-1)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 147

2.1.236 Fricas [F(-2)]

Exception generated.

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

[In] integrate((1+x-3^(1/2))/(d*x+c)/(-x^3-1)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 151

2.1.237 Fricas [F(-2)]

Exception generated.

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

[In] integrate((-d*x+c)/(d*x+c)/(d^3*x^3+2*c^3)^(1/3),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 172

2.1.238 Fricas [F(-2)]

Exception generated.

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

[In] integrate((c*(b*x^2+a)^(1/2))^(3/2)/x^4,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Shouldn't happen

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 258

2.1.239 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a*x^(2*n))^(1/2)/(1+x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 393

2.1.240 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a*x^n)^(1/2)/(1+x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 394

2.1.241 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a*x^(1/2*n))^(1/2)/(1+x^n)^(1/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 395

2.1.242 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a*x^(2*n))^(1/2)/(1+x^n)^(1/2)+2*(a*x^(2*n))^(1/2)/(2+n)/(x^n)/(1+x^n)^(1/2),x, algorithm="fricas")

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

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 396

2.1.243 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 559

2.1.244 Fricas [F(-2)]

Exception generated.

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

[In] integrate((x^n/(1+x^n))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 1008

2.1.245 Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(a + bF^{\frac{c\sqrt{d+ex}}{\sqrt{f+gx}}}\right)^n}{df + (ef + dg)x + egx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*F^(c*(e*x+d)^(1/2)/(g*x+f)^(1/2)))^n/(d*f+(d*g+e*f)*x+e*g*x^2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: alglo
gextint: unimplemented

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 543

2.1.246 Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(a + bF^{\frac{c\sqrt{d+ex}}{\sqrt{df-ex}}}\right)^n}{d^2 - e^2x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*F^(c*(e*x+d)^(1/2)/(-e*f*x+d*f)^(1/2)))^n/(-e^2*x^2+d^2),x,
algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  algo
gextint: unimplemented
```

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 550

2.1.247 Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + e^x}{\sqrt{e^x + x}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+exp(x))/(exp(x)+x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 732

2.1.248 Fracas [F(-2)]

Exception generated.

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

[In] `integrate((b*x+a)^2*(f^x)^(1/2),x, algorithm="fricas")`

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 736

2.1.249 Fracas [F(-2)]

Exception generated.

$$\int \left(\frac{1}{\sqrt{e^x + x}} + \frac{e^x}{\sqrt{e^x + x}} \right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(exp(x)/(exp(x)+x)^(1/2)+1/(exp(x)+x)^(1/2),x, algorithm="fricas")`

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 744

2.1.250 Fracas [F(-2)]

Exception generated.

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

[In] `integrate((1+exp(x))*x/(exp(x)+x)^(1/2)+2*(exp(x)+x)^(1/2),x, algorithm="fricas")`

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 745

2.1.251 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sqrt{e^x + x}} + \frac{e^x x}{\sqrt{e^x + x}} + 2\sqrt{e^x + x} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(exp(x)+x)^(1/2)+exp(x)*x/(exp(x)+x)^(1/2)+2*(exp(x)+x)^(1/2), x, algorithm="fricas")

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 746

2.1.252 Fricas [F(-2)]

Exception generated.

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

[In] integrate((1+exp(x))*x/(exp(x)+x)^(1/2), x, algorithm="fricas")

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 747

2.1.253 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sqrt{e^x + x}} + \frac{e^x x}{\sqrt{e^x + x}} \right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(exp(x)+x)^(1/2)+exp(x)*x/(exp(x)+x)^(1/2),x, algorithm="fricas")`

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 748

2.1.254 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(exp(x)*x/(exp(x)+x)^(1/2),x, algorithm="fricas")`

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 749

2.1.255 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2(5e^x + 3x^2)}{5\sqrt{5e^x + x^3}} + \frac{4}{5}x\sqrt{5e^x + x^3} \right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/5*x^2*(5*exp(x)+3*x^2)/(5*exp(x)+x^3)^(1/2)+4/5*x*(5*exp(x)+x^3)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 750

2.1.256 Fricas [F(-2)]

Exception generated.

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

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

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 751

2.1.257 Fricas [F(-2)]

Exception generated.

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

[In] integrate((-1-exp(x))/(exp(x)+x)^(1/3),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 752

2.1.258 Fricas [F(-2)]

Exception generated.

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

[In] integrate(-1/(exp(x)+x)^(1/3)+x/(exp(x)+x)^(1/3)-(exp(x)+x)^(2/3),x, algorithm="fricas")

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 753

2.1.259 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x/(exp(x)+x)^(1/3),x, algorithm="fricas")

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 754

2.1.260 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 755

2.1.261 Fricas [F(-2)]

Exception generated.

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

[In] integrate(2*x/(exp(x)+x)^(1/3)+2*exp(x)*x/(exp(x)+x)^(1/3)+3*(exp(x)+x)^(2/3),x, algorithm="fricas")

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 756

2.1.262 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^2/(exp(x)+x)^(1/2),x, algorithm="fricas")

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 759

2.1.263 Fricas [F(-2)]

Exception generated.

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

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

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

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 770

2.1.264 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \log(cx^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*x^n))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n^p.txt

Test file number 56

Integral number in file 113

2.1.265 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\log(ax^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*log(a*x^n)^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 114

2.1.266 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\log(ax^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x²*log(a*xⁿ)^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 115

2.1.267 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\log(ax^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*log(a*xⁿ)^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 116

2.1.268 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\log(ax^n)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(log(a*x^n)^(1/2),x, algorithm="fricas")`

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txtTest file number 56Integral number in file 117**2.1.269 Fricas [F(-2)]**

Exception generated.

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

[In] `integrate(log(a*x^n)^(1/2)/x^2,x, algorithm="fricas")`

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txtTest file number 56Integral number in file 119**2.1.270 Fricas [F(-2)]**

Exception generated.

$$\int \frac{\sqrt{\log(ax^n)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(log(a*x^n)^(1/2)/x^3,x, algorithm="fricas")`

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 120

2.1.271 Fricas [F(-2)]

Exception generated.

$$\int x^3 \log^{\frac{3}{2}}(ax^n) dx = \text{Exception raised: TypeError}$$

[In] integrate(x³*log(a*xⁿ)^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 121

2.1.272 Fricas [F(-2)]

Exception generated.

$$\int x^2 \log^{\frac{3}{2}}(ax^n) dx = \text{Exception raised: TypeError}$$

[In] integrate(x²*log(a*xⁿ)^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 122

2.1.273 Fricas [F(-2)]

Exception generated.

$$\int x \log^{\frac{3}{2}}(ax^n) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*log(a*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt

Test file number 56

Integral number in file 123

2.1.274 Fricas [F(-2)]

Exception generated.

$$\int \log^{\frac{3}{2}}(ax^n) dx = \text{Exception raised: TypeError}$$

[In] `integrate(log(a*x^n)^(3/2),x, algorithm="fricas")`

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt

Test file number 56

Integral number in file 124

2.1.275 Fricas [F(-2)]

Exception generated.

$$\int \frac{\log^{\frac{3}{2}}(ax^n)}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(log(a*x^n)^(3/2)/x^2,x, algorithm="fricas")`

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 126

2.1.276 Fracas [F(-2)]

Exception generated.

$$\int \frac{\log^{\frac{3}{2}}(ax^n)}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(log(a*x^n)^(3/2)/x^3,x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 127

2.1.277 Fracas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/log(a*x^n)^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 128

2.1.278 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x^2/log(a*x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt

Test file number 56

Integral number in file 129

2.1.279 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/log(a*x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt

Test file number 56

Integral number in file 130

2.1.280 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/log(a*x^n)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-^p.txt

Test file number 56

Integral number in file 131

2.1.281 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/x²/log(a*xⁿ)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-^p.txt

Test file number 56

Integral number in file 133

2.1.282 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x³/log(a*xⁿ)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-^p.txt

Test file number 56

Integral number in file 134

2.1.283 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/log(a*x^n)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt
```

```
Test file number 56
```

```
Integral number in file 135
```

2.1.284 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/log(a*x^n)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt
```

```
Test file number 56
```

```
Integral number in file 136
```

2.1.285 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/log(a*x^n)^(3/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 137

2.1.286 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/log(a*xⁿ)^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 138

2.1.287 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x²/log(a*xⁿ)^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 140

2.1.288 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/log(a*x^n)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt
```

```
Test file number 56
```

```
Integral number in file 141
```

2.1.289 Fracas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/log(a*x^n)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt
```

```
Test file number 56
```

```
Integral number in file 142
```

2.1.290 Fracas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/log(a*x^n)^(5/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 143

2.1.291 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/log(a*x^n)^(5/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 144

2.1.292 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/log(a*x^n)^(5/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 145

2.1.293 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/log(a*x^n)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt
```

```
Test file number 56
```

```
Integral number in file 147
```

2.1.294 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/log(a*x^n)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt
```

```
Test file number 56
```

```
Integral number in file 148
```

2.1.295 Fricas [F(-2)]

Exception generated.

$$\int (d + ex) \sqrt{a + b \log(cx^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)*(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 124

2.1.296 Fricas [F(-2)]

Exception generated.

$$\int (d + ex)^2 \sqrt{a + b \log(cx^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)²*(a+b*log(c*xⁿ))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 125

2.1.297 Fricas [F(-2)]

Exception generated.

$$\int (d + ex)^3 \sqrt{a + b \log(cx^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)³*(a+b*log(c*xⁿ))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 126

2.1.298 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(cx^n)}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*x^n))^(1/2)/(e*x+d),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt
```

```
Test file number 57
```

```
Integral number in file 127
```

2.1.299 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(cx^n)}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*x^n))^(1/2)/(e*x+d)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt
```

```
Test file number 57
```

```
Integral number in file 128
```

2.1.300 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(cx^n)}}{(d + ex)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*x^n))^(1/2)/(e*x+d)^3,x, algorithm="fricas")
```


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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 129

2.1.301 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^{5/2} (a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((d+e*x^r)^(5/2)*(a+b*log(c*xⁿ))/x,x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 433

2.1.302 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^{3/2} (a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((d+e*x^r)^(3/2)*(a+b*log(c*xⁿ))/x,x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 434

2.1.303 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^r}(a+b\log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+e*x^r)^(1/2)*(a+b*log(c*x^n))/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 435

2.1.304 Fricas [F(-2)]

Exception generated.

$$\int \frac{a+b\log(cx^n)}{x\sqrt{d+ex^r}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*x^n))/x/(d+e*x^r)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 436

2.1.305 Fricas [F(-2)]

Exception generated.

$$\int \frac{a+b\log(cx^n)}{x(d+ex^r)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*x^n))/x/(d+e*x^r)^(3/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 437

2.1.306 Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^r)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*xⁿ))/x/(d+e*x^r)^(5/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 438

2.1.307 Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^r)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*xⁿ))/x/(d+e*x^r)^(7/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 439

2.1.308 Fricas [F(-2)]

Exception generated.

$$\int \log^{\frac{5}{2}}(c(d+ex)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(log(c*(e*x+d))^(5/2),x, algorithm="fricas")`

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-n-p.txt

Test file number 62

Integral number in file 9

2.1.309 Fricas [F(-2)]

Exception generated.

$$\int \log^{\frac{3}{2}}(c(d+ex)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(log(c*(e*x+d))^(3/2),x, algorithm="fricas")`

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-n-p.txt

Test file number 62

Integral number in file 10

2.1.310 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\log(c(d+ex))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(log(c*(e*x+d))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 11

2.1.311 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/log(c*(e*x+d))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 12

2.1.312 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{3}{2}}(c(d+ex))} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/log(c*(e*x+d))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 13

2.1.313 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{5}{2}}(c(d+ex))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/log(c*(e*x+d))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt
```

```
Test file number 62
```

```
Integral number in file 14
```

2.1.314 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{7}{2}}(c(d+ex))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/log(c*(e*x+d))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt
```

```
Test file number 62
```

```
Integral number in file 15
```

2.1.315 Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d+ex)^n))^{\frac{5}{2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 24

2.1.316 Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 25

2.1.317 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 26

2.1.318 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 27

2.1.319 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 28

2.1.320 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 29

2.1.321 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*log(c*(e*x+d)^n))^(7/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 30

2.1.322 Fricas [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^2*(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 105

2.1.323 Fricas [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((g*x+f)*(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 106

2.1.324 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 107

2.1.325 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 108

2.1.326 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 109

2.1.327 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{(f + gx)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f)^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 110

2.1.328 Fricas [F(-2)]

Exception generated.

$$\int (f + gx)^2 (a + b \log(c(d + ex)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^2*(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 111

2.1.329 Fricas [F(-2)]

Exception generated.

$$\int (f + gx) (a + b \log(c(d + ex)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 112

2.1.330 Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 113

2.1.331 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{3/2}}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(3/2)/(g*x+f),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 114

2.1.332 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{3/2}}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(3/2)/(g*x+f)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 115

2.1.333 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{3/2}}{(f + gx)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(e*x+d)^n))^(3/2)/(g*x+f)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 116

2.1.334 Fricas [F(-2)]

Exception generated.

$$\int (f + gx)^2 (a + b \log(c(d + ex)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^2*(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 117

2.1.335 Fricas [F(-2)]

Exception generated.

$$\int (f + gx) (a + b \log(c(d + ex)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)*(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 118

2.1.336 Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 119

2.1.337 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{5/2}}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(5/2)/(g*x+f),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 120

2.1.338 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{5/2}}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(e*x+d)^n))^(5/2)/(g*x+f)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 121

2.1.339 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{5/2}}{(f + gx)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(e*x+d)^n))^(5/2)/(g*x+f)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 122

2.1.340 Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^3/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")
```


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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 123

2.1.341 Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^2/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 124

2.1.342 Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 125

2.1.343 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 126

2.1.344 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(f + gx)\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(g*x+f)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 127

2.1.345 Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^3/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 128

2.1.346 Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^2/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 129

2.1.347 Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 130

2.1.348 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 131

2.1.349 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(f + gx)(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(g*x+f)/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 132

2.1.350 Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^3/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 133

2.1.351 Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^2/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 134

2.1.352 Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 135

2.1.353 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 136

2.1.354 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(f + gx)(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(g*x+f)/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 137

2.1.355 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{f + gx} \sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^(1/2)*(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")
```

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 156

2.1.356 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{\sqrt{f + gx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 157

2.1.357 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{(f + gx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 158

2.1.358 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}}{\sqrt{a+b\log(c(dx+e)^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^(1/2)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 159

2.1.359 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{f+gx}\sqrt{a+b\log(c(dx+e)^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(g*x+f)^(1/2)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 160

2.1.360 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(f+gx)^{3/2} \sqrt{a+b \log(c(d+ex)^n)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(g*x+f)^(3/2)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 161

2.1.361 Fricas [F(-2)]

Exception generated.

$$\int (a+b \log(c(d(e+fx)^m)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(d*(f*x+e)^m)^n))^(5/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 411

2.1.362 Fricas [F(-2)]

Exception generated.

$$\int (a+b \log(c(d(e+fx)^m)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(d*(f*x+e)^m)^n))^(3/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 412

2.1.363 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \log(c(d(e + fx)^m)^n)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^m)^n))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 413

2.1.364 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \log(c(d(e + fx)^m)^n)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*log(c*(d*(f*x+e)^m)^n))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 414

2.1.365 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^m)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*log(c*(d*(f*x+e)^m)^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 415

2.1.366 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^m)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*log(c*(d*(f*x+e)^m)^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 416

2.1.367 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^m)^n))^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*log(c*(d*(f*x+e)^m)^n))^(7/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-n-p.txt

Test file number 62

Integral number in file 417

2.1.368 Fricas [F(-2)]

Exception generated.

$$\int (g + hx)^2 \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)^2*(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-n-p.txt

Test file number 62

Integral number in file 460

2.1.369 Fricas [F(-2)]

Exception generated.

$$\int (g + hx) \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)*(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-n-p.txt

Test file number 62

Integral number in file 461

2.1.370 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 462

2.1.371 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d(e + fx)^p)^q)}}{g + hx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2)/(h*x+g),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 463

2.1.372 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d(e + fx)^p)^q)}}{(g + hx)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2)/(h*x+g)^2,x, algorithm="fricas
")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 464

2.1.373 Fricas [F(-2)]

Exception generated.

$$\int (g + hx)^2 (a + b \log(c(d(e + fx)^p)^q))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)^2*(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 465

2.1.374 Fricas [F(-2)]

Exception generated.

$$\int (g + hx) (a + b \log(c(d(e + fx)^p)^q))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)*(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 466

2.1.375 Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d(e + fx)^p)^q))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 467

2.1.376 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^{3/2}}{g + hx} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(3/2)/(h*x+g),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 468

2.1.377 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^{3/2}}{(g + hx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(3/2)/(h*x+g)^2,x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 469

2.1.378 Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2}{\sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)^2/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 470

2.1.379 Fricas [F(-2)]

Exception generated.

$$\int \frac{g + hx}{\sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 471

2.1.380 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")
```

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

```
input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt
```

```
Test file number 62
```

```
Integral number in file 472
```

2.1.381 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{(g + hx) \sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")
```

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

```
input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt
```

```
Test file number 62
```

```
Integral number in file 473
```

2.1.382 Fracas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2}{(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((h*x+g)^2/(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 474

2.1.383 Fricas [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 475

2.1.384 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 476

2.1.385 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(g + hx)(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 477

2.1.386 Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2}{(a + b \log(c(d(e + fx)^p)^q))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((h*x+g)^2/(a+b*log(c*(d*(f*x+e)^p)^q))^(5/2),x, algorithm="fricas")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 478

2.1.387 Fricas [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + b \log(c(d(e + fx)^p)^q))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 479

2.1.388 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^p)^q))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*log(c*(d*(f*x+e)^p)^q))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 480

2.1.389 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(g + hx)(a + b \log(c(d(e + fx)^p)^q))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(5/2),x, algorithm="fricas
")
```

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 481

2.1.390 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{g + hx} \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)^(1/2)*(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 500

2.1.391 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d(e + fx)^p)^q)}}{\sqrt{g + hx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2)/(h*x+g)^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 501

2.1.392 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d(e + fx)^p)^q)}}{(g + hx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2)/(h*x+g)^(3/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n^p.txt

Test file number 62

Integral number in file 502

2.1.393 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{g + hx}}{\sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((h*x+g)^(1/2)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n^p.txt

Test file number 62

Integral number in file 503

2.1.394 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{g+hx}\sqrt{a+b\log(c(d(e+fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(h*x+g)^(1/2)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="
fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 504

2.1.395 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(g+hx)^{3/2}\sqrt{a+b\log(c(d(e+fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(h*x+g)^(3/2)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="
fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 505

2.1.396 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(1/(-log(a*x^2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 263

2.1.397 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-\log\left(\frac{a}{x^2}\right)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-log(a/x^2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 264

2.1.398 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(1/(-log(a*x^n))^(1/2),x, algorithm="fricas")
```


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

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 265

2.1.399 Fricas [F(-2)]

Exception generated.

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

[In] integrate(log(x)/(a+b*log(x))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 301

2.1.400 Fricas [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{\sqrt{a - b \log(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(log(x)/(a-b*log(x))^(1/2),x, algorithm="fricas")

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

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 302

2.1.401 Fricas [F(-2)]

Exception generated.

$$\int \frac{A + B \log(x)}{\sqrt{a + b \log(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((A+B*log(x))/(a+b*log(x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 303

2.1.402 Fricas [F(-2)]

Exception generated.

$$\int \frac{A + B \log(x)}{\sqrt{a - b \log(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((A+B*log(x))/(a-b*log(x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 304

2.1.403 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sin^{\frac{3}{2}}(e + fx)} + x \sqrt{\sin(e + fx)} \right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/sin(f*x+e)^(3/2)+x*sin(f*x+e)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^{-m}-a+b_sin⁻ⁿ.txt

Test file number 66

Integral number in file 67

2.1.404 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\sin^{\frac{3}{2}}(e+fx)} + x^2 \sqrt{\sin(e+fx)} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(x²/sin(f*x+e)^(3/2)+x²*sin(f*x+e)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^{-m}-a+b_sin⁻ⁿ.txt

Test file number 66

Integral number in file 68

2.1.405 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sin^{\frac{7}{2}}(e+fx)} + \frac{3}{5}x \sqrt{\sin(e+fx)} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(x/sin(f*x+e)^(7/2)+3/5*x*sin(f*x+e)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^{-m}-a+b_sin⁻ⁿ.txt

Test file number 66

Integral number in file 70

2.1.406 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\csc^{\frac{3}{2}}(e+fx)} - \frac{1}{3}x\sqrt{\csc(e+fx)} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(x/csc(f*x+e)^(3/2)-1/3*x*csc(f*x+e)^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 91

2.1.407 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\csc^{\frac{3}{2}}(e+fx)} - \frac{1}{3}x^2\sqrt{\csc(e+fx)} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/csc(f*x+e)^(3/2)-1/3*x^2*csc(f*x+e)^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 92

2.1.408 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\csc^{\frac{5}{2}}(e+fx)} - \frac{3x}{5\sqrt{\csc(e+fx)}} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/csc(f*x+e)^(5/2)-3/5*x/csc(f*x+e)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 93

2.1.409 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\csc^{\frac{7}{2}}(e+fx)} - \frac{5}{21}x\sqrt{\csc(e+fx)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/csc(f*x+e)^(7/2)-5/21*x*csc(f*x+e)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 94

2.1.410 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x^3*(a+a*sin(d*x+c))^(1/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 122

2.1.411 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x²*(a+a*sin(d*x+c))^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 123

2.1.412 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + a \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a+a*sin(d*x+c))^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 124

2.1.413 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((a+a*sin(d*x+c))^(1/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 125

2.1.414 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((a+a*sin(d*x+c))^(1/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 126

2.1.415 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((a+a*sin(d*x+c))^(1/2)/x^3,x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 127

2.1.416 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x³*(a+a*sin(f*x+e))^(3/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 128

2.1.417 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x²*(a+a*sin(f*x+e))^(3/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 129

2.1.418 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*(a+a*sin(f*x+e))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

```
input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt
```

```
Test file number 66
```

```
Integral number in file 130
```

2.1.419 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((a+a*sin(f*x+e))^(3/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

```
input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt
```

```
Test file number 66
```

```
Integral number in file 131
```

2.1.420 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((a+a*sin(f*x+e))^(3/2)/x^2,x, algorithm="fricas")
```

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 132

2.1.421 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*sin(f*x+e))^(3/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 133

2.1.422 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*sin(d*x+c))^(1/3)/x,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 144

2.1.423 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)^3*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Too many variables

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 232

2.1.424 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)^3*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Too many variables

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 236

2.1.425 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)^3*cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Too many variables

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 325

2.1.426 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^2(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)³*cos(d*x+c)²*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Too many variables

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 329

2.1.427 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)³*cos(d*x+c)³*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Too many variables

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 333

2.1.428 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)^3*cos(d*x+c)*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: Too many variables
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 337

2.1.429 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)^3*cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: Too many variables
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 341

2.1.430 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^3(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)^3*cos(d*x+c)^3*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: Too many variables
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 345

2.1.431 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{5/2} (a + b \sin(c + dx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*cos(d*x+c))^(5/2)/(a+b*sin(d*x+c))^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: catdef: division by zero
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 592

2.1.432 Fricas [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{11/2}}{(a + b \sin(c + dx))^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*cos(d*x+c))^(11/2)/(a+b*sin(d*x+c))^4,x, algorithm="fricas")
```

[Out] Exception raised: TypeError >> Error detected within library code: catdef: division by zero

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 607

2.1.433 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cos(c + dx)}(a + b \sin(c + dx))^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*sin(d*x+c))^4/(e*cos(d*x+c))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: catdef: division by zero

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 613

2.1.434 Fricas [F(-2)]

Exception generated.

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

[In] integrate((c*sin(b*x+a)^m)^(5/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig^m-a+b-c_sinⁿ^p.txt

Test file number 79

Integral number in file 19

2.1.435 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*sin(b*x+a)^m)^(3/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt

Test file number 79

Integral number in file 20

2.1.436 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*sin(b*x+a)^m)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt

Test file number 79

Integral number in file 21

2.1.437 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/(c*sin(b*x+a)^m)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 22

2.1.438 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(c*sin(b*x+a)^m)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 23

2.1.439 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(c*sin(b*x+a)^m)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 24

2.1.440 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sin^5(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*sin(x)^5),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 249

2.1.441 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \sin^5(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a-b*sin(x)^5),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 252

2.1.442 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(cot(x)/(a+b*sin(x)^3)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: failed of mode Union(SparseUnivariatePolynomial(Expression(Complex(Integer))),fa

iled) cannot be coerced to mode SparseUnivariatePolynomial(Expression(Complex(Int

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 554

2.1.443 Fricas [F(-2)]

Exception generated.

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

[In] integrate((c*cos(b*x+a)^m)^(5/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.0-a_cos-^m-b_trg-ⁿ.txt

Test file number 82

Integral number in file 58

2.1.444 Fricas [F(-2)]

Exception generated.

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

[In] integrate((c*cos(b*x+a)^m)^(3/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.0-a_cos-^m-b_trg-ⁿ.txt

Test file number 82

Integral number in file 59

2.1.445 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((c*cos(b*x+a)^m)^(1/2),x, algorithm="fricas")`

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

input file name `4_Trig_functions/4.2_Cosine/4.2.0-a_cos^m-b_trg^n.txt`

Test file number 82

Integral number in file 60

2.1.446 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/(c*cos(b*x+a)^m)^(1/2),x, algorithm="fricas")`

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

input file name `4_Trig_functions/4.2_Cosine/4.2.0-a_cos^m-b_trg^n.txt`

Test file number 82

Integral number in file 61

2.1.447 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(1/(c*cos(b*x+a)^m)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.0-a_cos-^m-b_trg-ⁿ.txt

Test file number 82

Integral number in file 62

2.1.448 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(c*cos(b*x+a)^m)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.0-a_cos-^m-b_trg-ⁿ.txt

Test file number 82

Integral number in file 63

2.1.449 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\cos(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*cos(b*x+a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-ⁿ.txt

Test file number 83

Integral number in file 75

2.1.450 Fricas [F(-2)]

Exception generated.

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

[In] integrate(cos(b*x+a)^(1/2)/x,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txtTest file number 83Integral number in file 77**2.1.451 Fricas [F(-2)]**

Exception generated.

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

[In] integrate(x*cos(b*x+a)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txtTest file number 83Integral number in file 78**2.1.452 Fricas [F(-2)]**

Exception generated.

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

[In] integrate(cos(b*x+a)^(3/2)/x,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 80

2.1.453 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*cos(b*x+a)^(3/2)-1/3*x/cos(b*x+a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 81

2.1.454 Fricas [F(-2)]

Exception generated.

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

[In] integrate(cos(x)^(3/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 82

2.1.455 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x/cos(b*x+a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txtTest file number 83Integral number in file 83**2.1.456 Fricas [F(-2)]**

Exception generated.

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

[In] integrate(1/x/cos(b*x+a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txtTest file number 83Integral number in file 85**2.1.457 Fricas [F(-2)]**

Exception generated.

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

[In] integrate(x/cos(b*x+a)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 86

2.1.458 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/x/cos(b*x+a)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 88

2.1.459 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x/cos(b*x+a)^(3/2)+x*cos(b*x+a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 89

2.1.460 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x/cos(x)^(3/2)+x*cos(x)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txt

Test file number 83

Integral number in file 90

2.1.461 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cos^{\frac{7}{2}}(x)} + \frac{3}{5}x\sqrt{\cos(x)} \right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/cos(x)^(7/2)+3/5*x*cos(x)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txt

Test file number 83

Integral number in file 92

2.1.462 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^2/cos(x)^(3/2)+x^2*cos(x)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 93

2.1.463 Fracas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sec^{\frac{3}{2}}(x)} - \frac{1}{3}x\sqrt{\sec(x)} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(x/sec(x)^(3/2)-1/3*x*sec(x)^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 94

2.1.464 Fracas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sec^{\frac{5}{2}}(x)} - \frac{3x}{5\sqrt{\sec(x)}} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(x/sec(x)^(5/2)-3/5*x/sec(x)^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 95

2.1.465 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sec^{\frac{7}{2}}(x)} - \frac{5}{21} x \sqrt{\sec(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/sec(x)^(7/2)-5/21*x*sec(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 96

2.1.466 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\sec^{\frac{3}{2}}(x)} - \frac{1}{3} x^2 \sqrt{\sec(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/sec(x)^(3/2)-1/3*x^2*sec(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 97

2.1.467 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x^3*(a+a*cos(d*x+c))^(1/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 143

2.1.468 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x²*(a+a*cos(d*x+c))^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 144

2.1.469 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + a \cos(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a+a*cos(d*x+c))^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 145

2.1.470 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*cos(d*x+c))^(1/2)/x,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 147

2.1.471 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*cos(d*x+c))^(1/2)/x^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 148

2.1.472 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*cos(d*x+c))^(1/2)/x^3,x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 149

2.1.473 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x³*(a+a*cos(x))^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 150

2.1.474 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x²*(a+a*cos(x))^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 151

2.1.475 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a+a\cos(x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+a*cos(x))^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txt

Test file number 83

Integral number in file 152

2.1.476 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((a+a*cos(x))^(1/2)/x,x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txt

Test file number 83

Integral number in file 154

2.1.477 Fricas [F(-2)]

Exception generated.

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

[In] `integrate((a+a*cos(x))^(1/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 155

2.1.478 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*cos(x))^(1/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 156

2.1.479 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a - a \cos(x)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a-a*cos(x))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 157

2.1.480 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a - a \cos(x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a-a*cos(x))^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txt

Test file number 83

Integral number in file 158

2.1.481 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a - a \cos(x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a-a*cos(x))^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txt

Test file number 83

Integral number in file 159

2.1.482 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \cos(x)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a-a*cos(x))^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 161

2.1.483 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a-a*cos(x))^(1/2)/x^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 162

2.1.484 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a-a*cos(x))^(1/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 163

2.1.485 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^3*(a+a*cos(x))^(3/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txtTest file number 83Integral number in file 164**2.1.486 Fricas [F(-2)]**

Exception generated.

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

[In] `integrate(x^2*(a+a*cos(x))^(3/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txtTest file number 83Integral number in file 165**2.1.487 Fricas [F(-2)]**

Exception generated.

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

[In] `integrate(x*(a+a*cos(x))^(3/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 166

2.1.488 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*cos(x))^(3/2)/x,x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 167

2.1.489 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*cos(x))^(3/2)/x^2,x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cosⁿ.txt

Test file number 83

Integral number in file 168

2.1.490 Fricas [F(-2)]

Exception generated.

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

[In] integrate((a+a*cos(x))^(3/2)/x^3,x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txtTest file number 83Integral number in file 169**2.1.491 Fricas [F(-2)]**

Exception generated.

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

[In] integrate((a+a*cos(d*x+c))^(1/3)/x,x, algorithm="fricas")

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

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txtTest file number 83Integral number in file 184**2.1.492 Fricas [F(-2)]**

Exception generated.

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

[In] integrate(1/(-1+cos(x)^2)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero

input file name 4_Trig_functions/4.2_Cosine/4.2.7-d_trig- \hat{m} -a+b-c_cos- \hat{n} - \hat{p} .txt

Test file number 95

Integral number in file 52

2.1.493 Fricas [F(-2)]

Exception generated.

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

[In] integrate(1/(-1+cos(x)^2)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero

input file name 4_Trig_functions/4.2_Cosine/4.2.7-d_trig- \hat{m} -a+b-c_cos- \hat{n} - \hat{p} .txt

Test file number 95

Integral number in file 54

2.1.494 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos^5(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*cos(x)^5),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 4_Trig_functions/4.2_Cosine/4.2.7-d_trig- \hat{m} -a+b-c_cos- \hat{n} - \hat{p} .txt

Test file number 95

Integral number in file 74

2.1.495 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \cos^5(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a-b*cos(x)^5),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 4_Trig_functions/4.2_Cosine/4.2.7-d_trig-^m-a+b-c_cos-^n-^p.txt

Test file number 95

Integral number in file 77

2.1.496 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(tan(x)/(a+b*cos(x)^3)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: failed of mode Union(SparseUnivariatePolynomial(Expression(Complex(Integer))),failed) cannot be coerced to mode SparseUnivariatePolynomial(Expression(Complex(Integer)))

input file name 4_Trig_functions/4.2_Cosine/4.2.7-d_trig-^m-a+b-c_cos-^n-^p.txt

Test file number 95

Integral number in file 94

2.1.497 Fricas [F(-2)]

Exception generated.

$$\int (b \tan^p(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*tan(d*x+c)^p)^(5/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-^m-b_tan-ⁿ.txt

Test file number 98

Integral number in file 46

2.1.498 Fricas [F(-2)]

Exception generated.

$$\int (b \tan^p(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*tan(d*x+c)^p)^(3/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-^m-b_tan-ⁿ.txt

Test file number 98

Integral number in file 47

2.1.499 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{b \tan^p(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*tan(d*x+c)^p)^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-^m-b_tan-ⁿ.txt

Test file number 98

Integral number in file 48

2.1.500 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \tan^p(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*tan(d*x+c)^p)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-^m-b_tan-^n.txt
```

```
Test file number 98
```

```
Integral number in file 49
```

2.1.501 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tan^p(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*tan(d*x+c)^p)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-^m-b_tan-^n.txt
```

```
Test file number 98
```

```
Integral number in file 50
```

2.1.502 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tan^p(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*tan(d*x+c)^p)^(5/2),x, algorithm="fricas")
```

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 51

2.1.503 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d \sec(e + fx))^{3/2}}{a + b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*sec(f*x+e))^(3/2)/(a+b*tan(f*x+e)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec-[^]m-a+b_tan-[^]n.txt

Test file number 101

Integral number in file 605

2.1.504 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d \sec(e + fx))^{5/2}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*sec(f*x+e))^(5/2)/(a+b*tan(f*x+e))^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec-[^]m-a+b_tan-[^]n.txt

Test file number 101

Integral number in file 611

2.1.505 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(tan(d*x+c)^(2/3)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 249

2.1.506 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(tan(d*x+c)^(1/3)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 250

2.1.507 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{4}{3}}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(4/3),x, algorithm="fricas")
```

[Out] Exception raised: TypeError >> Error detected within library code: catde
f: division by zero

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 253

2.1.508 Fricas [F(-2)]

Exception generated.

$$\int (b \tan^n(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*tan(f*x+e)^n)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 19

2.1.509 Fricas [F(-2)]

Exception generated.

$$\int (b \tan^n(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*tan(f*x+e)^n)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 20

2.1.510 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{b \tan^n(e + fx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*tan(f*x+e)^n)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-^n-^p.txtTest file number 106Integral number in file 21**2.1.511 Fricas [F(-2)]**

Exception generated.

$$\int \frac{1}{\sqrt{b \tan^n(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*tan(f*x+e)^n)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-^n-^p.txtTest file number 106Integral number in file 22**2.1.512 Fricas [F(-2)]**

Exception generated.

$$\int \frac{1}{(b \tan^n(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*tan(f*x+e)^n)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 23

2.1.513 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tan^n(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(b*tan(f*x+e)ⁿ)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 24

2.1.514 Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^4 \csc(a + bx) \sec(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)⁴*csc(b*x+a)*sec(b*x+a),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: Too m
any variables

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 228

2.1.515 Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^4 \csc(a + bx) \sec^2(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x+c)^4*csc(b*x+a)*sec(b*x+a)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: Too m
any variables
```

```
input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt
```

```
Test file number 137
```

```
Integral number in file 266
```

2.1.516 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((d*x+c)^4*csc(b*x+a)*sec(b*x+a)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: Too m
any variables
```

```
input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt
```

```
Test file number 137
```

```
Integral number in file 310
```

2.1.517 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*cos(b*x+a)^(5/2)*sin(b*x+a),x, algorithm="fricas")
```


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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 328

2.1.518 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*cos(b*x+a)^(3/2)*sin(b*x+a),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 329

2.1.519 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\cos(a + bx)} \sin(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sin(b*x+a)*cos(b*x+a)^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 330

2.1.520 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*sin(b*x+a)/cos(b*x+a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 331

2.1.521 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*sin(b*x+a)/cos(b*x+a)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 332

2.1.522 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*sin(b*x+a)/cos(b*x+a)^(5/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 333

2.1.523 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\cos^{\frac{7}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sin(b*x+a)/cos(b*x+a)^(7/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 334

2.1.524 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\cos^{\frac{9}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sin(b*x+a)/cos(b*x+a)^(9/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 335

2.1.525 Fricas [F(-2)]

Exception generated.

$$\int x \sec^{\frac{9}{2}}(a + bx) \sin(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*sec(b*x+a)^(9/2)*sin(b*x+a),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 336

2.1.526 Fricas [F(-2)]

Exception generated.

$$\int x \sec^{\frac{7}{2}}(a + bx) \sin(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*sec(b*x+a)^(7/2)*sin(b*x+a),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 337

2.1.527 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x*sec(b*x+a)^(5/2)*sin(b*x+a),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 338

2.1.528 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*sec(b*x+a)^(3/2)*sin(b*x+a),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 339

2.1.529 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\sec(a + bx)} \sin(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sin(b*x+a)*sec(b*x+a)^(1/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 340

2.1.530 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*sin(b*x+a)/sec(b*x+a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

```
input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt
```

```
Test file number 137
```

```
Integral number in file 341
```

2.1.531 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*sin(b*x+a)/sec(b*x+a)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

```
input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt
```

```
Test file number 137
```

```
Integral number in file 342
```

2.1.532 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x*sin(b*x+a)/sec(b*x+a)^(5/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 343

2.1.533 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*cos(b*x+a)*sin(b*x+a)^(5/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 344

2.1.534 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*cos(b*x+a)*sin(b*x+a)^(3/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 345

2.1.535 Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \sqrt{\sin(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cos(b*x+a)*sin(b*x+a)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 346

2.1.536 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x*cos(b*x+a)/sin(b*x+a)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 347

2.1.537 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x*cos(b*x+a)/sin(b*x+a)^(3/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 348

2.1.538 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*cos(b*x+a)/sin(b*x+a)^(5/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 349

2.1.539 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\sin^{\frac{7}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*cos(b*x+a)/sin(b*x+a)^(7/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^mtrigⁿtrig^p.txt

Test file number 137

Integral number in file 350

2.1.540 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\sin^{\frac{9}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cos(b*x+a)/sin(b*x+a)^(9/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt
```

```
Test file number 137
```

```
Integral number in file 351
```

2.1.541 Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \csc^{\frac{9}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cos(b*x+a)*csc(b*x+a)^(9/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt
```

```
Test file number 137
```

```
Integral number in file 352
```

2.1.542 Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \csc^{\frac{7}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cos(b*x+a)*csc(b*x+a)^(7/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 353

2.1.543 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*cos(b*x+a)*csc(b*x+a)^(5/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 354

2.1.544 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*cos(b*x+a)*csc(b*x+a)^(3/2),x, algorithm="fricas")

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 355

2.1.545 Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \sqrt{\csc(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cos(b*x+a)*csc(b*x+a)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 356

2.1.546 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x*cos(b*x+a)/csc(b*x+a)^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 357

2.1.547 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x*cos(b*x+a)/csc(b*x+a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 358

2.1.548 Fricas [F(-2)]

Exception generated.

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

[In] integrate(x*cos(b*x+a)/csc(b*x+a)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trigⁿ_trig^p.txt

Test file number 137

Integral number in file 359

2.1.549 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\sin(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sin(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_xⁿ
^p.txt

Test file number 139

Integral number in file 53

2.1.550 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\sin(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 54

2.1.551 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\sin(a + b \log(cx^n))}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(a+b*log(c*x^n))^(1/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 56

2.1.552 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\sin(a + b \log(cx^n))}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(sin(a+b*log(c*x^n))^(1/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 57

2.1.553 Fricas [F(-2)]

Exception generated.

$$\int x \sin^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sin(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 58

2.1.554 Fricas [F(-2)]

Exception generated.

$$\int \sin^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(sin(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 59

2.1.555 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sin^{\frac{3}{2}}(a + b \log(cx^n))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(sin(a+b*log(c*x^n))^(3/2)/x^2,x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 61

2.1.556 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sin^{\frac{3}{2}}(a + b \log(cx^n))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(a+b*log(c*x^n))^(3/2)/x^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 62

2.1.557 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\sin(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/sin(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 63

2.1.558 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sin^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/sin(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 65

2.1.559 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sin^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/sin(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 67

2.1.560 Fricas [F(-2)]

Exception generated.

$$\int (ex)^m \sin^{\frac{3}{2}}(d(a + b \log(cx^n))) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x)^m*sin(d*(a+b*log(c*x^n)))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 74

2.1.561 Fricas [F(-2)]

Exception generated.

$$\int (ex)^m \sqrt{\sin(d(a + b \log(cx^n)))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x)^m*sin(d*(a+b*log(c*x^n)))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 75

2.1.562 Fracas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{\sqrt{\sin(d(a+b\log(cx^n)))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x)^m/sin(d*(a+b*log(c*x^n)))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 76

2.1.563 Fracas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{\sin^{\frac{3}{2}}(d(a+b\log(cx^n)))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x)^m/sin(d*(a+b*log(c*x^n)))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 77

2.1.564 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{\sin^{\frac{5}{2}}(d(a+b\log(cx^n)))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x)^m/sin(d*(a+b*log(c*x^n)))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 78

2.1.565 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\cos(a+b\log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 110

2.1.566 Fricas [F(-2)]

Exception generated.

$$\int \cos^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 112

2.1.567 Fricas [F(-2)]

Exception generated.

$$\int \cos^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 114

2.1.568 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cos(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/cos(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 116

2.1.569 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/cos(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 118

2.1.570 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/cos(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 120

2.1.571 Fricas [F(-2)]

Exception generated.

$$\int x^m \cos^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*cos(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 127

2.1.572 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^m*cos(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 128

2.1.573 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\cos(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/cos(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 129

2.1.574 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\cos^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/cos(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 130

2.1.575 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\cos^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/cos(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 131

2.1.576 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\sec(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 266

2.1.577 Fricas [F(-2)]

Exception generated.

$$\int \sec^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 268

2.1.578 Fricas [F(-2)]

Exception generated.

$$\int \sec^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt
```

```
Test file number 139
```

```
Integral number in file 270
```

2.1.579 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\sec(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/sec(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

```
input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt
```

```
Test file number 139
```

```
Integral number in file 272
```

2.1.580 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/sec(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 274

2.1.581 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/sec(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 276

2.1.582 Fricas [F(-2)]

Exception generated.

$$\int x^m \sec^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*sec(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 281

2.1.583 Fricas [F(-2)]

Exception generated.

$$\int x^m \sec^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*sec(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 282

2.1.584 Fricas [F(-2)]

Exception generated.

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

[In] `integrate(x^m*sec(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 283

2.1.585 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\sec(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/sec(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 284

2.1.586 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sec^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/sec(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 285

2.1.587 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\csc(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(csc(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 308

2.1.588 Fricas [F(-2)]

Exception generated.

$$\int \csc^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 310

2.1.589 Fricas [F(-2)]

Exception generated.

$$\int \csc^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 312

2.1.590 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\csc(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/csc(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 314

2.1.591 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\csc^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/csc(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 316

2.1.592 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\csc^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/csc(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 318

2.1.593 Fricas [F(-2)]

Exception generated.

$$\int x^m \csc^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*csc(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 323

2.1.594 Fricas [F(-2)]

Exception generated.

$$\int x^m \csc^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*csc(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 324

2.1.595 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate(x^m*csc(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 325

2.1.596 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\csc(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m/csc(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 326

2.1.597 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\csc^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m/csc(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 327

2.1.598 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 165

2.1.599 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 166

2.1.600 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 167

2.1.601 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2)/x,x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 168

2.1.602 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2)/x^2,x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 169

2.1.603 Fricas [F(-2)]

Exception generated.

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

```
[In] integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2)/x^3,x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 170

2.1.604 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a - a \sin(e + fx)} (c + c \sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(c+c*sin(f*x+e))^(3/2)*(a-a*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 171

2.1.605 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a - a \sin(e + fx)} (c + c \sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(c+c*sin(f*x+e))^(3/2)*(a-a*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

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

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 172

2.1.606 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a - a\sin(e + fx)}(c + c\sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(c+c*sin(f*x+e))^(3/2)*(a-a*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 173

2.1.607 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a\sin(e + fx)}(c + c\sin(e + fx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+c*sin(f*x+e))^(3/2)*(a-a*sin(f*x+e))^(1/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 174

2.1.608 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)}(c + c \sin(e + fx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+c*sin(f*x+e))^(3/2)*(a-a*sin(f*x+e))^(1/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 175

2.1.609 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)}(c + c \sin(e + fx))^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+c*sin(f*x+e))^(3/2)*(a-a*sin(f*x+e))^(1/2)/x^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 176

2.1.610 Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^3 \sqrt{a - a \sin(e + fx)}}{\sqrt{c + c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((h*x+g)^3*(a-a*sin(f*x+e))^(1/2)/(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 177

2.1.611 Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2 \sqrt{a - a \sin(e + fx)}}{\sqrt{c + c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((h*x+g)^2*(a-a*sin(f*x+e))^(1/2)/(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 178

2.1.612 Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)\sqrt{a - a\sin(e + fx)}}{\sqrt{c + c\sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((h*x+g)*(a-a*sin(f*x+e))^(1/2)/(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 179

2.1.613 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a\sin(e + fx)}}{(g + hx)\sqrt{c + c\sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a-a*sin(f*x+e))^(1/2)/(h*x+g)/(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 180

2.1.614 Fracas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a - a \sin(e + fx)}}{(c + c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(a-a*sin(f*x+e))^(1/2)/(c+c*sin(f*x+e))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 182

2.1.615 Fracas [F(-2)]

Exception generated.

$$\int \sqrt{\csc(x)}(x \cos(x) - 4 \sec(x) \tan(x)) dx = \text{Exception raised: TypeError}$$

[In] integrate(csc(x)^(1/2)*(x*cos(x)-4*sec(x)*tan(x)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 865

2.1.616 Fracas [F(-2)]

Exception generated.

$$\int \left(\frac{x^4}{b\sqrt{x^3 + 3 \sin(a + bx)}} + \frac{x^2 \cos(a + bx)}{\sqrt{x^3 + 3 \sin(a + bx)}} + \frac{4x \sqrt{x^3 + 3 \sin(a + bx)}}{3b} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/b/(x^3+3*sin(b*x+a))^(1/2)+x^2*cos(b*x+a)/(x^3+3*sin(b*x+a))^(1/2)+4/3*x*(x^3+3*sin(b*x+a))^(1/2)/b,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 931

2.1.617 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \cos(a + bx)}{\sqrt{x^3 + 3 \sin(a + bx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*cos(b*x+a)/(x^3+3*sin(b*x+a))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 932

2.1.618 Fricas [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^-m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 74

2.1.619 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsin(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 75

2.1.620 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arcsin(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 76

2.1.621 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arcsin(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 77

2.1.622 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsin(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 78

2.1.623 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsin(a*x)^(1/2)/x,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^-m-a+b_arcsin-
c_x^-n.txt

Test file number 142

Integral number in file 79

2.1.624 Fricas [F(-2)]

Exception generated.

$$\int x^4 \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*arcsin(a*x)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^-m-a+b_arcsin-
c_x^-n.txt

Test file number 142

Integral number in file 80

2.1.625 Fricas [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 81

2.1.626 Fricas [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 82

2.1.627 Fricas [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 83

2.1.628 Fricas [F(-2)]

Exception generated.

$$\int \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 84

2.1.629 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(a*x)^(3/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 85

2.1.630 Fricas [F(-2)]

Exception generated.

$$\int x^4 \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 86

2.1.631 Fricas [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 87

2.1.632 Fricas [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 88

2.1.633 Fricas [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 89

2.1.634 Fricas [F(-2)]

Exception generated.

$$\int \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 90

2.1.635 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(a*x)^(5/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 91

2.1.636 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 92

2.1.637 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsin(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 93

2.1.638 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/arcsin(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 94

2.1.639 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 95

2.1.640 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 96

2.1.641 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 97

2.1.642 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 98

2.1.643 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^6}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^6/arcsin(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 99

2.1.644 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5/arcsin(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 100

2.1.645 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt
```

```
Test file number 142
```

```
Integral number in file 101
```

2.1.646 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt
```

```
Test file number 142
```

```
Integral number in file 102
```

2.1.647 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arcsin(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 103

2.1.648 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arcsin(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 104

2.1.649 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arcsin(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 105

2.1.650 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arcsin(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 106

2.1.651 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt
```

```
Test file number 142
```

```
Integral number in file 107
```

2.1.652 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt
```

```
Test file number 142
```

```
Integral number in file 108
```


2.1.653 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arcsin(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 109

2.1.654 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arcsin(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 110

2.1.655 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arcsin(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 111

2.1.656 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arcsin(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 112

2.1.657 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arcsin(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txtTest file number 142Integral number in file 113**2.1.658 Fricas [F(-2)]**

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arcsin(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txtTest file number 142Integral number in file 114

2.1.659 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arcsin(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 115

2.1.660 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arcsin(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 116

2.1.661 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arcsin(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 117

2.1.662 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arcsin(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 118

2.1.663 Fricas [F(-2)]

Exception generated.

$$\int (bx)^m \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x)^m*arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 125

2.1.664 Fricas [F(-2)]

Exception generated.

$$\int (bx)^m \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x)^m*arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 126

2.1.665 Fricas [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x)^m/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 127

2.1.666 Fricas [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x)^m/arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 128

2.1.667 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 173

2.1.668 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 174

2.1.669 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 175

2.1.670 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x))^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 176

2.1.671 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x))^(1/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 177

2.1.672 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 178

2.1.673 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 179

2.1.674 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 180

2.1.675 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x))^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 181

2.1.676 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x))^(3/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 182

2.1.677 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arcsin(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 183

2.1.678 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 184

2.1.679 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 185

2.1.680 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x))^(5/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 186

2.1.681 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^(5/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 187

2.1.682 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 188

2.1.683 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 189

2.1.684 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 190

2.1.685 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+b\arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 191

2.1.686 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{a+b\arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-
c_x^n.txt

Test file number 142

Integral number in file 192

2.1.687 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 193

2.1.688 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 194

2.1.689 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 195

2.1.690 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 196

2.1.691 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^-m-a+b_arcsin-
c_x-^n.txt
```

```
Test file number 142
```

```
Integral number in file 197
```

2.1.692 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^-m-a+b_arcsin-
c_x-^n.txt
```

```
Test file number 142
```

```
Integral number in file 198
```

2.1.693 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 199

2.1.694 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 200

2.1.695 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 201

2.1.696 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 202

2.1.697 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 431

2.1.698 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 432

2.1.699 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 433

2.1.700 Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 434

2.1.701 Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 435

2.1.702 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas
")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 436

2.1.703 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-^p-a+b_arcsin-c_x^-n.txt
```

```
Test file number 143
```

```
Integral number in file 437
```

2.1.704 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-^p-a+b_arcsin-c_x^-n.txt
```

```
Test file number 143
```

```
Integral number in file 438
```

2.1.705 Fracas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 439

2.1.706 Fracas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^2/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 440

2.1.707 Fracas [F(-2)]

Exception generated.

$$\int \left(-\frac{3x}{8(1-x^2)\sqrt{\arcsin(x)}} + \frac{x \arcsin(x)^{3/2}}{(1-x^2)^2} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arcsin(x)^(3/2)/(-x^2+1)^2-3/8*x/(-x^2+1)/arcsin(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 441

2.1.708 Fracas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 442

2.1.709 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 443

2.1.710 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 444

2.1.711 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 445

2.1.712 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 446

2.1.713 Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 447

2.1.714 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 448

2.1.715 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d+e}x²⁻
^{p-a+b}arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 449

2.1.716 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d+e}x²⁻
^{p-a+b}arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 450

2.1.717 Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 451

2.1.718 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 452

2.1.719 Fracas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d+e}x²⁻
^{p-a+b}_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 453

2.1.720 Fracas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d+e}x²⁻
^{p-a+b}_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 454

2.1.721 Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \sqrt{\arcsin\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2-x^2)^(3/2)*arcsin(x/a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 455

2.1.722 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \sqrt{\arcsin\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2-x^2)^(1/2)*arcsin(x/a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 456

2.1.723 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 458

2.1.724 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 459

2.1.725 Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \arcsin\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2-x^2)^(3/2)*arcsin(x/a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 460

2.1.726 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \arcsin\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2-x^2)^(1/2)*arcsin(x/a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 461

2.1.727 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 463
```

2.1.728 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arcsin(x)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(-x^2+1)^(1/2)/arcsin(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 464
```

2.1.729 Fracas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{5/2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 465

2.1.730 Fracas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{3/2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 466

2.1.731 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 467

2.1.732 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2cx^2}\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 468

2.1.733 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 469

2.1.734 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 470

2.1.735 Fracas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{5/2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 471

2.1.736 Fracas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{3/2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 472

2.1.737 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 473

2.1.738 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 475

2.1.739 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d+e}x²⁻
^{p-a+b}arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 476

2.1.740 Fracas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d+e}x²⁻
^{p-a+b}arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 477

2.1.741 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 478

2.1.742 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 480

2.1.743 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 481

2.1.744 Fracas [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x^2+d)^2*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 686

2.1.745 Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 687
```

2.1.746 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 688
```

2.1.747 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^(1/2)/(e*x^2+d),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 689

2.1.748 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^(1/2)/(e*x^2+d)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 690

2.1.749 Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)*(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 691

2.1.750 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 692

2.1.751 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^(3/2)/(e*x^2+d),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 693

2.1.752 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^(3/2)/(e*x^2+d)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 694

2.1.753 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 695

2.1.754 Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 696

2.1.755 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 697

2.1.756 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x^2+d)/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 698

2.1.757 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x^2+d)^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 699

2.1.758 Fracas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 700

2.1.759 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 701

2.1.760 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(e*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 702

2.1.761 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(e*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^m-d+e_x^2-
^p-a+b_arcsin-c_x^n.txt

Test file number 143

Integral number in file 703

2.1.762 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 155

2.1.763 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a+b\arcsin(c+dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 156

2.1.764 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a+b\arcsin(c+dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 157

2.1.765 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 158

2.1.766 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 159

2.1.767 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 160

2.1.768 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 161

2.1.769 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 162

2.1.770 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 163

2.1.771 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 164

2.1.772 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 165

2.1.773 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 166

2.1.774 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 167

2.1.775 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 168

2.1.776 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 169

2.1.777 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 170

2.1.778 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 171

2.1.779 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 \sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funct-
ions.txt

Test file number 144

Integral number in file 240

2.1.780 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 \sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funct-
ions.txt

Test file number 144

Integral number in file 241

2.1.781 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)\sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 242

2.1.782 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 243

2.1.783 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(c + dx)}}{ce + dex} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsin(d*x+c))^(1/2)/(d*e*x+c*e),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 244

2.1.784 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*e*x+c*e)^3*(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 245

2.1.785 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 246

2.1.786 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 247

2.1.787 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 248

2.1.788 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^{3/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(3/2)/(d*e*x+c*e),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 249

2.1.789 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3*(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 250

2.1.790 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 251

2.1.791 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 252

2.1.792 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 253

2.1.793 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^{5/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(d*x+c))^(5/2)/(d*e*x+c*e),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 254

2.1.794 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + b \arcsin(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2*(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 255

2.1.795 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + b \arcsin(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 256

2.1.796 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 257

2.1.797 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^{7/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(d*x+c))^(7/2)/(d*e*x+c*e),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 258

2.1.798 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 259

2.1.799 Fracas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 260

2.1.800 Fracas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 261

2.1.801 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 262

2.1.802 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 263

2.1.803 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(d*e*x+c*e)/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 264

2.1.804 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^4/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 265

2.1.805 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 266

2.1.806 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 267

2.1.807 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 268

2.1.808 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 269

2.1.809 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 270

2.1.810 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 271

2.1.811 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 272

2.1.812 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 273

2.1.813 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 274

2.1.814 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 275

2.1.815 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 276

2.1.816 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 277

2.1.817 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 278

2.1.818 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 279

2.1.819 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(d*e*x+c*e)/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 280

2.1.820 Fricas [F(-2)]

Exception generated.

$$\int x^m(a + b \arcsin(cx^n)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a+b*arcsin(c*x^n)),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 379

2.1.821 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arcsin(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arcsin(c*x^n)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 380

2.1.822 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arcsin(c*x^n)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 381

2.1.823 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(a+b*arcsin(c*x^n),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 382

2.1.824 Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx^n)}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x^n))/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 383

2.1.825 Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx^n)}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x^n))/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 384

2.1.826 Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx^n)}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(c*x^n))/x^3,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 385

2.1.827 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x^2+1))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 417

2.1.828 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x^2+1))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 418

2.1.829 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(1 + dx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x^2+1))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 419

2.1.830 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsin(d*x^2+1))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 420

2.1.831 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x^2+1))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 421

2.1.832 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x^2+1))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 422

2.1.833 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsin(d*x^2+1))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 423

2.1.834 Fricas [F(-2)]

Exception generated.

$$\int (a - b \arcsin(1 - dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(d*x^2-1))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 424

2.1.835 Fricas [F(-2)]

Exception generated.

$$\int (a - b \arcsin(1 - dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(d*x^2-1))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 425

2.1.836 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a - b \arcsin(1 - dx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsin(d*x^2-1))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 426

2.1.837 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - b \arcsin(1 - dx^2)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x^2-1))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 427

2.1.838 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - b \arcsin(1 - dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x^2-1))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 428

2.1.839 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - b \arcsin(1 - dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x^2-1))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 429

2.1.840 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - b \arcsin(1 - dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsin(d*x^2-1))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 430

2.1.841 Fricas [F(-2)]

Exception generated.

$$\int \arcsin (ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsin(c*exp(b*x+a)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 438

2.1.842 Fricas [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 74

2.1.843 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 75

2.1.844 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 76

2.1.845 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-c_x-[^]n.txt

Test file number 145

Integral number in file 77

2.1.846 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-c_x-[^]n.txt

Test file number 145

Integral number in file 78

2.1.847 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccos(a*x)^(1/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 79

2.1.848 Fricas [F(-2)]

Exception generated.

$$\int x^4 \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*arccos(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 80

2.1.849 Fricas [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 81

2.1.850 Fricas [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 82

2.1.851 Fricas [F(-2)]

Exception generated.

$$\int x \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arccos(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 83

2.1.852 Fricas [F(-2)]

Exception generated.

$$\int \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccos(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 84

2.1.853 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(a*x)^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 85

2.1.854 Fricas [F(-2)]

Exception generated.

$$\int x^4 \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 86

2.1.855 Fricas [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 87

2.1.856 Fricas [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 88

2.1.857 Fricas [F(-2)]

Exception generated.

$$\int x \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 89

2.1.858 Fricas [F(-2)]

Exception generated.

$$\int \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 90

2.1.859 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(a*x)^(5/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 91

2.1.860 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 92

2.1.861 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccos(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-
c_x^n.txt

Test file number 145

Integral number in file 93

2.1.862 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/arccos(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-
c_x^n.txt

Test file number 145

Integral number in file 94

2.1.863 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 95

2.1.864 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 96

2.1.865 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 97

2.1.866 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/arccos(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 98

2.1.867 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^6}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^6/arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 99

2.1.868 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5/arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 100

2.1.869 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 101

2.1.870 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 102

2.1.871 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 103

2.1.872 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 104

2.1.873 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 105

2.1.874 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arccos(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 106

2.1.875 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 107

2.1.876 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 108

2.1.877 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 109

2.1.878 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 110

2.1.879 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 111

2.1.880 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arccos(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 112

2.1.881 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arccos(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 113

2.1.882 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arccos(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 114

2.1.883 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arccos(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 115

2.1.884 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arccos(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 116

2.1.885 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccos(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 117

2.1.886 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arccos(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 118

2.1.887 Fricas [F(-2)]

Exception generated.

$$\int (bx)^m \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x)^m*arccos(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-^n.txt

Test file number 145

Integral number in file 125

2.1.888 Fricas [F(-2)]

Exception generated.

$$\int (bx)^m \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x)^m*arccos(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-^n.txt

Test file number 145

Integral number in file 126

2.1.889 Fricas [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x)^m/arccos(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 127

2.1.890 Fricas [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x)^m/arccos(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 128

2.1.891 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 173

2.1.892 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 174

2.1.893 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-c_x-[^]n.txt

Test file number 145

Integral number in file 175

2.1.894 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arccos(cx)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-c_x-[^]n.txt

Test file number 145

Integral number in file 176

2.1.895 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arccos(cx)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(1/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 177

2.1.896 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 178

2.1.897 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 179

2.1.898 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 180

2.1.899 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 181

2.1.900 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(3/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 182

2.1.901 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arccos(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 183

2.1.902 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arccos(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 184

2.1.903 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 185

2.1.904 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(5/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 186

2.1.905 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(c*x))^(5/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 187

2.1.906 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 188

2.1.907 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
c_x-[^]n.txt

Test file number 145

Integral number in file 189

2.1.908 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
c_x-[^]n.txt

Test file number 145

Integral number in file 190

2.1.909 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+b\arccos(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 191

2.1.910 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{a+b\arccos(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 192

2.1.911 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 193

2.1.912 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 194

2.1.913 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 195

2.1.914 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 196

2.1.915 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 197

2.1.916 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 198

2.1.917 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 199

2.1.918 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 200

2.1.919 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 201

2.1.920 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 202

2.1.921 Fricas [F(-2)]

Exception generated.

$$\int \arccos(a + bx)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(b*x+a)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 37

2.1.922 Fricas [F(-2)]

Exception generated.

$$\int \arccos(a + bx)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(b*x+a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 38

2.1.923 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\arccos(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(b*x+a)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 39

2.1.924 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arccos(a + bx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccos(b*x+a)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 40

2.1.925 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(a + bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccos(b*x+a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 41

2.1.926 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(a + bx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccos(b*x+a)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 42

2.1.927 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccos(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 43

2.1.928 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - b \arccos(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-b*arccos(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 44

2.1.929 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(a*x^n)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 69

2.1.930 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(d*x^2+1))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 87

2.1.931 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccos(d*x^2+1))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_funct-
ions.txt

Test file number 147

Integral number in file 88

2.1.932 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(1 + dx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccos(d*x^2+1))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_funct-
ions.txt

Test file number 147

Integral number in file 89

2.1.933 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arccos(d*x^2+1))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 90

2.1.934 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arccos(d*x^2+1))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 91

2.1.935 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arccos(d*x^2+1))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 92

2.1.936 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arccos(d*x^2+1))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 93

2.1.937 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(-1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccos(d*x^2-1))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_funct-
ions.txt

Test file number 147

Integral number in file 94

2.1.938 Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(-1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccos(d*x^2-1))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_funct-
ions.txt

Test file number 147

Integral number in file 95

2.1.939 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(-1 + dx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccos(d*x^2-1))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 96

2.1.940 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(-1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccos(d*x^2-1))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 97

2.1.941 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(-1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccos(d*x^2-1))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 98

2.1.942 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(-1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccos(d*x^2-1))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 99

2.1.943 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(-1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccos(d*x^2-1))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 100

2.1.944 Fracas [F(-2)]

Exception generated.

$$\int \arccos(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(c*exp(b*x+a)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 107

2.1.945 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arccos(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(-x^2+1)^(1/2)/arccos(x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 115

2.1.946 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*arctan(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 41

2.1.947 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^-m-a+b_arctan-c_x^n-p.txt`

Test file number 148

Integral number in file 42

2.1.948 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^-m-a+b_arctan-c_x^n-p.txt`

Test file number 148

Integral number in file 43

2.1.949 Fricas [F(-2)]

Exception generated.

$$\int x \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 44

2.1.950 Fricas [F(-2)]

Exception generated.

$$\int \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 45

2.1.951 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-
c_x^n-p.txt

Test file number 148

Integral number in file 46

2.1.952 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-
c_x^n-p.txt

Test file number 148

Integral number in file 47

2.1.953 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-
c_x^n-p.txt

Test file number 148

Integral number in file 48

2.1.954 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-
c_x^n-p.txt

Test file number 148

Integral number in file 49

2.1.955 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 50

2.1.956 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 51

2.1.957 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 52

2.1.958 Fricas [F(-2)]

Exception generated.

$$\int (d+ex)^2 (a+b \arctan(cx^3)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^2*(a+b*arctan(c*x^3)),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.3-d+e_x^m-a+b_arctan-c_x^n-p.txt

Test file number 149

Integral number in file 28

2.1.959 Fricas [F(-2)]

Exception generated.

$$\int (d+ex) (a+b \arctan(cx^3)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)*(a+b*arctan(c*x^3)),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.3-d+e_x^m-a+b_arctan-c_xⁿ-p.txt

Test file number 149

Integral number in file 29

2.1.960 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a²*x²+c)*arctan(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x^p.txt

Test file number 150

Integral number in file 687

2.1.961 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a²*x²+c)*arctan(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x^p.txt

Test file number 150

Integral number in file 688

2.1.962 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)*arctan(a*x)^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 689

2.1.963 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 691

2.1.964 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 692

2.1.965 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(1/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 693

2.1.966 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 695

2.1.967 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 696

2.1.968 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(1/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 697

2.1.969 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 699

2.1.970 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 700

2.1.971 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 701

2.1.972 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 703

2.1.973 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 704

2.1.974 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x^3/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 705

2.1.975 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^4(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x^4/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 706

2.1.976 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 708

2.1.977 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 709

2.1.978 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 710

2.1.979 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 711

2.1.980 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 712

2.1.981 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{\arctan(ax)}}{(c+a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 714

2.1.982 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 715

2.1.983 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 716

2.1.984 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 717

2.1.985 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 718

2.1.986 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 719

2.1.987 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 720

2.1.988 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 c x^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 722

2.1.989 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 c x^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 723

2.1.990 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 724

2.1.991 Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 726

2.1.992 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 727

2.1.993 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 728

2.1.994 Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 730

2.1.995 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 731

2.1.996 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 732

2.1.997 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 734

2.1.998 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 735

2.1.999 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 736

2.1.1000 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 737

2.1.1001 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 738

2.1.1002 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 739

2.1.1003 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 740

2.1.1004 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 741

2.1.1005 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 743

2.1.1006 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 744

2.1.1007 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 745

2.1.1008 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 746

2.1.1009 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 747

2.1.1010 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2 (c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 748

2.1.1011 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 750

2.1.1012 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 751

2.1.1013 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 752

2.1.1014 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 753

2.1.1015 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 754

2.1.1016 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 755

2.1.1017 Fricas [F(-2)]

Exception generated.

$$\int x^2(c+a^2cx^2)\arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 757

2.1.1018 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 758

2.1.1019 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 759

2.1.1020 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 760

2.1.1021 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 761

2.1.1022 Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 763

2.1.1023 Fricas [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 764

2.1.1024 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 765

2.1.1025 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 766

2.1.1026 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2)/x^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 767

2.1.1027 Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 769

2.1.1028 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 770

2.1.1029 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 771

2.1.1030 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 772

2.1.1031 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 773

2.1.1032 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 775

2.1.1033 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 776

2.1.1034 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 777

2.1.1035 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 779

2.1.1036 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 780

2.1.1037 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x^3/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 781

2.1.1038 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^4(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x^4/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 782

2.1.1039 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c+a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 784

2.1.1040 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 785

2.1.1041 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 786

2.1.1042 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 787

2.1.1043 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 788

2.1.1044 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 790

2.1.1045 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 791

2.1.1046 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 792

2.1.1047 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 793

2.1.1048 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 794

2.1.1049 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 795

2.1.1050 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 796

2.1.1051 Fricas [F(-2)]

Exception generated.

$$\int x^2\sqrt{c+a^2cx^2}\arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 798

2.1.1052 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2}\arctan(ax)^{3/2}dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 799

2.1.1053 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2}\arctan(ax)^{3/2}dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 800

2.1.1054 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 801

2.1.1055 Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 803

2.1.1056 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 804

2.1.1057 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 805

2.1.1058 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 806

2.1.1059 Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 808

2.1.1060 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 809

2.1.1061 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 810

2.1.1062 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 811

2.1.1063 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 813

2.1.1064 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 814

2.1.1065 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 815

2.1.1066 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 816

2.1.1067 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 817

2.1.1068 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 818

2.1.1069 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 819

2.1.1070 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 820

2.1.1071 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 822

2.1.1072 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 823

2.1.1073 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 824

2.1.1074 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 825

2.1.1075 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 826

2.1.1076 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2 (c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 827

2.1.1077 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 829

2.1.1078 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 830

2.1.1079 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 831

2.1.1080 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 832

2.1.1081 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 833

2.1.1082 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 834

2.1.1083 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 835

2.1.1084 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2 (c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 836

2.1.1085 Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 838

2.1.1086 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 839

2.1.1087 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 840

2.1.1088 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 841

2.1.1089 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 842

2.1.1090 Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 844

2.1.1091 Fricas [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 845

2.1.1092 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 846

2.1.1093 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 847

2.1.1094 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 848

2.1.1095 Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 850

2.1.1096 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 851

2.1.1097 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 852

2.1.1098 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 853

2.1.1099 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 854

2.1.1100 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 856

2.1.1101 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 857

2.1.1102 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 858

2.1.1103 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 860

2.1.1104 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x^2/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 861

2.1.1105 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x^3/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 862

2.1.1106 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^4(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x^4/(a^2*c*x^2+c),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 863

2.1.1107 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c+a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 865

2.1.1108 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 866

2.1.1109 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 867

2.1.1110 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 868

2.1.1111 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 869

2.1.1112 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 871

2.1.1113 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 872

2.1.1114 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 873

2.1.1115 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 874

2.1.1116 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 875

2.1.1117 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 876

2.1.1118 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 877

2.1.1119 Fricas [F(-2)]

Exception generated.

$$\int x^2\sqrt{c+a^2cx^2}\arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 879

2.1.1120 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 880

2.1.1121 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 881

2.1.1122 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 882

2.1.1123 Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 884

2.1.1124 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 885

2.1.1125 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 886

2.1.1126 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 887

2.1.1127 Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 889

2.1.1128 Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 890

2.1.1129 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 891

2.1.1130 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 892

2.1.1131 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 894

2.1.1132 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 895

2.1.1133 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 896

2.1.1134 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 897

2.1.1135 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 898

2.1.1136 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 899

2.1.1137 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 900

2.1.1138 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 901

2.1.1139 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 903

2.1.1140 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 904

2.1.1141 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 905

2.1.1142 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 906

2.1.1143 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{5/2}}{(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 908

2.1.1144 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 909

2.1.1145 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 910

2.1.1146 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 911

2.1.1147 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 912

2.1.1148 Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 913

2.1.1149 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c+a^2cx^2)}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 915

2.1.1150 Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 916

2.1.1151 Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)/x/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 917

2.1.1152 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 919

2.1.1153 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 920

2.1.1154 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 921

2.1.1155 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 923

2.1.1156 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 924

2.1.1157 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 925

2.1.1158 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 927

2.1.1159 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2) \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 929

2.1.1160 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 931

2.1.1161 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 932

2.1.1162 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 933

2.1.1163 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 934

2.1.1164 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 935

2.1.1165 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c+a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 937

2.1.1166 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 938

2.1.1167 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 939

2.1.1168 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 940

2.1.1169 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 941

2.1.1170 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 942

2.1.1171 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 943

2.1.1172 Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 945

2.1.1173 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 946

2.1.1174 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{x \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 947

2.1.1175 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 949

2.1.1176 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 950

2.1.1177 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{x \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 951

2.1.1178 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 953

2.1.1179 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 954

2.1.1180 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 955

2.1.1181 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 957

2.1.1182 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 958

2.1.1183 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 959

2.1.1184 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 961

2.1.1185 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 962

2.1.1186 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 963

2.1.1187 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 964

2.1.1188 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 966

2.1.1189 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 967

2.1.1190 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 968

2.1.1191 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 969

2.1.1192 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 970

2.1.1193 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 971

2.1.1194 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 973

2.1.1195 Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 974

2.1.1196 Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)/x/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 975

2.1.1197 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 977

2.1.1198 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 978

2.1.1199 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 979

2.1.1200 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 981

2.1.1201 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 982

2.1.1202 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 983

2.1.1203 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 985

2.1.1204 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 987

2.1.1205 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c+a^2cx^2)^2\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 989

2.1.1206 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 990

2.1.1207 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 991

2.1.1208 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 992

2.1.1209 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 993

2.1.1210 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 994

2.1.1211 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 995

2.1.1212 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 996

2.1.1213 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 997

2.1.1214 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 999

2.1.1215 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1000

2.1.1216 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1001

2.1.1217 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1002

2.1.1218 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1003

2.1.1219 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1004

2.1.1220 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1005

2.1.1221 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1006

2.1.1222 Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+a^2cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1008

2.1.1223 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+a^2cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1009

2.1.1224 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1010

2.1.1225 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1012

2.1.1226 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1013

2.1.1227 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1014

2.1.1228 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1016

2.1.1229 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1017

2.1.1230 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1018

2.1.1231 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2 cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1020

2.1.1232 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1021

2.1.1233 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1022

2.1.1234 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{c + a^2 c x^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1023

2.1.1235 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 c x^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1025

2.1.1236 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1026

2.1.1237 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1027

2.1.1238 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1028

2.1.1239 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1029

2.1.1240 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1030

2.1.1241 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1031

2.1.1242 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 c x^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1032

2.1.1243 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 c x^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1034

2.1.1244 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1035

2.1.1245 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1036

2.1.1246 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1037

2.1.1247 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1038

2.1.1248 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 c x^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1039

2.1.1249 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 c x^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1040

2.1.1250 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1041

2.1.1251 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 cx^2)}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1043

2.1.1252 Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1044

2.1.1253 Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)/x/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1045

2.1.1254 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1047

2.1.1255 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1048

2.1.1256 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1049

2.1.1257 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1051

2.1.1258 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1052

2.1.1259 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1053

2.1.1260 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1055

2.1.1261 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1057

2.1.1262 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1059

2.1.1263 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1060

2.1.1264 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1061

2.1.1265 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1062

2.1.1266 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1063

2.1.1267 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1064

2.1.1268 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1065

2.1.1269 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1066

2.1.1270 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1068

2.1.1271 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1069

2.1.1272 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1070

2.1.1273 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1071

2.1.1274 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1072

2.1.1275 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1073

2.1.1276 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1074

2.1.1277 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1075

2.1.1278 Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+a^2cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1077

2.1.1279 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+a^2cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1078

2.1.1280 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1079

2.1.1281 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1081

2.1.1282 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1082

2.1.1283 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1083

2.1.1284 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1085

2.1.1285 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1086

2.1.1286 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1087

2.1.1287 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2 cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1089

2.1.1288 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c+a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1090

2.1.1289 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c+a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1091

2.1.1290 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{c + a^2 c x^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1092

2.1.1291 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 c x^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1094

2.1.1292 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1095

2.1.1293 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1096

2.1.1294 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1097

2.1.1295 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1098

2.1.1296 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1099

2.1.1297 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1100

2.1.1298 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1101

2.1.1299 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1103

2.1.1300 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1104

2.1.1301 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1105

2.1.1302 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1106

2.1.1303 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1107

2.1.1304 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1108

2.1.1305 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1109

2.1.1306 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 c x^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1110

2.1.1307 Fricas [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{\arctan(a + bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x+a)^2*arctan(b*x+a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.5_u-a+b_arctan-c+d_x-^p.txt

Test file number 151

Integral number in file 23

2.1.1308 Fricas [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{\cot^{-1}(a + bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x+a)^2*arccot(b*x+a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotan-
gent_functions.txt

Test file number 154

Integral number in file 128

2.1.1309 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sec^{-1}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsec(a*x^n)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.2_Inverse_secant_func-
tions.txt

Test file number 157

Integral number in file 17

2.1.1310 Fricas [F(-2)]

Exception generated.

$$\int \sec^{-1}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsec(c*exp(b*x+a)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.2_Inverse_secant_functions.txt

Test file number 157

Integral number in file 42

2.1.1311 Fricas [F(-2)]

Exception generated.

$$\int \frac{\csc^{-1}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccsc(a*x^n)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.2_Inverse_cosecant_functions.txt

Test file number 159

Integral number in file 16

2.1.1312 Fricas [F(-2)]

Exception generated.

$$\int \csc^{-1}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccsc(c*exp(b*x+a)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.2_Inverse_cosecant_functions.txt

Test file number 159

Integral number in file 40

2.1.1313 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sinh^{\frac{3}{2}}(x)}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(sinh(x)^(3/2)/x^3,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 67

2.1.1314 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sinh^{\frac{3}{2}}(x)} - x\sqrt{\sinh(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/sinh(x)^(3/2)-x*sinh(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 68

2.1.1315 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sinh^{\frac{7}{2}}(x)} + \frac{3}{5}x\sqrt{\sinh(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/sinh(x)^(7/2)+3/5*x*sinh(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 70

2.1.1316 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\sinh^{\frac{3}{2}}(x)} - x^2 \sqrt{\sinh(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/sinh(x)^(3/2)-x^2*sinh(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 71

2.1.1317 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{3}{2}}(x)} + \frac{1}{3}x \sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/csch(x)^(3/2)+1/3*x*csch(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 92

2.1.1318 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{5}{2}}(x)} + \frac{3x}{5\sqrt{\operatorname{csch}(x)}} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/csch(x)^(5/2)+3/5*x/csch(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 93

2.1.1319 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{7}{2}}(x)} - \frac{5}{21}x\sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/csch(x)^(7/2)-5/21*x*csch(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 94

2.1.1320 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\operatorname{csch}^{\frac{3}{2}}(x)} + \frac{1}{3}x^2\sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/csch(x)^(3/2)+1/3*x^2*csch(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 95

2.1.1321 Fricas [F(-2)]

Exception generated.

$$\int x^4\sqrt{a+ia\sinh(e+fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+I*a*sinh(f*x+e))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 118

2.1.1322 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + ia \sinh(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+I*a*sinh(f*x+e))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 119

2.1.1323 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + ia \sinh(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+I*a*sinh(f*x+e))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 120

2.1.1324 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a + ia \sinh(e + fx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+I*a*sinh(f*x+e))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 121

2.1.1325 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \sinh(e + fx)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(f*x+e))^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 122

2.1.1326 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \sinh(e + fx)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(f*x+e))^(1/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 123

2.1.1327 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \sinh(e + fx)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(f*x+e))^(1/2)/x^3,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 124

2.1.1328 Fricas [F(-2)]

Exception generated.

$$\int x^3(a + ia \sinh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+I*a*sinh(f*x+e))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 125

2.1.1329 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + ia \sinh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+I*a*sinh(f*x+e))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 126

2.1.1330 Fricas [F(-2)]

Exception generated.

$$\int x(a + ia \sinh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+I*a*sinh(f*x+e))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 127

2.1.1331 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(e + fx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(f*x+e))^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 128

2.1.1332 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(e + fx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(f*x+e))^(3/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 129

2.1.1333 Fricas [F(-2)]

Exception generated.

$$\int x^3(a + ia \sinh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+I*a*sinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 130

2.1.1334 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + ia \sinh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+I*a*sinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 131

2.1.1335 Fricas [F(-2)]

Exception generated.

$$\int x(a + ia \sinh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+I*a*sinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 132

2.1.1336 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(c + dx))^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(d*x+c))^(5/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 133

2.1.1337 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(c + dx))^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(d*x+c))^(5/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 134

2.1.1338 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(c + dx))^{5/2}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(d*x+c))^(5/2)/x^3,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 135

2.1.1339 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{a + ia \sinh(e + fx)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+I*a*sinh(f*x+e))^(1/3)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh^n.txt

Test file number 160

Integral number in file 150

2.1.1340 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sinh^5(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*sinh(x)^5),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164Integral number in file 267**2.1.1341 Fricas [F(-2)]**

Exception generated.

$$\int \frac{\coth(x)}{\sqrt{a + b \sinh^3(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)/(a+b*sinh(x)^3)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: failed of mode Union(SparseUnivariatePolynomial(Expression(Integer)),failed) can not be coerced to mode SparseUnivariatePolynomial(Expression(Integer))

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164Integral number in file 522

2.1.1342 Fricas [F(-2)]

Exception generated.

$$\int \frac{\cosh^{\frac{3}{2}}(x)}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(cosh(x)^(3/2)/x^3,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh^n.txt

Test file number 165

Integral number in file 70

2.1.1343 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cosh^{\frac{3}{2}}(x)} + x\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(x/cosh(x)^(3/2)+x*cosh(x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh^n.txt

Test file number 165

Integral number in file 71

2.1.1344 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cosh^{\frac{7}{2}}(x)} + \frac{3}{5}x\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/cosh(x)^(7/2)+3/5*x*cosh(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-[^]m-a+b_cosh-[^]n.txt

Test file number 165

Integral number in file 73

2.1.1345 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\cosh^{\frac{3}{2}}(x)} + x^2\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/cosh(x)^(3/2)+x^2*cosh(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-[^]m-a+b_cosh-[^]n.txt

Test file number 165

Integral number in file 74

2.1.1346 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{3}{2}}(x)} - \frac{1}{3}x\sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/sech(x)^(3/2)-1/3*x*sech(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b}_cosh-ⁿ.txt

Test file number 165

Integral number in file 95

2.1.1347 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{5}{2}}(x)} - \frac{3x}{5\sqrt{\operatorname{sech}(x)}} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/sech(x)^(5/2)-3/5*x/sech(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b}_cosh-ⁿ.txt

Test file number 165

Integral number in file 96

2.1.1348 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{7}{2}}(x)} - \frac{5}{21} x \sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/sech(x)^(7/2)-5/21*x*sech(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b_cosh}^{n.txt}

Test file number 165

Integral number in file 97

2.1.1349 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\operatorname{sech}^{\frac{3}{2}}(x)} - \frac{1}{3} x^2 \sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/sech(x)^(3/2)-1/3*x^2*sech(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b_cosh}^{n.txt}

Test file number 165

Integral number in file 98

2.1.1350 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + a \cosh(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+a*cosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 121

2.1.1351 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + a \cosh(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+a*cosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 122

2.1.1352 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + a \cosh(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+a*cosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 123

2.1.1353 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(c + dx)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*cosh(d*x+c))^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 124

2.1.1354 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(c + dx)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*cosh(d*x+c))^(1/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh^n.txt

Test file number 165

Integral number in file 125

2.1.1355 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(c + dx)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*cosh(d*x+c))^(1/2)/x^3,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh^n.txt

Test file number 165

Integral number in file 126

2.1.1356 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + a \cosh(x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+a*cosh(x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 127

2.1.1357 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + a \cosh(x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+a*cosh(x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 128

2.1.1358 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + a \cosh(x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+a*cosh(x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh^n.txt

Test file number 165

Integral number in file 129

2.1.1359 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(x)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*cosh(x))^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh^n.txt

Test file number 165

Integral number in file 130

2.1.1360 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(x)}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*cosh(x))^(1/2)/x^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 131

2.1.1361 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(x)}}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*cosh(x))^(1/2)/x^3,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 132

2.1.1362 Fricas [F(-2)]

Exception generated.

$$\int x^3(a + a \cosh(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+a*cosh(x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 133

2.1.1363 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + a \cosh(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+a*cosh(x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 134

2.1.1364 Fricas [F(-2)]

Exception generated.

$$\int x(a + a \cosh(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+a*cosh(x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 135

2.1.1365 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cosh(x))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*cosh(x))^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 136

2.1.1366 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cosh(x))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*cosh(x))^(3/2)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 137

2.1.1367 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cosh(x))^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*cosh(x))^(3/2)/x^3,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 138

2.1.1368 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{a + a \cosh(c + dx)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*cosh(d*x+c))^(1/3)/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_coshⁿ.txt

Test file number 165

Integral number in file 149

2.1.1369 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cosh^{\frac{3}{2}}(x)} + x \sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/cosh(x)^(3/2)+x*cosh(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_co-
sine_functions.txt

Test file number 169

Integral number in file 329

2.1.1370 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cosh^{\frac{7}{2}}(x)} + \frac{3}{5}x\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/cosh(x)^(7/2)+3/5*x*cosh(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_co-
sine_functions.txt

Test file number 169

Integral number in file 331

2.1.1371 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\cosh^{\frac{3}{2}}(x)} + x^2\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/cosh(x)^(3/2)+x^2*cosh(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_co-
sine_functions.txt

Test file number 169

Integral number in file 332

2.1.1372 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh^5(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*cosh(x)^5),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.7_hyper^m-a+b_coshⁿ-
p.txt

Test file number 170Integral number in file 64**2.1.1373 Fricas [F(-2)]**

Exception generated.

$$\int \frac{1}{a - b \cosh^5(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a-b*cosh(x)^5),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.7_hyper^m-a+b_coshⁿ-
p.txt

Test file number 170Integral number in file 67**2.1.1374 Fricas [F(-2)]**

Exception generated.

$$\int \frac{\tanh(x)}{\sqrt{a + b \cosh^3(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(tanh(x)/(a+b*cosh(x)^3)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: failed of mode Union(SparseUnivariatePolynomial(Expression(Integer)),failed) cannot be coerced to mode SparseUnivariatePolynomial(Expression(Integer))

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.7_hyper^m-a+b_coshⁿ-^p.txt

Test file number 170

Integral number in file 82

2.1.1375 Fricas [F(-2)]

Exception generated.

$$\int (c + dx)(b \tanh(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)*(b*tanh(f*x+e))^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x^m-a+b_tanhⁿ.txt

Test file number 171

Integral number in file 16

2.1.1376 Fricas [F(-2)]

Exception generated.

$$\int (c + dx)(b \tanh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)*(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x^m-a+b_tanhⁿ.txt

Test file number 171

Integral number in file 17

2.1.1377 Fricas [F(-2)]

Exception generated.

$$\int (c + dx) \sqrt{b \tanh(e + fx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x+c)*(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 18

2.1.1378 Fricas [F(-2)]

Exception generated.

$$\int \frac{c + dx}{\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x+c)/(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 19

2.1.1379 Fricas [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(b \tanh(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x+c)/(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 20

2.1.1380 Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^2 (b \tanh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x+c)^2*(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 21

2.1.1381 Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^2 \sqrt{b \tanh(e + fx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x+c)^2*(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 22

2.1.1382 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x+c)^2/(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 23

2.1.1383 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(b \tanh(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x+c)^2/(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-
^n.txt

Test file number 171

Integral number in file 24

2.1.1384 Fricas [F(-2)]

Exception generated.

$$\int \frac{(b \tanh(e + fx))^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*tanh(f*x+e))^(3/2)/(d*x+c),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-
^n.txt

Test file number 171

Integral number in file 25

2.1.1385 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{b \tanh(e + fx)}}{c + dx} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*tanh(f*x+e))^(1/2)/(d*x+c),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 26

2.1.1386 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + dx)\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*x+c)/(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 27

2.1.1387 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c+dx)(b \tanh(e+fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*x+c)/(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-^n.txt

Test file number 171

Integral number in file 28

2.1.1388 Fricas [F(-2)]

Exception generated.

$$\int (b \coth^m(c+dx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*coth(d*x+c)^m)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 51

2.1.1389 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{b \coth^m(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*coth(d*x+c)^m)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 52

2.1.1390 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \coth^m(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c)^m)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 53

2.1.1391 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth^m(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c)^m)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 54

2.1.1392 Fricas [F(-2)]

Exception generated.

$$\int (b \coth^m(c + dx))^{4/3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*coth(d*x+c)^m)^(4/3),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 55

2.1.1393 Fricas [F(-2)]

Exception generated.

$$\int (b \coth^m(c + dx))^{2/3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*coth(d*x+c)^m)^(2/3),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 56

2.1.1394 Fricas [F(-2)]

Exception generated.

$$\int \sqrt[3]{b \coth^m(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*coth(d*x+c)^m)^(1/3),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 57

2.1.1395 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b \coth^m(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c)^m)^(1/3),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 58

2.1.1396 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth^m(c + dx))^{2/3}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c)^m)^(2/3),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 59

2.1.1397 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth^m(c + dx))^{4/3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*coth(d*x+c)^m)^(4/3),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 60

2.1.1398 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{3/2}(x)} - \frac{1}{3}x\sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/sech(x)^(3/2)-1/3*x*sech(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.1-c+d_x^m-a+b_sech-
^n.txt

Test file number 177

Integral number in file 13

2.1.1399 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{5}{2}}(x)} - \frac{3x}{5\sqrt{\operatorname{sech}(x)}} \right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/sech(x)^(5/2)-3/5*x/sech(x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.1-c+d_x-^m-a+b_sech-ⁿ.txt

Test file number 177

Integral number in file 14

2.1.1400 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{7}{2}}(x)} - \frac{5}{21}x\sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/sech(x)^(7/2)-5/21*x*sech(x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.1-c+d_x-^m-a+b_sech-ⁿ.txt

Test file number 177

Integral number in file 15

2.1.1401 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\operatorname{sech}^{\frac{3}{2}}(x)} - \frac{1}{3}x^2\sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/sech(x)^(3/2)-1/3*x^2*sech(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.1-c+d_x-^m-a+b_sech-ⁿ.txt

Test file number 177

Integral number in file 16

2.1.1402 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{3}{2}}(x)} + \frac{1}{3}x\sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/csch(x)^(3/2)+1/3*x*csch(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.1-c+d_x-^m-a+b_csch-ⁿ.txt

Test file number 181

Integral number in file 13

2.1.1403 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{5}{2}}(x)} + \frac{3x}{5\sqrt{\operatorname{csch}(x)}} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/csch(x)^(5/2)+3/5*x/csch(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.1-c+d_x-^m-a+b_csch-^n.txt

Test file number 181

Integral number in file 14

2.1.1404 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{7}{2}}(x)} - \frac{5}{21}x\sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/csch(x)^(7/2)-5/21*x*csch(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.1-c+d_x-^m-a+b_csch-^n.txt

Test file number 181

Integral number in file 15

2.1.1405 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\operatorname{csch}^{\frac{3}{2}}(x)} + \frac{1}{3}x^2\sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/csch(x)^(3/2)+1/3*x^2*csch(x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.1-c+d_x-^m-a+b_csch-^n.txt

Test file number 181

Integral number in file 16

2.1.1406 Fricas [F(-2)]

Exception generated.

$$\int x \cosh^{\frac{5}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)^(5/2)*sinh(b*x+a),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 528

2.1.1407 Fricas [F(-2)]

Exception generated.

$$\int x \cosh^{\frac{3}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cosh(b*x+a)^(3/2)*sinh(b*x+a),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 529

2.1.1408 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\cosh(a + bx)} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*sinh(b*x+a)*cosh(b*x+a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 530

2.1.1409 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\sqrt{\cosh(a + bx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sinh(b*x+a)/cosh(b*x+a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 531

2.1.1410 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\cosh^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sinh(b*x+a)/cosh(b*x+a)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 532

2.1.1411 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\cosh^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sinh(b*x+a)/cosh(b*x+a)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 533

2.1.1412 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\cosh^{\frac{7}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*sinh(b*x+a)/cosh(b*x+a)^(7/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 534

2.1.1413 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\cosh^{\frac{9}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*sinh(b*x+a)/cosh(b*x+a)^(9/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 535

2.1.1414 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{sech}^{\frac{9}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*sech(b*x+a)^(9/2)*sinh(b*x+a),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 536

2.1.1415 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{sech}^{\frac{7}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*sech(b*x+a)^(7/2)*sinh(b*x+a),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 537

2.1.1416 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{sech}^{\frac{5}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*sech(b*x+a)^(5/2)*sinh(b*x+a),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 538

2.1.1417 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{sech}^{\frac{3}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*sech(b*x+a)^(3/2)*sinh(b*x+a),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 539

2.1.1418 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\operatorname{sech}(a + bx)} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*sech(b*x+a)^(1/2)*sinh(b*x+a),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 540

2.1.1419 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\sqrt{\operatorname{sech}(a + bx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*sinh(b*x+a)/sech(b*x+a)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 541

2.1.1420 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\operatorname{sech}^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*sinh(b*x+a)/sech(b*x+a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 542

2.1.1421 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\operatorname{sech}^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*sinh(b*x+a)/sech(b*x+a)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 543

2.1.1422 Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sinh^{\frac{5}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)*sinh(b*x+a)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 544

2.1.1423 Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sinh^{\frac{3}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cosh(b*x+a)*sinh(b*x+a)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 545

2.1.1424 Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sqrt{\sinh(a + bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cosh(b*x+a)*sinh(b*x+a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 546

2.1.1425 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sqrt{\sinh(a + bx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 547

2.1.1426 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sinh^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 548

2.1.1427 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sinh^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 549

2.1.1428 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sinh^{\frac{7}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 550

2.1.1429 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sinh^{\frac{9}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(9/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 551

2.1.1430 Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \operatorname{csch}^{\frac{9}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)*csch(b*x+a)^(9/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 552

2.1.1431 Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \operatorname{csch}^{\frac{7}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cosh(b*x+a)*csch(b*x+a)^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 553

2.1.1432 Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \operatorname{csch}^{\frac{5}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cosh(b*x+a)*csch(b*x+a)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 554

2.1.1433 Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \operatorname{csch}^{\frac{3}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cosh(b*x+a)*csch(b*x+a)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 555

2.1.1434 Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sqrt{\operatorname{csch}(a + bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cosh(b*x+a)*csch(b*x+a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 556

2.1.1435 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sqrt{\operatorname{csch}(a + bx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)/csch(b*x+a)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (has polynomial part)`

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 557

2.1.1436 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\operatorname{csch}^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*cosh(b*x+a)/csch(b*x+a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (has polynomial part)`

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 558

2.1.1437 Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\operatorname{csch}^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*cosh(b*x+a)/csch(b*x+a)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 559

2.1.1438 Fricas [F(-2)]

Exception generated.

$$\int \left(-\frac{3d^2 e^{a+bx}}{4(b^2 - \frac{9d^2}{4}) \sqrt{\sinh(c+dx)}} + e^{a+bx} \sinh^{\frac{3}{2}}(c+dx) \right) dx$$

= Exception raised: TypeError

```
[In] integrate(exp(b*x+a)*sinh(d*x+c)^(3/2)-3/4*d^2*exp(b*x+a)/(b^2-9/4*d^2)/sinh(d*x+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 966

2.1.1439 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\operatorname{csch}(x)}(x \cosh(x) - 4\operatorname{sech}(x) \tanh(x)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(x)^(1/2)*(x*cosh(x)-4*sech(x)*tanh(x)),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 1042

2.1.1440 Fricas [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 74

2.1.1441 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 75

2.1.1442 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 76

2.1.1443 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 77

2.1.1444 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 78

2.1.1445 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 79

2.1.1446 Fricas [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 80

2.1.1447 Fricas [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arcsinh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 81

2.1.1448 Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arcsinh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 82

2.1.1449 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 83

2.1.1450 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 84

2.1.1451 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 85

2.1.1452 Fricas [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 86

2.1.1453 Fricas [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arcsinh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 87

2.1.1454 Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arcsinh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 88

2.1.1455 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 89

2.1.1456 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 90

2.1.1457 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(5/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-ⁿ.txt

Test file number 186

Integral number in file 91

2.1.1458 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-ⁿ.txt

Test file number 186

Integral number in file 92

2.1.1459 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 93

2.1.1460 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 94

2.1.1461 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 95

2.1.1462 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 96

2.1.1463 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 97

2.1.1464 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 98

2.1.1465 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 99

2.1.1466 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 100

2.1.1467 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 101

2.1.1468 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 102

2.1.1469 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 103

2.1.1470 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 104

2.1.1471 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 105

2.1.1472 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 106

2.1.1473 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 107

2.1.1474 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 108

2.1.1475 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 109

2.1.1476 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 110

2.1.1477 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 111

2.1.1478 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 112

2.1.1479 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 113

2.1.1480 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 114

2.1.1481 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 115

2.1.1482 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 116

2.1.1483 Fricas [F(-2)]

Exception generated.

$$\int x^m \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*arcsinh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 123

2.1.1484 Fricas [F(-2)]

Exception generated.

$$\int x^m \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*arcsinh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 124

2.1.1485 Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 125

2.1.1486 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 126

2.1.1487 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 127

2.1.1488 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 136

2.1.1489 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a + b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 137

2.1.1490 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 138

2.1.1491 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 139

2.1.1492 Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 140

2.1.1493 Fricas [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 141

2.1.1494 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \operatorname{arcsinh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 142

2.1.1495 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \operatorname{arcsinh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 143

2.1.1496 Fricas [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arcsinh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 144

2.1.1497 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 145

2.1.1498 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 146

2.1.1499 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 147

2.1.1500 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 148

2.1.1501 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 149

2.1.1502 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 150

2.1.1503 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 151

2.1.1504 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 152

2.1.1505 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 153

2.1.1506 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arcsinh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arcsinh(c*x))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 154

2.1.1507 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsinh(c*x))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 155

2.1.1508 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(c*x))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 156

2.1.1509 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 462

2.1.1510 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 463

2.1.1511 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 464

2.1.1512 Fricas [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 465

2.1.1513 Fricas [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{x(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 466

2.1.1514 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d + c^2 dx^2)^2}{(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas
")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 467

2.1.1515 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 468

2.1.1516 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 469

2.1.1517 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 470

2.1.1518 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{x(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^2/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 471

2.1.1519 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 472

2.1.1520 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(1/2)*arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 473

2.1.1521 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}(ax)}}{\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsinh(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 474

2.1.1522 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}(ax)}}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsinh(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 475

2.1.1523 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}(ax)}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 476

2.1.1524 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 477

2.1.1525 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2 cx^2} \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 478

2.1.1526 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{3/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 479

2.1.1527 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 480

2.1.1528 Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 481

2.1.1529 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2 cx^2} \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsinh(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 482

2.1.1530 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{5/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsinh(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 483

2.1.1531 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsinh(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 484

2.1.1532 Fricas [F(-2)]

Exception generated.

$$\int (a^2 + x^2)^{3/2} \sqrt{\operatorname{arcsinh}\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2+x^2)^(3/2)*arcsinh(x/a)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 485

2.1.1533 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 + x^2} \sqrt{\operatorname{arcsinh}\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2+x^2)^(1/2)*arcsinh(x/a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 486

2.1.1534 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}\left(\frac{x}{a}\right)}}{(a^2 + x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsinh(x/a)^(1/2)/(a^2+x^2)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 488

2.1.1535 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}\left(\frac{x}{a}\right)}}{(a^2 + x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsinh(x/a)^(1/2)/(a^2+x^2)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt
```

Test file number 187

Integral number in file 489

2.1.1536 Fricas [F(-2)]

Exception generated.

$$\int (a^2 + x^2)^{3/2} \operatorname{arcsinh}\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2+x^2)^(3/2)*arcsinh(x/a)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt
```

Test file number 187

Integral number in file 490

2.1.1537 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 + x^2} \operatorname{arcsinh}\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(x/a)^(3/2)*(a^2+x^2)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 491

2.1.1538 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}\left(\frac{x}{a}\right)^{3/2}}{(a^2 + x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(x/a)^(3/2)/(a^2+x^2)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 493

2.1.1539 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1+x^2}\sqrt{\operatorname{arcsinh}(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(x^2+1)^(1/2)/arcsinh(x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 494

2.1.1540 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c+a^2cx^2)^{5/2}}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(5/2)/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 495

2.1.1541 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)/arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt
```

Test file number 187

Integral number in file 496

2.1.1542 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(1/2)/arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt
```

Test file number 187

Integral number in file 497

2.1.1543 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a^2*c*x^2+c)^(1/2)/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 498

2.1.1544 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a^2*c*x^2+c)^(3/2)/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 499

2.1.1545 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(5/2)/arcsinh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 500

2.1.1546 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)/arcsinh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 501

2.1.1547 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/arcsinh(a*x)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 502

2.1.1548 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/arcsinh(a*x)^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 503

2.1.1549 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a^2*c*x^2+c)^(3/2)/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 505

2.1.1550 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a^2*c*x^2+c)^(5/2)/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 506

2.1.1551 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/arcsinh(a*x)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 507

2.1.1552 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/arcsinh(a*x)^(5/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 508

2.1.1553 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a^2*c*x^2+c)^(3/2)/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 510

2.1.1554 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a^2*c*x^2+c)^(5/2)/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 511

2.1.1555 Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 \sqrt{a + b \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)^2*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt
```

Test file number 187

Integral number in file 629

2.1.1556 Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) \sqrt{a + b \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt
```

Test file number 187

Integral number in file 630

2.1.1557 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 631

2.1.1558 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^(1/2)/(e*x^2+d),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 632

2.1.1559 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^(1/2)/(e*x^2+d)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 633

2.1.1560 Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + b \operatorname{arcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 634

2.1.1561 Fricas [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 635

2.1.1562 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^(3/2)/(e*x^2+d),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 636

2.1.1563 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{3/2}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^(3/2)/(e*x^2+d)^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 637

2.1.1564 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x^2+d)^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 638

2.1.1565 Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x^2+d)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 639

2.1.1566 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 640

2.1.1567 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x^2+d)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 641

2.1.1568 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 \sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x^2+d)^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 642

2.1.1569 Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 643

2.1.1570 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 644

2.1.1571 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(e*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 645

2.1.1572 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(e*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 646

2.1.1573 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 98

2.1.1574 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 99

2.1.1575 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 100

2.1.1576 Fricas [F(-2)]

Exception generated.

$$\int x(a + b \operatorname{arcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 101

2.1.1577 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 102

2.1.1578 Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 103

2.1.1579 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 104

2.1.1580 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + \operatorname{barcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 105

2.1.1581 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 106

2.1.1582 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 107

2.1.1583 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 108

2.1.1584 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 109

2.1.1585 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 110

2.1.1586 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 111

2.1.1587 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 112

2.1.1588 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 113

2.1.1589 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 180

2.1.1590 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 181

2.1.1591 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt`

Test file number 188

Integral number in file 182

2.1.1592 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex) \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt`

Test file number 188

Integral number in file 183

2.1.1593 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 184

2.1.1594 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(c + dx)}}{ce + dex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(1/2)/(d*e*x+c*e),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 185

2.1.1595 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^4*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 186

2.1.1596 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 187

2.1.1597 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 188

2.1.1598 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 189

2.1.1599 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 190

2.1.1600 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^{3/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(3/2)/(d*e*x+c*e),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 191

2.1.1601 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^4*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 192

2.1.1602 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 193

2.1.1603 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 194

2.1.1604 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 195

2.1.1605 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 196

2.1.1606 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^{5/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(5/2)/(d*e*x+c*e),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 197

2.1.1607 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 (a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^4*(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 198

2.1.1608 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3*(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 199

2.1.1609 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 200

2.1.1610 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 201

2.1.1611 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 202

2.1.1612 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^{7/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^(7/2)/(d*e*x+c*e),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 203

2.1.1613 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^4/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 204

2.1.1614 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 205

2.1.1615 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 206

2.1.1616 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 207

2.1.1617 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 208

2.1.1618 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 209

2.1.1619 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 210

2.1.1620 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 211

2.1.1621 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 212

2.1.1622 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 213

2.1.1623 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 214

2.1.1624 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 215

2.1.1625 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 216

2.1.1626 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 217

2.1.1627 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 218

2.1.1628 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 219

2.1.1629 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 220

2.1.1630 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 221

2.1.1631 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 222

2.1.1632 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 223

2.1.1633 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 224

2.1.1634 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 225

2.1.1635 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt`

Test file number 188

Integral number in file 226

2.1.1636 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{barcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt`

Test file number 188

Integral number in file 227

2.1.1637 Fricas [F(-2)]

Exception generated.

$$\int x^m \operatorname{arcsinh}(ax^n) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*arcsinh(a*x^n),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 307

2.1.1638 Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax^n) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arcsinh(a*x^n),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 308

2.1.1639 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax^n) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arcsinh(a*x^n),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 309

2.1.1640 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ax^n) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x^n),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 310

2.1.1641 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x^n)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 311

2.1.1642 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax^n)}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x^n)/x^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 312

2.1.1643 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax^n)}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x^n)/x^3,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 313

2.1.1644 Fricas [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(I+d*x^2))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 328

2.1.1645 Fricas [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(I+d*x^2))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 329

2.1.1646 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + ib \arcsin(1 - idx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(I+d*x^2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 330

2.1.1647 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ib \arcsin(1 - idx^2)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(I+d*x^2))^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 331

2.1.1648 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(I+d*x^2))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 332

2.1.1649 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsinh(I+d*x^2))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 333

2.1.1650 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsinh(I+d*x^2))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 334

2.1.1651 Fricas [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + id x^2))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(-I+d*x^2))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 335

2.1.1652 Fricas [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + id x^2))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(-I+d*x^2))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 336

2.1.1653 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a - ib \arcsin(1 + id x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(-I+d*x^2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 337

2.1.1654 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - ib \arcsin(1 + id x^2)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsinh(-I+d*x^2))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 338

2.1.1655 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(-I+d*x^2))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 339

2.1.1656 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(-I+d*x^2))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 340

2.1.1657 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(-I+d*x^2))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 341

2.1.1658 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(c*exp(b*x+a)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 348

2.1.1659 Fricas [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 72

2.1.1660 Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 73

2.1.1661 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 74

2.1.1662 Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 75

2.1.1663 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 76

2.1.1664 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^(1/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 77

2.1.1665 Fricas [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 78

2.1.1666 Fricas [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 79

2.1.1667 Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*arccosh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 80

2.1.1668 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arccosh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 81

2.1.1669 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 82

2.1.1670 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^(3/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 83

2.1.1671 Fricas [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 84

2.1.1672 Fricas [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 85

2.1.1673 Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 86

2.1.1674 Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 87

2.1.1675 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 88

2.1.1676 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^(5/2)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 89

2.1.1677 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4/arccosh(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 90

2.1.1678 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)^(1/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 91

2.1.1679 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/arccosh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 92

2.1.1680 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/arccosh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 93

2.1.1681 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 94

2.1.1682 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 95

2.1.1683 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 96

2.1.1684 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 97

2.1.1685 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 98

2.1.1686 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 99

2.1.1687 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 100

2.1.1688 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 101

2.1.1689 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 102

2.1.1690 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 103

2.1.1691 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 104

2.1.1692 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 105

2.1.1693 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 106

2.1.1694 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 107

2.1.1695 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arccosh(a*x)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 108

2.1.1696 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/arccosh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 109

2.1.1697 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arccosh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 110

2.1.1698 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/arccosh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 111

2.1.1699 Fracas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/arccosh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 112

2.1.1700 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/arccosh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 113

2.1.1701 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/arccosh(a*x)^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 114

2.1.1702 Fricas [F(-2)]

Exception generated.

$$\int x^m \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 122

2.1.1703 Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^-m-a+b_arccosh-c_x^-n.txt

Test file number 189

Integral number in file 123

2.1.1704 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^-m-a+b_arccosh-c_x^-n.txt

Test file number 189

Integral number in file 124

2.1.1705 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt`

Test file number 189

Integral number in file 125

2.1.1706 Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt`

Test file number 189

Integral number in file 142

2.1.1707 Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a + \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 143

2.1.1708 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 144

2.1.1709 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 145

2.1.1710 Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 146

2.1.1711 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-ⁿ.txt

Test file number 189

Integral number in file 147

2.1.1712 Fricas [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-ⁿ.txt

Test file number 189

Integral number in file 148

2.1.1713 Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 149

2.1.1714 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 150

2.1.1715 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 151

2.1.1716 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 152

2.1.1717 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-ⁿ.txt

Test file number 189

Integral number in file 153

2.1.1718 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x-^m-a+b_arccosh-c_x-ⁿ.txt

Test file number 189

Integral number in file 154

2.1.1719 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 155

2.1.1720 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 156

2.1.1721 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arccosh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 157

2.1.1722 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arccosh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 158

2.1.1723 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 159

2.1.1724 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arccosh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a+b*arccosh(c*x))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 160

2.1.1725 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arccosh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(a+b*arccosh(c*x))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 161

2.1.1726 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(c*x))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 162

2.1.1727 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 369

2.1.1728 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 370

2.1.1729 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 371

2.1.1730 Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 372

2.1.1731 Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)/x/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-^p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 373

2.1.1732 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)^2}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-^p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 374

2.1.1733 Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 375

2.1.1734 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 376

2.1.1735 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-^p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 377

2.1.1736 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^2/x/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas"
)
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-^p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 378

2.1.1737 Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt
```

Test file number 190

Integral number in file 379

2.1.1738 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt
```

Test file number 190

Integral number in file 380

2.1.1739 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccosh(a*x)^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 381

2.1.1740 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccosh(a*x)^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 382

2.1.1741 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccosh(a*x)^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 383

2.1.1742 Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 384

2.1.1743 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2 cx^2} \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 385

2.1.1744 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{3/2}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 386

2.1.1745 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{3/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccosh(a*x)^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 387

2.1.1746 Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 388

2.1.1747 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2 cx^2} \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 389

2.1.1748 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{5/2}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccosh(a*x)^(5/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 390

2.1.1749 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{5/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^(5/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 391

2.1.1750 Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2-x^2)^(3/2)*arccosh(x/a)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 392

2.1.1751 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2-x^2)^(1/2)*arccosh(x/a)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 393

2.1.1752 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccosh(x/a)^(1/2)/(a^2-x^2)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 394

2.1.1753 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(x/a)^(1/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 395

2.1.1754 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(x/a)^(1/2)/(a^2-x^2)^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 396

2.1.1755 Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \operatorname{arccosh}\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2-x^2)^(3/2)*arccosh(x/a)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 397

2.1.1756 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \operatorname{arccosh}\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(x/a)^(3/2)*(a^2-x^2)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 398

2.1.1757 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}\left(\frac{x}{a}\right)^{3/2}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(x/a)^(3/2)/(a^2-x^2)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 399

2.1.1758 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(x/a)^(3/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 400

2.1.1759 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\operatorname{arccosh}(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(-x^2+1)^(1/2)/arccosh(x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 401

2.1.1760 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 402

2.1.1761 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt
```

Test file number 190

Integral number in file 403

2.1.1762 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt
```

Test file number 190

Integral number in file 404

2.1.1763 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2cx^2} \sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(1/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 405

2.1.1764 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 406

2.1.1765 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 407

2.1.1766 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 408

2.1.1767 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{3/2}}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 409

2.1.1768 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 410

2.1.1769 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 412

2.1.1770 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 413

2.1.1771 Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{3/2}}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 414

2.1.1772 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)/arccosh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 415

2.1.1773 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 417

2.1.1774 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 418

2.1.1775 Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 \sqrt{a + \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x^2+d)^2*(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 552

2.1.1776 Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) \sqrt{a + \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x^2+d)*(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 553

2.1.1777 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 554

2.1.1778 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arccosh}(cx)}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^(1/2)/(e*x^2+d),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 555

2.1.1779 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{arccosh}(cx)}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^(1/2)/(e*x^2+d)^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 556

2.1.1780 Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{arccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x^2+d)*(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 557

2.1.1781 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt
```

Test file number 190

Integral number in file 558

2.1.1782 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^(3/2)/(e*x^2+d),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

```
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt
```

Test file number 190

Integral number in file 559

2.1.1783 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arccosh}(cx))^{3/2}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^(3/2)/(e*x^2+d)^2,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 560

2.1.1784 Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)^2/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 561

2.1.1785 Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x^2+d)/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-^p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 562

2.1.1786 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: `integrate: implementation incomplete (constant residues)`

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-^p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 563

2.1.1787 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + \operatorname{barccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x^2+d)/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 564

2.1.1788 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 \sqrt{a + \operatorname{barccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x^2+d)^2/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 565

2.1.1789 Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 566

2.1.1790 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 567

2.1.1791 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(e*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 568

2.1.1792 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(e*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 569

2.1.1793 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 91

2.1.1794 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 92

2.1.1795 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 \sqrt{a + \operatorname{barccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4*(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 154

2.1.1796 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 \sqrt{a + \operatorname{barccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3*(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 155

2.1.1797 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 \sqrt{a + \operatorname{barccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2*(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 156

2.1.1798 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex) \sqrt{a + \operatorname{barccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)*(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 157

2.1.1799 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 158

2.1.1800 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arccosh}(c + dx)}}{ce + dex} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x+c))^(1/2)/(d*e*x+c*e),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 159

2.1.1801 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barccosh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3*(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 160

2.1.1802 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barccosh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 161

2.1.1803 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barccosh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 162

2.1.1804 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 163

2.1.1805 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arccosh}(c + dx))^{3/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x+c))^(3/2)/(d*e*x+c*e),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 164

2.1.1806 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + b \operatorname{arccosh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3*(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 165

2.1.1807 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barccosh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 166

2.1.1808 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barccosh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 167

2.1.1809 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 168

2.1.1810 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^{5/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x+c))^(5/2)/(d*e*x+c*e),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 169

2.1.1811 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barccosh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2*(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 170

2.1.1812 Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barccosh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)*(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 171

2.1.1813 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 172

2.1.1814 Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^{7/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(d*x+c))^(7/2)/(d*e*x+c*e),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 173

2.1.1815 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{\sqrt{a + b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^4/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 174

2.1.1816 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{\sqrt{a + b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^3/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 175

2.1.1817 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{\sqrt{a + \operatorname{barccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^2/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 176

2.1.1818 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{\sqrt{a + \operatorname{barccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 177

2.1.1819 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \operatorname{barccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 178

2.1.1820 Fracas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)\sqrt{a + \operatorname{barccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 179

2.1.1821 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + b \operatorname{arccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 180

2.1.1822 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 181

2.1.1823 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 182

2.1.1824 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 183

2.1.1825 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 184

2.1.1826 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{barccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 185

2.1.1827 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + b \operatorname{arccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 186

2.1.1828 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 187

2.1.1829 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 188

2.1.1830 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 189

2.1.1831 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{arccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 190

2.1.1832 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{arccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 191

2.1.1833 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + b \operatorname{arccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^4/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 192

2.1.1834 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^3/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 193

2.1.1835 Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)^2/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 194

2.1.1836 Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*e*x+c*e)/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 195

2.1.1837 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{arccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 196

2.1.1838 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{arccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(d*e*x+c*e)/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 197

2.1.1839 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x^n)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 239

2.1.1840 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{arccosh}(1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2+1))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 254

2.1.1841 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2+1))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 255

2.1.1842 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barccosh}(1 + dx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2+1))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 256

2.1.1843 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \operatorname{barccosh}(1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x^2+1))^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 257

2.1.1844 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barccosh}(1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x^2+1))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 258

2.1.1845 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barccosh}(1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x^2+1))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 259

2.1.1846 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barccosh}(1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x^2+1))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 260

2.1.1847 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(-1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2-1))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 261

2.1.1848 Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(-1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2-1))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 262

2.1.1849 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arccosh}(-1 + dx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(d*x^2-1))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 263

2.1.1850 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(-1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arccosh(d*x^2-1))^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 264

2.1.1851 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(-1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x^2-1))^(3/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 265

2.1.1852 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(-1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x^2-1))^(5/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 266

2.1.1853 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(-1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x^2-1))^(7/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 267

2.1.1854 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arccosh}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(c*exp(b*x+a)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 274

2.1.1855 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arctanh}(ax)}}{(1-a^2x^2)^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)^(1/2)/(-a^2*x^2+1)^2,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt`

Test file number 194

Integral number in file 280

2.1.1856 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arctanh}(ax)}}{(1-a^2x^2)^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)^(1/2)/(-a^2*x^2+1)^3,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name `7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt`

Test file number 194

Integral number in file 320

2.1.1857 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arctanh}(ax)}}{(1-a^2x^2)^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)^(1/2)/(-a^2*x^2+1)^4,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 348

2.1.1858 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^{-1}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsech(a*x^n)/x,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 29

2.1.1859 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{sech}^{-1}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsech(c*exp(b*x+a)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 31

2.1.1860 Fricas [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate((1/a/(x^p)+(1/a/(x^p)-1)^(1/2)*(1/a/(x^p)+1)^(1/2))*x^m,x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 60

2.1.1861 Fricas [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} x \, dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/(x^p)+(1/a/(x^p)-1)^(1/2)*(1/a/(x^p)+1)^(1/2))*x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 61

2.1.1862 Fricas [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} \, dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/a/(x^p)+(1/a/(x^p)-1)^(1/2)*(1/a/(x^p)+1)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 62

2.1.1863 Fricas [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{sech}^{-1}(ax^p)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((1/a/(x^p)+(1/a/(x^p)-1)^(1/2)*(1/a/(x^p)+1)^(1/2))/x^2,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 64

2.1.1864 Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^{-1}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(arccsch(a*x^n)/x,x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_Inverse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 23

2.1.1865 Fricas [F(-2)]

Exception generated.

$$\int \operatorname{csch}^{-1}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccsch(c*exp(b*x+a)),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_Inverse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 25

2.1.1866 Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x^2}{(-1+x^2)(2+x^2)\sqrt{-3+x^4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((x^2+1)/(x^2-1)/(x^2+2)/(x^4-3)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 278

2.1.1867 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x^2+x^6}(-1+2x^6)}{(1+x^6)(2-x^2+2x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^6+x^2+1)^(1/2)*(2*x^6-1)/(x^6+1)/(2*x^6-x^2+2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: catdef: division by zero
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 600

2.1.1868 Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^3)\sqrt[3]{x-x^4}}{1+x^2-2x^3-x^4-x^5+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+2)*(-x^4+x)^(1/3)/(x^6-x^5-x^4-2*x^3+x^2+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 695

2.1.1869 Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^3)\sqrt[3]{x-x^4}}{1+x^2-2x^3-x^4-x^5+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+2)*(-x^4+x)^(1/3)/(x^6-x^5-x^4-2*x^3+x^2+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 696

2.1.1870 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+x^3)\sqrt[3]{x+x^3+x^4}}{1+x^2+2x^3+x^4+x^5+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-2)*(x^4+x^3+x)^(1/3)/(x^6+x^5+x^4+2*x^3+x^2+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 715

2.1.1871 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3) \sqrt[3]{x + x^3 + x^4}}{1 + x^2 + 2x^3 + x^4 + x^5 + x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-2)*(x^4+x^3+x)^(1/3)/(x^6+x^5+x^4+2*x^3+x^2+1),x, algorithm=
"fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 716

2.1.1872 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(3 + 4x) \sqrt[3]{-1 - 2x + x^3}}{-2 - 8x - 8x^2 + x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(3+4*x)*(x^3-2*x-1)^(1/3)/(x^6-8*x^2-8*x-2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 765

2.1.1873 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(3+4x)\sqrt[3]{-1-2x+x^3}}{-2-8x-8x^2+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(3+4*x)*(x^3-2*x-1)^(1/3)/(x^6-8*x^2-8*x-2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 766

2.1.1874 Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+2x)(1+x+x^3)^{2/3}}{1+2x+x^2+x^3+x^4+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((3+2*x)*(x^3+x+1)^(2/3)/(x^6+x^4+x^3+x^2+2*x+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 767

2.1.1875 Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+2x)(1+x+x^3)^{2/3}}{1+2x+x^2+x^3+x^4+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((3+2*x)*(x^3+x+1)^(2/3)/(x^6+x^4+x^3+x^2+2*x+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 768

2.1.1876 Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^3)\sqrt[3]{x+x^3-x^4}}{1+x^2-2x^3+x^4-x^5+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+2)*(-x^4+x^3+x)^(1/3)/(x^6-x^5+x^4-2*x^3+x^2+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 769

2.1.1877 Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^3)\sqrt[3]{x+x^3-x^4}}{1+x^2-2x^3+x^4-x^5+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+2)*(-x^4+x^3+x)^(1/3)/(x^6-x^5+x^4-2*x^3+x^2+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 770

2.1.1878 Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+x^2)(1+x^2+x^3)^{2/3}}{-1-2x^2+x^3-x^4+x^5+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2+3)*(x^3+x^2+1)^(2/3)/(x^6+x^5-x^4+x^3-2*x^2-1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 771

2.1.1879 Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+x^2)(1+x^2+x^3)^{2/3}}{-1-2x^2+x^3-x^4+x^5+x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2+3)*(x^3+x^2+1)^(2/3)/(x^6+x^5-x^4+x^3-2*x^2-1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 772

2.1.1880 Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt[3]{2-x^3+x^8}(-6+5x^8)}{4+x^6+4x^8+x^{16}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(x^8-x^3+2)^(1/3)*(5*x^8-6)/(x^16+4*x^8+x^6+4),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 774

2.1.1881 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-3 + x^2)(1 - x^2 + x^3)^{2/3}}{1 - 2x^2 - x^3 + x^4 + x^5 + x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2-3)*(x^3-x^2+1)^(2/3)/(x^6+x^5+x^4-x^3-2*x^2+1),x, algorithm=
"fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 801

2.1.1882 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-3 + x^2)(1 - x^2 + x^3)^{2/3}}{1 - 2x^2 - x^3 + x^4 + x^5 + x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2-3)*(x^3-x^2+1)^(2/3)/(x^6+x^5+x^4-x^3-2*x^2+1),x, algorithm=
"fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 802

2.1.1883 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{x+x^3}(b+ax^6)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(x^3+x)^(1/3)/(a*x^6+b),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 804

2.1.1884 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{x+x^3}(b+ax^6)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(x^3+x)^(1/3)/(a*x^6+b),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 805

2.1.1885 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+5x^7)\sqrt[3]{2x+x^3+2x^8}}{4+x^4+8x^7+4x^{14}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((5*x^7-2)*(2*x^8+x^3+2*x)^(1/3)/(4*x^14+8*x^7+x^4+4),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 810

2.1.1886 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + 5x^7) \sqrt[3]{2x + x^3 + 2x^8}}{4 + x^4 + 8x^7 + 4x^{14}} dx = \text{Exception raised: TypeError}$$

[In] integrate((5*x^7-2)*(2*x^8+x^3+2*x)^(1/3)/(4*x^14+8*x^7+x^4+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 811

2.1.1887 Fricas [F(-2)]

Exception generated.

$$\int \frac{-b + ax^6}{(b + ax^6) \sqrt[3]{-b + a^3x^3 + ax^6}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^6-b)/(a*x^6+b)/(a*x^6+a^3*x^3-b)^(1/3),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 860

2.1.1888 Fricas [F(-2)]

Exception generated.

$$\int \frac{-b + ax^6}{(b + ax^6) \sqrt[3]{-b + a^3x^3 + ax^6}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x^6-b)/(a*x^6+b)/(a*x^6+a^3*x^3-b)^(1/3),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 861

2.1.1889 Fricas [F(-2)]

Exception generated.

$$\int \frac{(2 + x^2) \sqrt[4]{-1 - x^2 + x^4} (1 + x^2 + x^4)}{x^6 (1 + x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2+2)*(x^4-x^2-1)^(1/4)*(x^4+x^2+1)/x^6/(x^2+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 899

2.1.1890 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x+x^3}}{b+ax^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-x)^(1/3)/(a*x^6+b),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 937

2.1.1891 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x+x^3}}{b+ax^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-x)^(1/3)/(a*x^6+b),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 938

2.1.1892 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+x^3)(1+x^3)^{2/3}}{x^3(2+x^3+x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(x^6+x^3+2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 962

2.1.1893 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(2 + x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(x^6+x^3+2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 963

2.1.1894 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1 + x^3)^{2/3}(2 + x^3 + 2x^6)}{x^6(1 + x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+1)^(2/3)*(2*x^6+x^3+2)/x^6/(x^6+x^3+1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1005

2.1.1895 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(2+x^3+2x^6)}{x^6(1+x^3+x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+1)^(2/3)*(2*x^6+x^3+2)/x^6/(x^6+x^3+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1006

2.1.1896 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{-bx+ax^3}(d+cx^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x^3-b*x)^(1/3)/(c*x^6+d),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1020

2.1.1897 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{-bx + ax^3}(d + cx^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x^3-b*x)^(1/3)/(c*x^6+d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1021

2.1.1898 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (1 - 2x^3 + x^6)}{x^6 (1 - x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^6-2*x^3+1)/x^6/(x^6-x^3+1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1034

2.1.1899 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (1 - 2x^3 + x^6)}{x^6 (1 - x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^6-2*x^3+1)/x^6/(x^6-x^3+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1035

2.1.1900 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (2 + x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(2*x^6+x^3+2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1052

2.1.1901 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(2+x^3)}{x^6(2+x^3+2x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(2*x^6+x^3+2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1053

2.1.1902 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1-x^2)^2}{(1+x^2)(1+6x^2+x^4)^{3/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-x^2+1)^2/(x^2+1)/(x^4+6*x^2+1)^(3/4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1079

2.1.1903 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)\sqrt[4]{-1+2x^2+2x^4}}{x^2(-1+2x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2-1)*(2*x^4+2*x^2-1)^(1/4)/x^2/(2*x^2-1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1114

2.1.1904 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(2+x^3)}{x^6(-4-2x^3+x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(x^6-2*x^3-4),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1168

2.1.1905 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (-4 - 2x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(x^6-2*x^3-4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1169

2.1.1906 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (4 - 2x^3 + x^6)}{x^6 (-8 + 4x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^6-2*x^3+4)/x^6/(x^6+4*x^3-8),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1170

2.1.1907 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (4 - 2x^3 + x^6)}{x^6 (-8 + 4x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^6-2*x^3+4)/x^6/(x^6+4*x^3-8),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1171

2.1.1908 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 - 2x^3 + x^6)}{x^6 (-4 + 4x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^6-2*x^3+2)/x^6/(x^6+4*x^3-4),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1172

2.1.1909 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(2-2x^3+x^6)}{x^6(-4+4x^3+x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^6-2*x^3+2)/x^6/(x^6+4*x^3-4),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1173

2.1.1910 Fricas [F(-2)]

Exception generated.

$$\int \frac{x(-1+kx)(-1+(-1+2k)x)}{\sqrt[3]{(1-x)x(1-kx)}(-1+(4-c)x+(-6+b+2c+ck)x^2+(4-c-2bk-2ck)x^3+(-1+ck+bk^2))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(k*x-1)*(-1+(-1+2*k)*x)/(((1-x)*x*(-k*x+1))^(1/3)/(-1+(4-c)*x+(c*k+b+2*c-6)*x^2+(-2*b*k-2*c*k-c+4)*x^3+(b*k^2+c*k-1)*x^4),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1188

2.1.1911 Fricas [F(-2)]

Exception generated.

$$\int \frac{3 - x^2}{(1 - x^2) \sqrt[4]{1 - 6x^2 + x^4}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-x^2+3)/(-x^2+1)/(x^4-6*x^2+1)^(1/4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1253

2.1.1912 Fricas [F(-2)]

Exception generated.

$$\int \frac{-1 + x}{(1 + x) \sqrt[3]{2 + x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-1+x)/(1+x)/(x^3+2)^(1/3),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1264

2.1.1913 Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+2x)\sqrt[3]{1+x+x^3}}{x^2(1+x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((3+2*x)*(x^3+x+1)^(1/3)/x^2/(1+x),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1315

2.1.1914 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^2)^2}{(1-x^2)(1-6x^2+x^4)^{3/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((x^2+1)^2/(-x^2+1)/(x^4-6*x^2+1)^(3/4),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1317

2.1.1915 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)(1 + x^3)^{2/3}}{x^3(-1 - x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)*(x^3+1)^(2/3)/x^3/(x^6-x^3-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1397

2.1.1916 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)(1 + x^3)^{2/3}}{x^3(-1 - x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)*(x^3+1)^(2/3)/x^3/(x^6-x^3-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1398

2.1.1917 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(-2 + x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(2*x^6+x^3-2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1464

2.1.1918 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(-2 + x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(2*x^6+x^3-2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1465

2.1.1919 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3}(2 + x^3)}{x^3(-4 + x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^3/(x^6+x^3-4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1493

2.1.1920 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(2+x^3)}{x^3(-4+x^3+x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^3/(x^6+x^3-4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1494

2.1.1921 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(1+x^3+2x^6)}{x^6(-1+2x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+1)^(2/3)*(2*x^6+x^3+1)/x^6/(2*x^6-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1539

2.1.1922 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(1+x^3+2x^6)}{x^6(-1+2x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+1)^(2/3)*(2*x^6+x^3+1)/x^6/(2*x^6-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1540

2.1.1923 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(b + a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(a^6*x^6+b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).30638080 bytes available, 45588576 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1542

2.1.1924 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(b + a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(a^6*x^6+b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).30638080 bytes available, 45588576 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1543

2.1.1925 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^2) \sqrt[3]{x + x^3}}{x^2 (4 - 2x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2-2)*(x^3+x)^(1/3)/x^2/(x^4-2*x^2+4),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1553

2.1.1926 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^2) \sqrt[3]{x + x^3}}{x^2 (4 - 2x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2-2)*(x^3+x)^(1/3)/x^2/(x^4-2*x^2+4),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1554

2.1.1927 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3} (-b + a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(a^6*x^6-b),x, algorithm="fricas")
```

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).44695552 bytes available, 46036080 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1562

2.1.1928 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(-b + a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(a^6*x^6-b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).44695552 bytes available, 46036080 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1563

2.1.1929 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(-b + 2a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(2*a^6*x^6-b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).5668864 bytes available, 46119648 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1564

2.1.1930 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(-b + 2a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(2*a^6*x^6-b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).5668864 bytes available, 46119648 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1565

2.1.1931 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(b + 2a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(2*a^6*x^6+b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).3014656 bytes available, 45670544 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1566

2.1.1932 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(b + 2a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(2*a^6*x^6+b),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).3014656 bytes available, 45670544 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1567

2.1.1933 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(1-2x^3+x^6)}{x^6(-2+x^6)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((x^3+1)^(2/3)*(x^6-2*x^3+1)/x^6/(x^6-2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1595

2.1.1934 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(1-2x^3+x^6)}{x^6(-2+x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+1)^(2/3)*(x^6-2*x^3+1)/x^6/(x^6-2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1596

2.1.1935 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(-1+x^6)}{x^6(-2+x^3+2x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^6-1)/x^6/(2*x^6+x^3-2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1598

2.1.1936 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(-1+x^6)}{x^6(-2+x^3+2x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^6-1)/x^6/(2*x^6+x^3-2),x, algorithm="fricas")
```

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1599

2.1.1937 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (4 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(x^6+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1613

2.1.1938 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (4 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(x^6+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1614

2.1.1939 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(2b + a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(a^6*x^6+2*b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).2850816 bytes available, 48177616 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1619

2.1.1940 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(2b + a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(a^6*x^6+2*b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).2850816 bytes available, 48177616 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1620

2.1.1941 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(-2b + a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(a^6*x^6-2*b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).2162688 bytes available, 49247840 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1646

2.1.1942 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b^2x^2 + a^3x^3}(-2b + a^6x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^3*x^3+b^2*x^2)^(1/3)/(a^6*x^6-2*b),x, algorithm="fricas")

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).2162688 bytes available, 49247840 requested.PROCEED WITH CAUTION.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1647

2.1.1943 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(4+x^3)}{x^6(8-4x^3+x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+1)^(2/3)*(x^3+4)/x^6/(x^6-4*x^3+8),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1666

2.1.1944 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(4+x^3)}{x^6(8-4x^3+x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+1)^(2/3)*(x^3+4)/x^6/(x^6-4*x^3+8),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1667

2.1.1945 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(2+x^3)(4+3x^3)}{x^6(4+2x^3+x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+1)^(2/3)*(x^3+2)*(3*x^3+4)/x^6/(x^6+2*x^3+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1668

2.1.1946 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(2+x^3)(4+3x^3)}{x^6(4+2x^3+x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+1)^(2/3)*(x^3+2)*(3*x^3+4)/x^6/(x^6+2*x^3+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1669

2.1.1947 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(4+x^6)}{x^6(4+2x^3+x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^6+4)/x^6/(x^6+2*x^3+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1670

2.1.1948 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (4 + x^6)}{x^6 (4 + 2x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^6+4)/x^6/(x^6+2*x^3+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1671

2.1.1949 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (1 - x^3 + x^6)}{x^6 (-2 - x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-1)^(2/3)*(x^6-x^3+1)/x^6/(2*x^6-x^3-2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1672

2.1.1950 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (1 - x^3 + x^6)}{x^6 (-2 - x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^6-x^3+1)/x^6/(2*x^6-x^3-2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1673

2.1.1951 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1 + x^3)^{2/3} (4 + 6x^3 + 3x^6)}{x^6 (8 + 6x^3 + 3x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+1)^(2/3)*(3*x^6+6*x^3+4)/x^6/(3*x^6+6*x^3+8),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1674

2.1.1952 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(4+6x^3+3x^6)}{x^6(8+6x^3+3x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+1)^(2/3)*(3*x^6+6*x^3+4)/x^6/(3*x^6+6*x^3+8),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1675

2.1.1953 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^2)\sqrt[3]{-x+2x^3}}{x^2(1+x^4)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2+1)*(2*x^3-x)^(1/3)/x^2/(x^4+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1699

2.1.1954 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+2x^2)\sqrt[3]{x+2x^3}}{x^4(1+2x^4)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2+1)*(2*x^3+x)^(1/3)/x^4/(2*x^4+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1711

2.1.1955 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x - \sqrt{b+ax}\sqrt{c+\sqrt{b+ax}}} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(1/(x-(a*x+b)^(1/2)*(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas"
)
```

```
[Out] Exception raised: AttributeError
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1712

2.1.1956 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x - \sqrt{b+ax}\sqrt{c+\sqrt{b+ax}}} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(1/(x-(a*x+b)^(1/2)*(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas"
)
```

[Out] Exception raised: AttributeError

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1713

2.1.1957 Fricas [F(-2)]

Exception generated.

$$\int \frac{(4+x^2)\sqrt[3]{-2x+x^3}}{x^4(-4-4x^2+x^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2+4)*(x^3-2*x)^(1/3)/x^4/(x^4-4*x^2-4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1717

2.1.1958 Fricas [F(-2)]

Exception generated.

$$\int \frac{(4+x^2)\sqrt[3]{-2x+x^3}}{x^4(-4-4x^2+x^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2+4)*(x^3-2*x)^(1/3)/x^4/(x^4-4*x^2-4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1718

2.1.1959 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^5)\sqrt[3]{1+x^3+x^5}(-3+2x^5)}{x^2(2-2x^3+4x^5-x^6-2x^8+2x^{10})} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^5+1)*(x^5+x^3+1)^(1/3)*(2*x^5-3)/x^2/(2*x^10-2*x^8-x^6+4*x^5-2*x^3+2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1727

2.1.1960 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^5)\sqrt[3]{1+x^3+x^5}(-3+2x^5)}{x^2(2-2x^3+4x^5-x^6-2x^8+2x^{10})} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^5+1)*(x^5+x^3+1)^(1/3)*(2*x^5-3)/x^2/(2*x^10-2*x^8-x^6+4*x^5-2*x^3+2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1728

2.1.1961 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{x + 2x^3}(-1 + x^4)}{x^4(2 - x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate((2*x^3+x)^(1/3)*(x^4-1)/x^4/(x^4-x^2+2),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1764

2.1.1962 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(8 - 10x^2 + x^4)}{x^4(4 - 2x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-x)^(1/3)*(x^4-10*x^2+8)/x^4/(x^4-2*x^2+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1778

2.1.1963 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x+x^3}(8-10x^2+x^4)}{x^4(4-2x^2+x^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-x)^(1/3)*(x^4-10*x^2+8)/x^4/(x^4-2*x^2+4),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1779

2.1.1964 Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{(-1+x)(1+2x)\sqrt[3]{-1+3x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)/(-1+x)/(1+2*x)/(3*x^2-1)^(1/3),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1889

2.1.1965 Fricas [F(-2)]

Exception generated.

$$\int \frac{b - ax^5}{\sqrt{a + bx} (ab + x^5)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((-a*x^5+b)/(b*x+a)^(1/2)/(x^5+a*b),x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> no explicit roots found

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1959

2.1.1966 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-4 + x^2) \sqrt[4]{2 - x^2 - 2x^4}}{x^2 (-2 + x^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((x^2-4)*(-2*x^4-x^2+2)^(1/4)/x^2/(x^2-2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2014

2.1.1967 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{x + x^3} (-1 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(x^3+x)^(1/3)/(x^6-1),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2201

2.1.1968 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{x+x^3}(-1+x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(x³+x)^(1/3)/(x⁶-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2202

2.1.1969 Fricas [F(-2)]

Exception generated.

$$\int \frac{b+ax^6}{\sqrt[3]{x+x^3}(d+cx^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x⁶+b)/(x³+x)^(1/3)/(c*x⁶+d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2213

2.1.1970 Fricas [F(-2)]

Exception generated.

$$\int \frac{b + ax^6}{\sqrt[3]{x + x^3} (d + cx^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^6+b)/(x^3+x)^(1/3)/(c*x^6+d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2214

2.1.1971 Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{b+ax}}{x + \sqrt{c + \sqrt{b+ax}}} dx = \text{Exception raised: AttributeError}$$

[In] integrate(x*(a*x+b)^(1/2)/(x+(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")

[Out] Exception raised: AttributeError

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2222

2.1.1972 Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{b+ax}}{x + \sqrt{c + \sqrt{b+ax}}} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x*(a*x+b)^(1/2)/(x+(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")
```

```
[Out] Exception raised: AttributeError
```

```
input file name 9_Blake_problems/BlakeProblems.txt
```

```
Test file number 209
```

```
Integral number in file 2223
```

2.1.1973 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{-x+x^3}(1+x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(x^3-x)^(1/3)/(x^6+1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

```
input file name 9_Blake_problems/BlakeProblems.txt
```

```
Test file number 209
```

```
Integral number in file 2276
```

2.1.1974 Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{-x+x^3}(1+x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(x^3-x)^(1/3)/(x^6+1),x, algorithm="fricas")
```

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2277

2.1.1975 Fricas [F(-2)]

Exception generated.

$$\int \frac{-b + ax^6}{\sqrt[3]{-x + x^3(-d + cx^6)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^6-b)/(x^3-x)^(1/3)/(c*x^6-d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2288

2.1.1976 Fricas [F(-2)]

Exception generated.

$$\int \frac{-b + ax^6}{\sqrt[3]{-x + x^3(-d + cx^6)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^6-b)/(x^3-x)^(1/3)/(c*x^6-d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2289

2.1.1977 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{x + \sqrt{c + \sqrt{b + ax}}} dx = \text{Exception raised: AttributeError}$$

[In] `integrate(x/(x+(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")`

[Out] Exception raised: AttributeError

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2303

2.1.1978 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{x + \sqrt{c + \sqrt{b + ax}}} dx = \text{Exception raised: AttributeError}$$

[In] `integrate(x/(x+(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")`

[Out] Exception raised: AttributeError

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2304

2.1.1979 Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{(3+x)(1+2x)\sqrt[3]{1+x^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((1+x)/(3+x)/(1+2*x)/(x^2+1)^(1/3),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2337

2.1.1980 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}}{x + \sqrt{x + \sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(1/2)/(x+(x+(1+x)^(1/2))^(1/2)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2353

2.1.1981 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}}{x + \sqrt{x + \sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(1/2)/(x+(x+(1+x)^(1/2))^(1/2)),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2354

2.1.1982 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{x+x^3}(b+ax^6)}{d+cx^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+x)^(1/3)*(a*x^6+b)/(c*x^6+d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2386

2.1.1983 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{x+x^3}(b+ax^6)}{d+cx^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3+x)^(1/3)*(a*x^6+b)/(c*x^6+d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2387

2.1.1984 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + 2x^6) \sqrt[3]{x + x^7}}{(1 - 2x^2 + x^6)(1 - x^2 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((2*x^6-1)*(x^7+x)^(1/3)/(x^6-2*x^2+1)/(x^6-x^2+1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2388

2.1.1985 Fricas [F(-2)]

Exception generated.

$$\int \frac{2 + 3x}{\sqrt[3]{4 + 3x^2} (-12 + 52x + 9x^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((2+3*x)/(3*x^2+4)^(1/3)/(9*x^2+52*x-12),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2432

2.1.1986 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(-b + ax^6)}{-d + cx^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-x)^(1/3)*(a*x^6-b)/(c*x^6-d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2474

2.1.1987 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(-b + ax^6)}{-d + cx^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-x)^(1/3)*(a*x^6-b)/(c*x^6-d),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2475

2.1.1988 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+x^3)\sqrt[3]{x+x^3+x^4}}{(1+x^3)(1-x^2+x^3)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-2)*(x^4+x^3+x)^(1/3)/(x^3+1)/(x^3-x^2+1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2506

2.1.1989 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+x)\sqrt[3]{x-x^2+x^3}}{(-1+x)(-1+x+x^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((-2+x)*(x^3-x^2+x)^(1/3)/(-1+x)/(x^2+x-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2593

2.1.1990 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3) \sqrt[3]{x + 2x^3 + x^4}}{(1 + x^3)(1 + x^2 + x^3)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-2)*(x^4+2*x^3+x)^(1/3)/(x^3+1)/(x^3+x^2+1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2596

2.1.1991 Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + 2x^6}{\sqrt[3]{x + x^3}(-1 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((2*x^6+1)/(x^3+x)^(1/3)/(x^6-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2658

2.1.1992 Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + 2x^6}{\sqrt[3]{x + x^3}(-1 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((2*x^6+1)/(x^3+x)^(1/3)/(x^6-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2659

2.1.1993 Fricas [F(-2)]

Exception generated.

$$\int \frac{(2 + 5x^7) \sqrt[3]{-x - x^3 + x^8}}{(-1 + x^7)(-1 + x^2 + x^7)} dx = \text{Exception raised: TypeError}$$

[In] integrate((5*x^7+2)*(x^8-x^3-x)^(1/3)/(x^7-1)/(x^7+x^2-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2697

2.1.1994 Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-b+ax}}{1+\sqrt{ax+\sqrt{-b+ax}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x-b)^(1/2)/(1+(a*x+(a*x-b)^(1/2))^(1/2)),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (irrational residues)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2715

2.1.1995 Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{(1+2x)\sqrt[3]{27+27x+36x^2+28x^3+9x^4+x^5}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+x)/(1+2*x)/(x^5+9*x^4+28*x^3+36*x^2+27*x+27)^(1/3),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2875

2.1.1996 Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(-1+x^6)}{x^6(-1-2x^3+2x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3+1)^(2/3)*(x^6-1)/x^6/(2*x^6-2*x^3-1),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2908

2.1.1997 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{x - \sqrt{b+ax} \sqrt{c + \sqrt{b+ax}}} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x/(x-(a*x+b)^(1/2)*(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas"
)
```

```
[Out] Exception raised: AttributeError
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2976

2.1.1998 Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{x - \sqrt{b+ax} \sqrt{c + \sqrt{b+ax}}} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x/(x-(a*x+b)^(1/2)*(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas"
)
```

[Out] Exception raised: AttributeError

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2977

2.1.1999 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2x + (1+k)x^2)(1 - (1+k)x + (a+k)x^2)}{((1-x)x(1-kx))^{2/3}(1 - 2(1+k)x + (1+4k+k^2)x^2 - 2(k+k^2)x^3 + (-b+k^2)x^4)} dx = \text{Exception}$$

```
[In] integrate((-2*x+(1+k)*x^2)*(1-(1+k)*x+(a+k)*x^2)/((1-x)*x*(-k*x+1))^(2/3)/(
1-2*(1+k)*x+(k^2+4*k+1)*x^2-2*(k^2+k)*x^3+(k^2-b)*x^4),x, algorithm="fricas
")
```

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2978

2.1.2000 Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + (1+k)x)(1 - (1+k)x + (a+k)x^2)}{\sqrt[3]{(1-x)x(1-kx)}(1 - (2+2k)x + (1+4k+k^2)x^2 - 2(k+k^2)x^3 + (-b+k^2)x^4)} dx$$

= Exception raised: TypeError

```
[In] integrate((-2+(1+k)*x)*(1-(1+k)*x+(a+k)*x^2)/((1-x)*x*(-k*x+1))^(1/3)/(1-(2
+2*k)*x+(k^2+4*k+1)*x^2-2*(k^2+k)*x^3+(k^2-b)*x^4),x, algorithm="fricas")
```

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2979

2.1.2001 Fricas [F(-2)]

Exception generated.

$$\int \frac{1 - x^3 + x^6}{\sqrt[3]{x^2 + x^4}(-1 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^6-x^3+1)/(x^4+x^2)^(1/3)/(x^6-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3025

2.1.2002 Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + x^3 + x^6}{\sqrt[3]{x^2 + x^4}(-1 + x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^6+x^3+1)/(x^4+x^2)^(1/3)/(x^6-1),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3026

2.1.2003 Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{(-3+x^2)\sqrt[3]{1+x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)/(x^2-3)/(x^2+1)^(1/3),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (trace 0)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3056

2.1.2004 Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{\sqrt[3]{27+189x+522x^2+784x^3+825x^4+679x^5+338x^6+84x^7+8x^8}} dx$$

= Exception raised: TypeError

[In] integrate((1+x)/(8*x^8+84*x^7+338*x^6+679*x^5+825*x^4+784*x^3+522*x^2+189*x
+27)^(1/3),x, algorithm="fricas")

[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (residue poly has multiple non-linear facto
rs)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3070

2.1.2005 Fricas [F(-2)]

Exception generated.

$$\int \frac{1+2x}{\sqrt[3]{-1+x^2}(3+x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+2*x)/(x^2-1)^(1/3)/(x^2+3),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (trace 0)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3072

2.1.2006 Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(e^x \log\left(\log\left(e^{x+x^2} - e^x x\right)\right)\right)^{2/9} \left(-4 - 4x + e^{x^2}(4 + 8x) + (4e^{x^2} - 4x) \log\left(e^{x+x^2} - e^x x\right) \log\left(\log\left(e^{x+x^2} - e^x x\right)\right)\right)}{(9e^{x^2} - 9x) \log\left(e^{x+x^2} - e^x x\right) \log\left(\log\left(e^{x+x^2} - e^x x\right)\right)} dx$$

```
[In] integrate((((4*exp(x^2)-4*x)*log(exp(x)*exp(x^2)-exp(x)*x)*log(log(exp(x)*ex
p(x^2)-exp(x)*x))+8*x+4)*exp(x^2)-4*x-4)*(exp(x)*log(log(exp(x)*exp(x^2)-e
xp(x)*x)))^(2/9)/(9*exp(x^2)-9*x)/log(exp(x)*exp(x^2)-exp(x)*x)/log(log(exp
(x)*exp(x^2)-exp(x)*x))),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code:  integ
rate: implementation incomplete (constant residues)
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 833

2.1.2007 Fricas [F(-2)]

Exception generated.

$$\int \frac{-6 - 3e^x + e^{\frac{1}{3}(3x + \log(2 + e^x - \log(\frac{5}{2})))} (6 + 4e^x - 3 \log(\frac{5}{2})) + 3 \log(\frac{5}{2}) + (-6 - 3e^x + 3 \log(\frac{5}{2})) \log(x)}{6 + 3e^x - 3 \log(\frac{5}{2})} dx$$

= Exception raised: TypeError

```
[In] integrate(((4*exp(x)+3*log(2/5)+6)*exp(1/3*log(exp(x)+log(2/5)+2)+x)+(-3*exp(x)-3*log(2/5)-6)*log(x)-3*exp(x)-3*log(2/5)-6)/(3*exp(x)+3*log(2/5)+6),x,
algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 975

2.1.2008 Fricas [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{3}(-e^{-4} + \sqrt[4]{x} - 3x \log(3))} (-e^{-4} + \sqrt[4]{x} \sqrt[4]{x} - 12x \log(3))}{48x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/48*(-x^(1/4)*exp(x^(1/4)-4)-12*x*log(3))*exp(-1/3*exp(x^(1/4)-4)-x*log(3))/x,x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: algogextint: unimplemented
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2446

2.1.2009 Fricas [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}(-10+\log(15-12x\log(2+\log^2(4+x^2))))}(8x^2\log(4+x^2)+(16+4x^2+(8+2x^2)\log^2(4+x^2))\log(2+\log^2(4+x^2)))}{-40-10x^2+(-20-5x^2)\log^2(4+x^2)+(32x+8x^3+(16x+4x^3)\log^2(4+x^2))\log(2+\log^2(4+x^2))} dx$$

= Exception raised: TypeError

```
[In] integrate((((2*x^2+8)*log(x^2+4)^2+4*x^2+16)*log(log(x^2+4)^2+2)+8*x^2*log(x^2+4))*exp(1/2*log(-12*x*log(log(x^2+4)^2+2)+15)-5)/(((4*x^3+16*x)*log(x^2+4)^2+8*x^3+32*x)*log(log(x^2+4)^2+2)+(-5*x^2-20)*log(x^2+4)^2-10*x^2-40),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3878

2.1.2010 Fricas [F(-2)]

Exception generated.

$$\int e^{2e^{\frac{1}{3}\left(-3+\log\left(\frac{e^4x+x^2-3x\log(x)}{e^4+x}\right)\right)}+\frac{1}{3}\left(-3+\log\left(\frac{e^4x+x^2-3x\log(x)}{e^4+x}\right)\right)} \frac{(-2e^8+e^4(6-4x)+6x-2x^2+6e^4\log(x))}{-3e^8x-6e^4x^2-3x^3+(9e^4x+9x^2)\log(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((6*exp(4)*log(x)-2*exp(4)^2+(6-4*x)*exp(4)-2*x^2+6*x)*exp(1/3*log((-3*x*log(x)+x*exp(4)+x^2)/(x+exp(4)))-1)*exp(2*exp(1/3*log((-3*x*log(x)+x*exp(4)+x^2)/(x+exp(4)))-1))/((9*x*exp(4)+9*x^2)*log(x)-3*x*exp(4)^2-6*x^2*exp(4)-3*x^3),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: do_al_g_rde: unimplemented kernel
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5066

2.1.2011 Fricas [F(-2)]

Exception generated.

$$\int \frac{(20x^2 - 4x^4) \log(5 - x^2) + (-10x^3 + 2x^5) \log(5 - x^2) \log(\log(5 - x^2)) + \sqrt{2 - x} \log(\log(5 - x^2)) (20x^2 - 4x^4) \log(5 - x^2) + (-10x^3 + 2x^5) \log(5 - x^2)}{(20x^2 - 4x^4) \log(5 - x^2) + (-10x^3 + 2x^5) \log(5 - x^2)}$$

= Exception raised: TypeError

```
[In] integrate((((-x^3+5*x)*log(-x^2+5)*log(log(-x^2+5)))+(4*x^2-20)*log(-x^2+5)+
2*x^3)*(-x*log(log(-x^2+5))+2)^(1/2)+(2*x^5-10*x^3)*log(-x^2+5)*log(log(-x^
2+5)))+(-4*x^4+20*x^2)*log(-x^2+5))/((2*x^5-10*x^3)*log(-x^2+5)*log(log(-x^2
+5)))+(-4*x^4+20*x^2)*log(-x^2+5)),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5285

2.1.2012 Fricas [F(-2)]

Exception generated.

$$\int \frac{e^{\sqrt{\frac{200-25 \log(e^x x)}{x}}} \left(16 + \sqrt{\frac{200-25 \log(e^x x)}{x}} (9 + x - \log(e^x x)) - 2 \log(e^x x) \right)}{-16x^2 + 2x^2 \log(e^x x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((-log(exp(x)*x)+x+9)*((-25*log(exp(x)*x)+200)/x)^(1/2)-2*log(exp
(x)*x)+16)*exp(((25*log(exp(x)*x)+200)/x)^(1/2))/(2*x^2*log(exp(x)*x)-16*x
^2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: do_al
g_rde: unimplemented kernel
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5642

2.1.2013 Fricas [F(-2)]

Exception generated.

$$\int \frac{-3x^4 + 3e^{\frac{25+10e^3x+e^6x^2}{x^2}} x^3 \log(x) + e^{\frac{1}{3} \left(-5 + \log \left(-x + e^{\frac{25+10e^3x+e^6x^2}{x^2}} \log(x) \right) \right)} \left(e^{\frac{25+10e^3x+e^6x^2}{x^2}} x^2 - x^3 + e^{\frac{25+10e^3x+e^6x^2}{x^2}} \right)}{-3x^4 + 3e^{\frac{25+10e^3x+e^6x^2}{x^2}} x^3 \log(x)}$$

= Exception raised: TypeError

```
[In] integrate(((((-10*x*exp(3)-50)*exp((x^2*exp(3)^2+10*x*exp(3)+25)/x^2)*log(x)
+x^2*exp((x^2*exp(3)^2+10*x*exp(3)+25)/x^2)-x^3)*exp(1/3*log(exp((x^2*exp(3)
)^2+10*x*exp(3)+25)/x^2)*log(x)-x)-5/3)+3*x^3*exp((x^2*exp(3)^2+10*x*exp(3)
+25)/x^2)*log(x)-3*x^4)/(3*x^3*exp((x^2*exp(3)^2+10*x*exp(3)+25)/x^2)*log(x)
)-3*x^4),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integ
rate: implementation incomplete (constant residues)
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8482

2.1.2014 Fricas [F(-2)]

Exception generated.

$$\int (1-x)^{2014} x dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x*(1-x)^2014,x, algorithm="fricas")
```

```
[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more
space for allocation).2293760 bytes available, 2557536 requested.PROCEED WI
TH CAUTION.
```

input file name 11_MIT/MIT_bee_problems.txt

Test file number 211

Integral number in file 105

2.1.2015 Fricas [F(-2)]

Exception generated.

$$\int (1-x)^{2020} x dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(1-x)^2020,x, algorithm="fricas")`

[Out] Exception raised: RuntimeError >> System error: Heap exhausted (no more space for allocation).1998848 bytes available, 2179456 requested.PROCEED WITH CAUTION.

input file name 11_MIT/MIT_bee_problems.txt

Test file number 211

Integral number in file 227

2.1.2016 Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\frac{\log(\frac{1}{x})}{x}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((log(1/x)/x)^(1/2),x, algorithm="fricas")`

[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name 11_MIT/MIT_bee_problems.txt

Test file number 211

Integral number in file 259

2.1.2017 Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{1}{\sqrt{2}\sqrt{\log(x)}} + \sqrt{2}\sqrt{\log(x)} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(2^(1/2)*log(x)^(1/2)+1/2*2^(1/2)/log(x)^(1/2),x, algorithm="fricas")
```

```
[Out] Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name 11_MIT/MIT_bee_problems.txt

Test file number 211

Integral number in file 302

2.2 Maxima Exceptions

Percentage of integrals which generated an exception is 7.606 %

2.2.1 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{(b-x)(-a+x)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(((b-x)*(-a+x))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 0_Independent_test_suites/Apostol_Problems.txt

Test file number 1

Integral number in file 104

2.2.2 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{(b-x)(-a+x)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/((b-x)*(-a+x))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 0_Independent_test_suites/Apostol_Problems.txt

Test file number 1

Integral number in file 105

2.2.3 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{1 + a \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(1+a*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a^2-1.0>0)', see 'assume?' for more detail

input file name 0_Independent_test_suites/Apostol_Problems.txt

Test file number 1

Integral number in file 141

2.2.4 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{c + bx + ax^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*x^2+b*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more deta

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 8

2.2.5 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 122

2.2.6 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + \cos(x) + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+cos(x)+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2-a^2+1>0)', see 'assume?' for more details)

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 123

2.2.7 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(ax)}{(b + c \sin(ax))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sin(a*x)/(b+c*sin(a*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 147

2.2.8 Maxima [F(-2)]

Exception generated.

$$\int a^x b^{-x} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(a^x/(b^x),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(-log(b)/log(a)>0)', see 'assume?' f
or more
```

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 160

2.2.9 Maxima [F(-2)]

Exception generated.

$$\int a^x b^x dx = \text{Exception raised: ValueError}$$

[In] `integrate(a^x*b^x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(log(b)/log(a)>0)', see 'assume?' for more

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 161

2.2.10 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 176

2.2.11 Maxima [F(-2)]

Exception generated.

$$\int \frac{r}{\sqrt{-\alpha^2 + 2er^2 - 2kr^4}} dr = \text{Exception raised: ValueError}$$

[In] `integrate(r/(-2*k*r^4+2*e*r^2-alpha^2)^(1/2),r, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*alpha^2*k-e^2>0)', see 'assume?' for mor

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 211

2.2.12 Maxima [F(-2)]

Exception generated.

$$\int \frac{r}{\sqrt{-\alpha^2 - 2kr + 2er^2}} dr = \text{Exception raised: ValueError}$$

[In] `integrate(r/(2*e*r^2-alpha^2-2*k*r)^(1/2),r, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(k^2+2*alpha^2*e>0)', see 'assume?' for mor

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 212

2.2.13 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{r\sqrt{-\alpha^2 + 2hr^2 - 2kr^4}} dr = \text{Exception raised: ValueError}$$

[In] `integrate(1/r/(-2*k*r^4+2*h*r^2-alpha^2)^(1/2),r, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*alpha^2*k-h^2>0)', see 'assume?' for mor

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 213

2.2.14 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{r\sqrt{-\alpha^2 - \epsilon^2 + 2hr^2 - 2kr^4}} dr = \text{Exception raised: ValueError}$$

[In] `integrate(1/r/(-2*k*r^4+2*h*r^2-alpha^2-epsilon^2)^(1/2),r, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*epsilon^2*k+2*alpha^2*k>0)', see 'assume

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 214

2.2.15 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{p + q \cos(x) + r \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(p+q*cos(x)+r*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r^2+q^2-p^2>0)', see 'assume?' for more details)

input file name 0_Independent_test_suites/Jeffrey_Problems.txt

Test file number 7

Integral number in file 9

2.2.16 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 69

2.2.17 Maxima [F(-2)]

Exception generated.

$$\int \frac{B + Ax}{(c + 2bx + ax^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A*x+B)/(a*x^2+2*b*x+c)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see 'assume?' for
more de
```

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 149

2.2.18 Maxima [F(-2)]

Exception generated.

$$\int \frac{b1 + c1x}{a + 2bx + cx^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c1*x+b1)/(c*x^2+2*b*x+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see 'assume?' for
more de
```

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 194

2.2.19 Maxima [F(-2)]

Exception generated.

$$\int \frac{b1 + c1x}{(a + 2bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c1*x+b1)/(c*x^2+2*b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see 'assume?' for more de

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 195

2.2.20 Maxima [F(-2)]

Exception generated.

$$\int \frac{b1 + c1x}{(a + 2bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c1*x+b1)/(c*x^2+2*b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see 'assume?' for more de

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 196

2.2.21 Maxima [F(-2)]

Exception generated.

$$\int \frac{b1 + c1x}{(a + 2bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c1*x+b1)/(c*x^2+2*b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see 'assume?' for more de

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 197

2.2.22 Maxima [F(-2)]

Exception generated.

$$\int x \cos^2(x) \cot^2(x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*cos(x)^4/sin(x)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 487

2.2.23 Maxima [F(-2)]

Exception generated.

$$\int a^{mx} b^{nx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(a^(m*x)*b^(n*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((log(b)*n)/(log(a)*m)>0)', see 'assume?' f

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 494

2.2.24 Maxima [F(-2)]

Exception generated.

$$\int a^{-x} b^{-x} (a^x - b^x)^2 dx = \text{Exception raised: ValueError}$$

[In] `integrate((a^x-b^x)^2/(a^x)/(b^x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-log(b)/log(a)>0)', see 'assume?' f or more

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 495

2.2.25 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 583

2.2.26 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a^2 - b^2 \cosh^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a^2-b^2*cosh(x)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 587

2.2.27 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{mx}}{\cosh(x) + \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(m*x)/(cosh(x)+sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-m>0)', see 'assume?' for more details)Is

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 603

2.2.28 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(x))^{-n}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/((a+b*log(x))^n),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-n>0)', see 'assume?' for more details)Is

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 621

2.2.29 Maxima [F(-2)]

Exception generated.

$$\int \left(\frac{1}{\sqrt{2}(1+x)^2\sqrt{-i+x^2}} + \frac{1}{\sqrt{2}(1+x)^2\sqrt{i+x^2}} \right) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/2/(1+x)^2*2^(1/2)/(-I+x^2)^(1/2)+1/2/(1+x)^2*2^(1/2)/(I+x^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 1 which is not of the expected type LIST
```

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 11

2.2.30 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a+b\cos(x)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*cos(x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de
```

input file name 0_Independent_test_suites/Wester_Problems.txt

Test file number 12

Integral number in file 3

2.2.31 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2(a+bx)}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)*(c*x^2)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 760

2.2.32 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2(a+bx)}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)*(c*x^2)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 761

2.2.33 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2(a+bx)}}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)*(c*x^2)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 762

2.2.34 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2(a+bx)}}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)*(c*x^2)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 763

2.2.35 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2} (a + bx)}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(3/2)*(b*x+a)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 769

2.2.36 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2} (a + bx)}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(3/2)*(b*x+a)/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 770

2.2.37 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2} (a + bx)}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(3/2)*(b*x+a)/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 771

2.2.38 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(5/2)*(b*x+a)/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 778

2.2.39 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(5/2)*(b*x+a)/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 779

2.2.40 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a + bx)^2}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)^2*(c*x^2)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 808

2.2.41 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)^2*(c*x^2)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 809

2.2.42 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)^2*(c*x^2)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 810

2.2.43 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)^2*(c*x^2)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 811

2.2.44 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}(a+bx)^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(3/2)*(b*x+a)^2/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 817

2.2.45 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2} (a + bx)^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(3/2)*(b*x+a)^2/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 818

2.2.46 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2} (a + bx)^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(3/2)*(b*x+a)^2/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 819

2.2.47 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(5/2)*(b*x+a)^2/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 824

2.2.48 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(5/2)*(b*x+a)^2/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 825

2.2.49 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)^2}{x^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(5/2)*(b*x+a)^2/x^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 826

2.2.50 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)^2}{x^6} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(5/2)*(b*x+a)^2/x^6,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 827

2.2.51 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x(a+bx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*x^2)^(1/2)/x/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 856

2.2.52 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{9/4}(a+iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(7/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1198

2.2.53 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(7/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1204

2.2.54 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{15/4}(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(15/4)/(a+I*a*x)^(7/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1205

2.2.55 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4}(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(5/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1210

2.2.56 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(5/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1211

2.2.57 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(5/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1216

2.2.58 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{5/4}(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(9/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1220

2.2.59 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(9/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1222

2.2.60 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{17/4}(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(17/4)/(a+I*a*x)^(9/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1223

2.2.61 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4}(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(9/4),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1227

2.2.62 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx}}{a + bx} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1381

2.2.63 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*x+c)^(1/2)/(b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt
```

```
Test file number 13
```

```
Integral number in file 1382
```

2.2.64 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*x+c)^(1/2)/(b*x+a)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt
```

```
Test file number 13
```

```
Integral number in file 1383
```

2.2.65 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1384

2.2.66 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1385

2.2.67 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(1/2)/(b*x+a)^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt`

Test file number 13

Integral number in file 1386

2.2.68 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(3/2)/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt`

Test file number 13

Integral number in file 1393

2.2.69 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1394

2.2.70 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1395

2.2.71 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1396

2.2.72 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1397

2.2.73 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(3/2)/(b*x+a)^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1398

2.2.74 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{a + bx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1405

2.2.75 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1406

2.2.76 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1407

2.2.77 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1408

2.2.78 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1409

2.2.79 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1410

2.2.80 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx)\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x+a)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1419

2.2.81 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^2 \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^2/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 13

Integral number in file 1420

2.2.82 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^3 \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^3/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 13

Integral number in file 1421

2.2.83 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^4 \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^4/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 13

Integral number in file 1422

2.2.84 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^5 \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^5/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 13

Integral number in file 1423

2.2.85 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1430

2.2.86 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^2(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1431

2.2.87 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^3(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^3/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1432

2.2.88 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^4(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^4/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1433

2.2.89 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1440

2.2.90 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^2(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1441

2.2.91 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^3(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^3/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1442

2.2.92 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^4(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^4/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1443

2.2.93 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)\sqrt[3]{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)/(d*x+c)^(1/3),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1458

2.2.94 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)(c+dx)^{2/3}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)/(d*x+c)^(2/3),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1459

2.2.95 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{7/2} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(7/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1460

2.2.96 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1461

2.2.97 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1462

2.2.98 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1463

2.2.99 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1464

2.2.100 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1465

2.2.101 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1466

2.2.102 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1467

2.2.103 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1468

2.2.104 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{11/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(b*x+a)^(11/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1469

2.2.105 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{13/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(1/2)/(b*x+a)^(13/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^-m-c+d_x^-n.txt

Test file number 13

Integral number in file 1470

2.2.106 Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^{5/2}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^-m-c+d_x^-n.txt

Test file number 13

Integral number in file 1471

2.2.107 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)^(3/2)*(d*x+c)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1472

2.2.108 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx}(c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)^(1/2)*(d*x+c)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1473

2.2.109 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1474

2.2.110 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1475

2.2.111 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1476

2.2.112 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1477

2.2.113 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1478

2.2.114 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{11/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^(11/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1479

2.2.115 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{13/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(3/2)/(b*x+a)^(13/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1480

2.2.116 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2}(c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1481

2.2.117 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1482

2.2.118 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx}(c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1483

2.2.119 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1484

2.2.120 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1485

2.2.121 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1486

2.2.122 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1487

2.2.123 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1488

2.2.124 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{11/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(11/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1489

2.2.125 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{13/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(13/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1490

2.2.126 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{15/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(15/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1491

2.2.127 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{7/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(7/2)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1492

2.2.128 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1493

2.2.129 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1494

2.2.130 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1495

2.2.131 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1496

2.2.132 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1497

2.2.133 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{5/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 13

Integral number in file 1498

2.2.134 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{7/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(7/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 13

Integral number in file 1499

2.2.135 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{9/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(9/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1500

2.2.136 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{11/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(11/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1501

2.2.137 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{7/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(7/2)/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1502

2.2.138 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1503

2.2.139 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1504

2.2.140 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1505

2.2.141 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1506

2.2.142 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1507

2.2.143 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{5/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1508

2.2.144 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{7/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(7/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1509

2.2.145 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{9/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(9/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1510

2.2.146 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{11/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(11/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1511

2.2.147 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{9/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(9/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1512

2.2.148 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{7/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(7/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1513

2.2.149 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1514

2.2.150 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1515

2.2.151 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1516

2.2.152 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1517

2.2.153 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1518

2.2.154 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1519

2.2.155 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{7/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(7/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1520

2.2.156 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{9/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(9/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1521

2.2.157 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{-b+bc}{d} + bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/((b*c-b)/d+b*x)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*c-1>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1551

2.2.158 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{b-bc}{d} + bx}\sqrt{c-dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/((-b*c+b)/d+b*x)^(1/2)/(-d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*c-1>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1554

2.2.159 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a-bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(-b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^-m-c+d_x^-n.txt

Test file number 13

Integral number in file 1558

2.2.160 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x)^(5/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^-m-c+d_x^-n-e+f_x^-p.txt

Test file number 14

Integral number in file 50

2.2.161 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x)^(3/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 51

2.2.162 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x)^(1/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 52

2.2.163 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x)^(1/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 53

2.2.164 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x)^(3/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 54

2.2.165 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/2}(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x)^(5/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 55

2.2.166 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^{5/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 455

2.2.167 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 456

2.2.168 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 457

2.2.169 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{a + bx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 458

2.2.170 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/x/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 459

2.2.171 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/x^2/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 460

2.2.172 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3(a + bx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/x^3/(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 461

2.2.173 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^4(a + bx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^4/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 462

2.2.174 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx}}{x^2(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/x^2/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 465

2.2.175 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 466

2.2.176 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^2(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x^2/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 467

2.2.177 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^{5/2}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 468

2.2.178 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 469

2.2.179 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 470

2.2.180 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 471

2.2.181 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 472

2.2.182 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^2/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 473

2.2.183 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x^3(a+bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^3/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 474

2.2.184 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x^4(a+bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^4/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 475

2.2.185 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^2\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(b*x+a)^2/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 476

2.2.186 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^2(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(b*x+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 477

2.2.187 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^2(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(b*x+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 478

2.2.188 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a+bx} \sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 547

2.2.189 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a+bx} \sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 548

2.2.190 Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{a+bx} \sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 549

2.2.191 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 550

2.2.192 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 551

2.2.193 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 14

Integral number in file 552

2.2.194 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 14

Integral number in file 553

2.2.195 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 554

2.2.196 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 555

2.2.197 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 556

2.2.198 Maxima [F(-2)]

Exception generated.

$$\int x^2\sqrt{a+bx}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(d*x+c)^(3/2)*(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 557

2.2.199 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{a+bx}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(d*x+c)^(3/2)*(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 558

2.2.200 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 559

2.2.201 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(3/2)*(b*x+a)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 560

2.2.202 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(3/2)*(b*x+a)^(1/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 561

2.2.203 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)*(b*x+a)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 562

2.2.204 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)*(b*x+a)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 563

2.2.205 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(3/2)*(b*x+a)^(1/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 564

2.2.206 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(3/2)*(b*x+a)^(1/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 565

2.2.207 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a+bx} (c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(d*x+c)^(5/2)*(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 566

2.2.208 Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{a+bx} (c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(d*x+c)^(5/2)*(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 567

2.2.209 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 568

2.2.210 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)*(b*x+a)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 569

2.2.211 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)*(b*x+a)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 570

2.2.212 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)*(b*x+a)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 571

2.2.213 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)*(b*x+a)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 572

2.2.214 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)*(b*x+a)^(1/2)/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 573

2.2.215 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)*(b*x+a)^(1/2)/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 574

2.2.216 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)*(b*x+a)^(1/2)/x^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 575

2.2.217 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a+bx}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 576

2.2.218 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a+bx}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 577

2.2.219 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 578

2.2.220 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 579

2.2.221 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)/x/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 580

2.2.222 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^2\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)/x^2/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 581

2.2.223 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^3\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)/x^3/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 582

2.2.224 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^4\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)/x^4/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 583

2.2.225 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^5\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)/x^5/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 584

2.2.226 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{a+bx}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 585

2.2.227 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 586

2.2.228 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 587

2.2.229 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/x/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 588

2.2.230 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^2(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/x^2/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 589

2.2.231 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^3(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/x^3/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 590

2.2.232 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3\sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 591

2.2.233 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 592

2.2.234 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 593

2.2.235 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 594

2.2.236 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/x/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 595

2.2.237 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^2(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/x^2/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 596

2.2.238 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^3(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/x^3/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 597

2.2.239 Maxima [F(-2)]

Exception generated.

$$\int x^2(a+bx)^{3/2}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(3/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 598

2.2.240 Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{3/2}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(3/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 599

2.2.241 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 600

2.2.242 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} \sqrt{c + dx}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 601

2.2.243 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}\sqrt{c+dx}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 602

2.2.244 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}\sqrt{c+dx}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 603

2.2.245 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} \sqrt{c + dx}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 604

2.2.246 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} \sqrt{c + dx}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 605

2.2.247 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2} \sqrt{c+dx}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 606

2.2.248 Maxima [F(-2)]

Exception generated.

$$\int x^2(a+bx)^{3/2}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(3/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 607

2.2.249 Maxima [F(-2)]

Exception generated.

$$\int x(a + bx)^{3/2}(c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(3/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 608

2.2.250 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 609

2.2.251 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 610

2.2.252 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 611

2.2.253 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 612

2.2.254 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 613

2.2.255 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 614

2.2.256 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 615

2.2.257 Maxima [F(-2)]

Exception generated.

$$\int x^2(a+bx)^{3/2}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(3/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 616

2.2.258 Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{3/2}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(3/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 617

2.2.259 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 618

2.2.260 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 619

2.2.261 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 620

2.2.262 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 621

2.2.263 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 622

2.2.264 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 623

2.2.265 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 624

2.2.266 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 625

2.2.267 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^{3/2}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 626

2.2.268 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{3/2}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 627

2.2.269 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 628

2.2.270 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 629

2.2.271 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{x^2\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x^2/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 630

2.2.272 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{x^3\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x^3/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 631

2.2.273 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{x^4\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x^4/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 632

2.2.274 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{x^5\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x^5/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 633

2.2.275 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^{3/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 634

2.2.276 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{3/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 635

2.2.277 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 636

2.2.278 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 637

2.2.279 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^2(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)/x^2/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 638

2.2.280 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^3(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)/x^3/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 639

2.2.281 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^4(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)/x^4/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 640

2.2.282 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx)^{3/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 641

2.2.283 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{3/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 642

2.2.284 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 643

2.2.285 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 644

2.2.286 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^2(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x^2/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 645

2.2.287 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^3(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)/x^3/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 646

2.2.288 Maxima [F(-2)]

Exception generated.

$$\int x^2(a + bx)^{5/2}\sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(b*x+a)^(5/2)*(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 647

2.2.289 Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{5/2}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(5/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 648

2.2.290 Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^{5/2}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 649

2.2.291 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}\sqrt{c+dx}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 650

2.2.292 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}\sqrt{c+dx}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 651

2.2.293 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} \sqrt{c + dx}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 652

2.2.294 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} \sqrt{c + dx}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 653

2.2.295 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}\sqrt{c+dx}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 654

2.2.296 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}\sqrt{c+dx}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 655

2.2.297 Maxima [F(-2)]

Exception generated.

$$\int x^2(a+bx)^{5/2}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(5/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 656

2.2.298 Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{5/2}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(5/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 657

2.2.299 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2}(c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 658

2.2.300 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 659

2.2.301 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 660

2.2.302 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 661

2.2.303 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 662

2.2.304 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 663

2.2.305 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 664

2.2.306 Maxima [F(-2)]

Exception generated.

$$\int x(a + bx)^{5/2}(c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(5/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 665

2.2.307 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2}(c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 666

2.2.308 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 667

2.2.309 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 668

2.2.310 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 669

2.2.311 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 670

2.2.312 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 671

2.2.313 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 672

2.2.314 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 673

2.2.315 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^{5/2}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 674

2.2.316 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{5/2}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 675

2.2.317 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 676

2.2.318 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)/x/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 677

2.2.319 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}}{x^2\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)/x^2/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 678

2.2.320 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}}{x^3\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)/x^3/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 679

2.2.321 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}}{x^4\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/x^4/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 680

2.2.322 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}}{x^5\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/x^5/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 681

2.2.323 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^{5/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 682

2.2.324 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{5/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 683

2.2.325 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 684

2.2.326 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/x/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 685

2.2.327 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^2(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/x^2/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 686

2.2.328 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^3(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/x^3/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 687

2.2.329 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^4(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)/x^4/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 688

2.2.330 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^5(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)/x^5/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 689

2.2.331 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^{5/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 690

2.2.332 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^{5/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 691

2.2.333 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{5/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 692

2.2.334 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 693

2.2.335 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/x/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 694

2.2.336 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^2(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/x^2/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 695

2.2.337 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^3(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)/x^3/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 696

2.2.338 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^4(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)/x^4/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 697

2.2.339 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^5(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)/x^5/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 698

2.2.340 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{c + dx}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(d*x+c)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 699

2.2.341 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+dx}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(d*x+c)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 700

2.2.342 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*x+c)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 701

2.2.343 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(1/2)/x/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 702

2.2.344 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x^2\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(1/2)/x^2/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 703

2.2.345 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x^3\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(1/2)/x^3/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 704

2.2.346 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x^4\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(1/2)/x^4/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 705

2.2.347 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{3/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 706

2.2.348 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{3/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 707

2.2.349 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 708

2.2.350 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 709

2.2.351 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^2 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x^2/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 710

2.2.352 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^3 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x^3/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 711

2.2.353 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^4 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x^4/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 712

2.2.354 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^5 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x^5/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 713

2.2.355 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 714

2.2.356 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 715

2.2.357 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 716

2.2.358 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 717

2.2.359 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^2/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 718

2.2.360 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^3/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 719

2.2.361 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x^4\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^4/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 720

2.2.362 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x^5\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^5/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 721

2.2.363 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x^6\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/x^6/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 722

2.2.364 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 733

2.2.365 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 734

2.2.366 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 735

2.2.367 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 736

2.2.368 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 737

2.2.369 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 738

2.2.370 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 739

2.2.371 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 \sqrt{a+bx} \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^4/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 740

2.2.372 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 741

2.2.373 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 742

2.2.374 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 743

2.2.375 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 744

2.2.376 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4/(d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 748

2.2.377 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 749

2.2.378 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 750

2.2.379 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 751

2.2.380 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 752

2.2.381 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-a-bx}\sqrt{1+a+bx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(-b*x-a+1)^(1/2)/(b*x+a+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 758

2.2.382 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^{3/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 759

2.2.383 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{3/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 760

2.2.384 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{3/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 761

2.2.385 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 762

2.2.386 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 763

2.2.387 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^2(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x^2/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 764

2.2.388 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^3(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/x^3/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 765

2.2.389 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^4(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(3/2)/x^4/(b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 766

2.2.390 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c + dx)^{5/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 767

2.2.391 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 768

2.2.392 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 769

2.2.393 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 770

2.2.394 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 771

2.2.395 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^2/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 772

2.2.396 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^3/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 773

2.2.397 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^4(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^4/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 774

2.2.398 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^5(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x^5/(b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 775

2.2.399 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 776

2.2.400 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 777

2.2.401 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 778

2.2.402 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 779

2.2.403 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 780

2.2.404 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 781

2.2.405 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 782

2.2.406 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 783

2.2.407 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 784

2.2.408 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 785

2.2.409 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 786

2.2.410 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 787

2.2.411 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 788

2.2.412 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 789

2.2.413 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(c+dx)^{5/2}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 793

2.2.414 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^{5/2}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 794

2.2.415 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 795

2.2.416 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 796

2.2.417 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 797

2.2.418 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(5/2)/x/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 798

2.2.419 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/x^2/(b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 799

2.2.420 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/x^3/(b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 800

2.2.421 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^4(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/x^4/(b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 801

2.2.422 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^5(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^(5/2)/x^5/(b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 802

2.2.423 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a+bx)^{5/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 803

2.2.424 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^6/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 804

2.2.425 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 805

2.2.426 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 806

2.2.427 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 807

2.2.428 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 808

2.2.429 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 809

2.2.430 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 810

2.2.431 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 811

2.2.432 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 812

2.2.433 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 813

2.2.434 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{a+bx}}{\sqrt{-a-bx}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(b*x+a)^(1/2)/(-b*x-a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 814

2.2.435 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx}}{\sqrt{-a-bx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(b*x+a)^(1/2)/(-b*x-a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 815

2.2.436 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{\sqrt{-a-bx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)^(1/2)/(-b*x-a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 816

2.2.437 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(3/2)/(b*x+a)^2/(f*x+e),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1717

2.2.438 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{a + bx} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(7/2)/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1742

2.2.439 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{5/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 1743

2.2.440 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{3/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 1744

2.2.441 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{a + bx} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1745

2.2.442 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1746

2.2.443 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)/(e*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1747

2.2.444 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)/(e*x+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1748

2.2.445 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1749

2.2.446 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(7/2)/(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1750

2.2.447 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1751

2.2.448 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1752

2.2.449 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1753

2.2.450 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^2\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)^2/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1754

2.2.451 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^2(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^2/(e*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1755

2.2.452 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^2(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^2/(e*x+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1756

2.2.453 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^2(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)^2/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1757

2.2.454 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(7/2)/(b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1758

2.2.455 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{5/2}}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1759

2.2.456 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{3/2}}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1760

2.2.457 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1761

2.2.458 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^3\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)^3/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1762

2.2.459 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^3(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^3/(e*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1763

2.2.460 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^3(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^3/(e*x+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1764

2.2.461 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^3(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)^3/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1765

2.2.462 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(e + fx)^{5/2}}{c + dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)*(f*x+e)^(5/2)/(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1766

2.2.463 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(e+fx)^{3/2}}{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)*(f*x+e)^(3/2)/(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 1767

2.2.464 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)\sqrt{e+fx}}{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)*(f*x+e)^(1/2)/(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 1768

2.2.465 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 1769

2.2.466 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 1770

2.2.467 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)(e + fx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(d*x+c)/(f*x+e)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1771

2.2.468 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)(e + fx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(d*x+c)/(f*x+e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1772

2.2.469 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)(e + fx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(d*x+c)/(f*x+e)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1773

2.2.470 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(e + fx)^{5/2}}{c + dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^2*(f*x+e)^(5/2)/(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1774

2.2.471 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2(e+fx)^{3/2}}{c+dx} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)^2*(f*x+e)^(3/2)/(d*x+c),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 1775

2.2.472 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2\sqrt{e+fx}}{c+dx} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)^2*(f*x+e)^(1/2)/(d*x+c),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 1776

2.2.473 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{(c+dx)\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1777

2.2.474 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{(c+dx)(e+fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1778

2.2.475 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{(c+dx)(e+fx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1779

2.2.476 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{(c+dx)(e+fx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1780

2.2.477 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{(c+dx)(e+fx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 1781

2.2.478 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3(e+fx)^{5/2}}{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^3*(f*x+e)^(5/2)/(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 1782

2.2.479 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3(e+fx)^{3/2}}{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^3*(f*x+e)^(3/2)/(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1783

2.2.480 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3\sqrt{e+fx}}{c+dx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^3*(f*x+e)^(1/2)/(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1784

2.2.481 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3}{(c+dx)\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1785

2.2.482 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3}{(c+dx)(e+fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1786

2.2.483 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3}{(c+dx)(e+fx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1787

2.2.484 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3}{(c+dx)(e+fx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1788

2.2.485 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3}{(c + dx)(e + fx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 1789

2.2.486 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{(c + dx)^2 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^2/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2035

2.2.487 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(A+Bx)(d+ex)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(5/2)*(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2200

2.2.488 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(A+Bx)(d+ex)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)*(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2201

2.2.489 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(A+Bx)\sqrt{d+ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(b*x+a)^(1/2)*(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2202

2.2.490 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(b*x+a)^(1/2)/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2203

2.2.491 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(b*x+a)^(1/2)/(e*x+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 2204

2.2.492 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(b*x+a)^(1/2)/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 2205

2.2.493 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b*x+a)^(1/2)/(e*x+d)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2206

2.2.494 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b*x+a)^(1/2)/(e*x+d)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2207

2.2.495 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b*x+a)^(1/2)/(e*x+d)^(11/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2208

2.2.496 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b*x+a)^(1/2)/(e*x+d)^(13/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2209

2.2.497 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b*x+a)^(1/2)/(e*x+d)^(15/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2210

2.2.498 Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^{3/2}(A+Bx)(d+ex)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)*(e*x+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2211

2.2.499 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(A + Bx)(d + ex)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)^(3/2)*(B*x+A)*(e*x+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 2212

2.2.500 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(A + Bx)\sqrt{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)^(3/2)*(B*x+A)*(e*x+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 2213

2.2.501 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(A + Bx)}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2214

2.2.502 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(A + Bx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2215

2.2.503 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2216

2.2.504 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2217

2.2.505 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2218

2.2.506 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(11/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2219

2.2.507 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(13/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2220

2.2.508 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(15/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2221

2.2.509 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(A + Bx)}{(d + ex)^{17/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(17/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2222

2.2.510 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2}(A + Bx)(d + ex)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(B*x+A)*(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2223

2.2.511 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2}(A + Bx)(d + ex)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(B*x+A)*(e*x+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2224

2.2.512 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2}(A + Bx)\sqrt{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(B*x+A)*(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2225

2.2.513 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2226

2.2.514 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2227

2.2.515 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 2228

2.2.516 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt`

Test file number 14

Integral number in file 2229

2.2.517 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2230

2.2.518 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(11/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2231

2.2.519 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(13/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2232

2.2.520 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(15/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2233

2.2.521 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{17/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(17/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2234

2.2.522 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{19/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(19/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2235

2.2.523 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{5/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2236

2.2.524 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{3/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2237

2.2.525 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^-m-c+d_x^-n-e+f_x^-p.txt

Test file number 14

Integral number in file 2238

2.2.526 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^(1/2)/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^-m-c+d_x^-n-e+f_x^-p.txt

Test file number 14

Integral number in file 2239

2.2.527 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(e*x+d)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x-^m-c+d_x-^n-e+f_x-^p.txt
```

```
Test file number 14
```

```
Integral number in file 2240
```

2.2.528 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(e*x+d)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for
more de
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x-^m-c+d_x-^n-e+f_x-^p.txt
```

```
Test file number 14
```

```
Integral number in file 2241
```

2.2.529 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(7/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 2242

2.2.530 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(9/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 2243

2.2.531 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^(11/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 2244

2.2.532 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 2245

2.2.533 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 2246

2.2.534 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 2247

2.2.535 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2} \sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

```
Test file number 14
```

```
Integral number in file 2248
```

2.2.536 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2} (d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

```
Test file number 14
```

```
Integral number in file 2249
```


2.2.537 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2}(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2250

2.2.538 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2}(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2251

2.2.539 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2}(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2252

2.2.540 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(7/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2253

2.2.541 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 2254

2.2.542 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 2255

2.2.543 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2256

2.2.544 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2}\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2257

2.2.545 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2}(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2258

2.2.546 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2}(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2259

2.2.547 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2}(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2260

2.2.548 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2}(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2261

2.2.549 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{\sqrt{c+dx}(e+fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^(1/2)/(f*x+e)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*d)/f>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2299

2.2.550 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{\sqrt{a+bx}(e+fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^(1/2)/(f*x+e)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*d)/f>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2300

2.2.551 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(e+fx)\sqrt{2be-af+bf x}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(f*x+e)/(b*x+a)^(1/2)/(b*f*x-a*f+2*b*e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2517

2.2.552 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)}{x(a+bx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*(d*x+c)^(1/2)/x/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 12

2.2.553 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)}{x(a+bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*(d*x+c)^(1/2)/x/(b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 13

2.2.554 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)}{x(a+bx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*(d*x+c)^(1/2)/x/(b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 14

2.2.555 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(e+fx)}{x(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*(b*x+a)^(1/2)/x/(d*x+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 19

2.2.556 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(e+fx)}{x(c+dx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*(b*x+a)^(1/2)/x/(d*x+c)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 20

2.2.557 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(e+fx)}{x(c+dx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*(b*x+a)^(1/2)/x/(d*x+c)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 21

2.2.558 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+Bx+Cx^2+Dx^3}{(a+bx)\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x^m-c+d_x^n.txt

Test file number 16

Integral number in file 5

2.2.559 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^2 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 16

Integral number in file 6

2.2.560 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^3 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 16

Integral number in file 7

2.2.561 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^4 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^4/(d*x+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 16

Integral number in file 8

2.2.562 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^5 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^5/(d*x+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 16

Integral number in file 9

2.2.563 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-^n.txt

Test file number 16

Integral number in file 14

2.2.564 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^2(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")
)

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-^n.txt

Test file number 16

Integral number in file 15

2.2.565 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^3(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-^n.txt

Test file number 16

Integral number in file 16

2.2.566 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^4(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^4/(d*x+c)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-^n.txt

Test file number 16

Integral number in file 17

2.2.567 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-^n.txt

Test file number 16

Integral number in file 22

2.2.568 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^2(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-^n.txt

Test file number 16

Integral number in file 23

2.2.569 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^3(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x-^m-c+d_x-^n.txt

Test file number 16

Integral number in file 24

2.2.570 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 5

2.2.571 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^2/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 6

2.2.572 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^3/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((f-d*e)*(f+d*e)>0)', see 'assume?' for mor

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 7

2.2.573 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 12

2.2.574 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^2/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 13

2.2.575 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^3/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((f-d*e)*(f+d*e)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 14

2.2.576 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((4*b^2*c>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 24

2.2.577 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^2/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((4*b^2*c>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 25

2.2.578 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^3/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*f-b*e)>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 26

2.2.579 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((4*b^2*c>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 31

2.2.580 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^2/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((4*b^2*c>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 32

2.2.581 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^3/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*f-b*e)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 33

2.2.582 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{\sqrt{-1 + x}\sqrt{1 + x}(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^3/(-1+x)^(1/2)/(1+x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-d)*(e+d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 40

2.2.583 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{c + dx} \sqrt{e + fx} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)^2*(C*x^2+B*x+A)*(d*x+c)^(1/2)*(f*x+e)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f+d*e>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 41

2.2.584 Maxima [F(-2)]

Exception generated.

$$\int (a + bx) \sqrt{c + dx} \sqrt{e + fx} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*(C*x^2+B*x+A)*(d*x+c)^(1/2)*(f*x+e)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f+d*e>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 42

2.2.585 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c+dx}\sqrt{e+fx}(A+Bx+Cx^2) dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)*(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f+d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 43

2.2.586 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}\sqrt{e+fx}(A+Bx+Cx^2)}{a+bx} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)*(f*x+e)^(1/2)/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*a*d*f-b*c*f>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 44

2.2.587 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}\sqrt{e+fx}(A+Bx+Cx^2)}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)*(f*x+e)^(1/2)/(b*x+a)^2,x, algorithm=
"maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(2*a*d*f-b*c*f>0)', see 'assume?' fo
r more
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-
x-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 17

Integral number in file 45

2.2.588 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}\sqrt{e+fx}(A+Bx+Cx^2)}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)*(f*x+e)^(1/2)/(b*x+a)^3,x, algorithm=
"maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((a*d-b*c)>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-
x-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 17

Integral number in file 46

2.2.589 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2 \sqrt{c+dx}(A+Bx+Cx^2)}{\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^2*(C*x^2+B*x+A)*(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 47

2.2.590 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)\sqrt{c+dx}(A+Bx+Cx^2)}{\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(C*x^2+B*x+A)*(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 48

2.2.591 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 49

2.2.592 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)/(b*x+a)/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((((-(2*a*d*f)/b^2)>0))', see 'assume?' for m

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 50

2.2.593 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)^2\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)/(b*x+a)^2/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see 'assume?' for m

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 51

2.2.594 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)^3\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)/(b*x+a)^3/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see 'assume?' for m

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 52

2.2.595 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)^4\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)/(b*x+a)^4/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*d-b*c)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 53

2.2.596 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2(A+Bx+Cx^2)}{\sqrt{c+dx}\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)^2*(C*x^2+B*x+A)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 54

2.2.597 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(A + Bx + Cx^2)}{\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(C*x^2+B*x+A)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 55

2.2.598 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+B*x+A)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 56

2.2.599 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see 'assume?' ' for m
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 57

2.2.600 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^2\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see 'assume?' ' for m
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 58

2.2.601 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^3 \sqrt{c + dx} \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*d-b*c)>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 59

2.2.602 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^4 \sqrt{c + dx} \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((C*x^2+B*x+A)/(b*x+a)^4/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*d-b*c)>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 60

2.2.603 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-1 + a + ax^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*x^2+a-1),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.2-c_x^m-a+b_x^2-p.txt

Test file number 19

Integral number in file 257

2.2.604 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-c - d + (c - d)x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(-c-d+(c-d)*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.2-c_x^m-a+b_x^2-p.txt

Test file number 19

Integral number in file 258

2.2.605 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + (b - ac)x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+(-a*c+b)*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*c-b>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.2-c_x^m-a+b_x^2-p.txt

Test file number 19

Integral number in file 261

2.2.606 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - (b - ac)x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a-(-a*c+b)*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*c-b>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.2-c_x^m-a+b_x^2-p.txt

Test file number 19

Integral number in file 262

2.2.607 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{c(a-d) - (b-c)x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*(a-d)-(b-c)*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((c-b)*(d-a)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.2-c_x^m-a+b_x^2-p.txt

Test file number 19

Integral number in file 263

2.2.608 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{c+dx^2}}{a+bx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 677

2.2.609 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+dx^2}}{a+bx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^-m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 679

2.2.610 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx^2)^{3/2}}{a+bx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^-m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 686

2.2.611 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + dx^2)^{3/2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 688

2.2.612 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c + dx^2)^{5/2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 695

2.2.613 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + dx^2)^{5/2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 697

2.2.614 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 703

2.2.615 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx^2)\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 704

2.2.616 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx^2)\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 705

2.2.617 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx^2)(c+dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^-m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 714

2.2.618 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx^2)(c+dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^-m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 716

2.2.619 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx^2)(c+dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 723

2.2.620 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx^2)(c+dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 725

2.2.621 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{c + dx^2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(d*x^2+c)^(1/2)/(b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 732

2.2.622 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{c + dx^2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x^2+c)^(1/2)/(b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 734

2.2.623 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c + dx^2)^{3/2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(d*x^2+c)^(3/2)/(b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 741

2.2.624 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + dx^2)^{3/2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x^2+c)^(3/2)/(b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 743

2.2.625 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c + dx^2)^{5/2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(d*x^2+c)^(5/2)/(b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 750

2.2.626 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + dx^2)^{5/2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(d*x^2+c)^(5/2)/(b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 752

2.2.627 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx^2)^2 \sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(b*x^2+a)^2/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 759

2.2.628 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx^2)^2 \sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x^2+a)^2/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 761

2.2.629 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^2 (c + dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(b*x^2+a)^2/(d*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 768

2.2.630 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^2 (c + dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(b*x^2+a)^2/(d*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 770

2.2.631 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^2 (c + dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(b*x^2+a)^2/(d*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 777

2.2.632 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^2 (c + dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(b*x^2+a)^2/(d*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 779

2.2.633 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{a + bx^2}}{\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 934

2.2.634 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx^2}}{\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 935

2.2.635 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx^2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 936

2.2.636 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{x\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(1/2)/x/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 937

2.2.637 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{x^3\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(1/2)/x^3/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 938

2.2.638 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{x^5\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(1/2)/x^5/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 939

2.2.639 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx^2)^{3/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 944

2.2.640 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx^2)^{3/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 945

2.2.641 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2)^{3/2}}{\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 946

2.2.642 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(3/2)/x/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 947

2.2.643 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^3 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(3/2)/x^3/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^-m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 948

2.2.644 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^5 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(3/2)/x^5/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^-m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 949

2.2.645 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx^2)^{5/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^5*(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x²-^p-c+d_x²-^q.txt

Test file number 21

Integral number in file 954

2.2.646 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx^2)^{5/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x²-^p-c+d_x²-^q.txt

Test file number 21

Integral number in file 955

2.2.647 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2)^{5/2}}{\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 956

2.2.648 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(5/2)/x/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 957

2.2.649 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x^3 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(5/2)/x^3/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^-m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 958

2.2.650 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x^5 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)^(5/2)/x^5/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^-m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 959

2.2.651 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a+bx^2}\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 969

2.2.652 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx^2}\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 970

2.2.653 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx^2}\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 971

2.2.654 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^2}\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 972

2.2.655 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{a + bx^2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/x^3/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 973

2.2.656 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \sqrt{a + bx^2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/x^5/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 974

2.2.657 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)^{3/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt`

Test file number 21

Integral number in file 980

2.2.658 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^{3/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt`

Test file number 21

Integral number in file 981

2.2.659 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^{3/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt`

Test file number 21

Integral number in file 982

2.2.660 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)^{5/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt`

Test file number 21

Integral number in file 983

2.2.661 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^{5/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 984

2.2.662 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^{5/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 985

2.2.663 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)^{7/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x^2+a)^(7/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt`

Test file number 21

Integral number in file 986

2.2.664 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^{7/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(b*x^2+a)^(7/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt`

Test file number 21

Integral number in file 987

2.2.665 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^{7/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x^2+a)^(7/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt`

Test file number 21

Integral number in file 988

2.2.666 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)^{9/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x^2+a)^(9/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt`

Test file number 21

Integral number in file 989

2.2.667 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a-bx^2}\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(-b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 990

2.2.668 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a-bx^2}\sqrt{c-dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(-b*x^2+a)^(1/2)/(-d*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 991

2.2.669 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)}{e + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)*(d*x^2+c)/(f*x^2+e),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 5

2.2.670 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)*(d*x^2+c)/(f*x^2+e)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 6

2.2.671 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)*(d*x^2+c)/(f*x^2+e)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 7

2.2.672 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)*(d*x^2+c)/(f*x^2+e)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 8

2.2.673 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^2}{e + fx^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x^2+a)*(d*x^2+c)^2/(f*x^2+e),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 12

2.2.674 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^2}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x^2+a)*(d*x^2+c)^2/(f*x^2+e)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 13

2.2.675 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^2}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x^2+a)*(d*x^2+c)^2/(f*x^2+e)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-
a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 14

2.2.676 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^2}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x^2+a)*(d*x^2+c)^2/(f*x^2+e)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-
a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 15

2.2.677 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^3}{e + fx^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x^2+a)*(d*x^2+c)^3/(f*x^2+e),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 19

2.2.678 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^3}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x^2+a)*(d*x^2+c)^3/(f*x^2+e)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 20

2.2.679 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^3}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x^2+a)*(d*x^2+c)^3/(f*x^2+e)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 21

2.2.680 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^3}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x^2+a)*(d*x^2+c)^3/(f*x^2+e)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 22

2.2.681 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)\sqrt{c + dx^2}}{e + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)*(d*x^2+c)^(1/2)/(f*x^2+e),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 57

2.2.682 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx^2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 6

2.2.683 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx^2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 7

2.2.684 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx^2}}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 8

2.2.685 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx^2}}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 9

2.2.686 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx^2}}{x^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(1/2)/x^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 10

2.2.687 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{3/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(3/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 16

2.2.688 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{3/2}}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(3/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 17

2.2.689 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{3/2}}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(3/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 18

2.2.690 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{3/2}}{x^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(3/2)/x^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 19

2.2.691 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{3/2}}{x^6} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(3/2)/x^6,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 20

2.2.692 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{3/2}}{x^7} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(3/2)/x^7,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 21

2.2.693 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{5/2}}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(5/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 27

2.2.694 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{5/2}}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(5/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 28

2.2.695 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{5/2}}{x^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(5/2)/x^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 29

2.2.696 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{5/2}}{x^6} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(5/2)/x^6,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 30

2.2.697 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{5/2}}{x^7} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(5/2)/x^7,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 31

2.2.698 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{5/2}}{x^8} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(5/2)/x^8,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 32

2.2.699 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^2)^{5/2}}{x^9} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x^2)^(5/2)/x^9,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 33

2.2.700 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{bx^n}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x^n)^(1/3),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-n/3>0)', see 'assume?' for more details)I

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 116

2.2.701 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bx^n)^{2/3}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x^n)^(2/3),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*n)/3>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 124

2.2.702 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx^n}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^n)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n/2-2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 135

2.2.703 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx^n}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x^n)^(1/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n/2-3>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 136

2.2.704 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^n)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x^n)^(3/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((3*n)/2-2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 140

2.2.705 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^n)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^n)^(3/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((3*n)/2-3>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 141

2.2.706 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx^n)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^n)^(3/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((3*n)/2-4>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 142

2.2.707 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{bx^n}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(b*x^n)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2-n/2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n-p.txt

Test file number 25

Integral number in file 143

2.2.708 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{bx^n}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(b*x^n)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-n/2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n-p.txt

Test file number 25

Integral number in file 144

2.2.709 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{bx^n}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x^n)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-n/2>0)', see 'assume?' for more details)I

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n-p.txt

Test file number 25

Integral number in file 145

2.2.710 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(bx^n)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(b*x^n)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2-(3*n)/2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n-p.txt

Test file number 25

Integral number in file 149

2.2.711 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(bx^n)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(b*x^n)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(3*n)/2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 150

2.2.712 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bx^n)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x^n)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*n)/2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 151

2.2.713 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-1 + a + bx^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x^3+a-1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1.0>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 365

2.2.714 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-1 + a - bx^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(-b*x^3+a-1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1.0>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 366

2.2.715 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^n}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*x^n)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-2>0)', see 'assume?' for more details)Is

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2456

2.2.716 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^n}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*x^n)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-3>0)', see 'assume?' for more details)Is

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2457

2.2.717 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*x^n)^2/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-2>0)', see 'assume?' for more details)Is

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2463

2.2.718 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*x^n)^2/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-3>0)', see 'assume?' for more details)Is

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2464

2.2.719 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^3}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*x^n)^3/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(n-2>0)', see 'assume?' for more det
ails)Is
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2470

2.2.720 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^3}{x^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*x^n)^3/x^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(n-3>0)', see 'assume?' for more det
ails)Is
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2471

2.2.721 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{-1-2n}}{(a+bx^n)^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^(-1-2*n)/(a+b*x^n)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2630

2.2.722 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8 \sqrt{c+dx^3}}{a+bx^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^8*(d*x^3+c)^(1/2)/(b*x^3+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 358

2.2.723 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{c + dx^3}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(d*x^3+c)^(1/2)/(b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 359

2.2.724 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{c + dx^3}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(d*x^3+c)^(1/2)/(b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 360

2.2.725 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(c + dx^3)^{3/2}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^8*(d*x^3+c)^(3/2)/(b*x^3+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 368

2.2.726 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(c + dx^3)^{3/2}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(d*x^3+c)^(3/2)/(b*x^3+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 369

2.2.727 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c + dx^3)^{3/2}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(d*x^3+c)^(3/2)/(b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 370

2.2.728 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)\sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(b*x^3+a)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 378

2.2.729 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)\sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(b*x^3+a)/(d*x^3+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 379

2.2.730 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)\sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(b*x^3+a)/(d*x^3+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 380

2.2.731 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)(c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^8/(b*x^3+a)/(d*x^3+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 388

2.2.732 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)(c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(b*x^3+a)/(d*x^3+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 389

2.2.733 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)(c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(b*x^3+a)/(d*x^3+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 390

2.2.734 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8 \sqrt{c + dx^3}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8*(d*x^3+c)^(1/2)/(b*x^3+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 460

2.2.735 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{c + dx^3}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(d*x^3+c)^(1/2)/(b*x^3+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 461

2.2.736 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{c + dx^3}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(d*x^3+c)^(1/2)/(b*x^3+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 462

2.2.737 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(c + dx^3)^{3/2}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^8*(d*x^3+c)^(3/2)/(b*x^3+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 470

2.2.738 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(c + dx^3)^{3/2}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(d*x^3+c)^(3/2)/(b*x^3+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 471

2.2.739 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c + dx^3)^{3/2}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(d*x^3+c)^(3/2)/(b*x^3+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 472

2.2.740 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)^2 \sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^8/(b*x^3+a)^2/(d*x^3+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 480

2.2.741 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)^2 \sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(b*x^3+a)^2/(d*x^3+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 481

2.2.742 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)^2 \sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(b*x^3+a)^2/(d*x^3+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 482

2.2.743 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)^2 (c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(b*x^3+a)^2/(d*x^3+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt`

Test file number 27

Integral number in file 490

2.2.744 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)^2 (c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x^3+a)^2/(d*x^3+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt`

Test file number 27

Integral number in file 491

2.2.745 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)^2 (c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(b*x^3+a)^2/(d*x^3+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 492

2.2.746 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a + bx^3}\sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(b*x^3+a)^(1/2)/(d*x^3+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 506

2.2.747 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx^3}\sqrt{c+dx^3}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(b*x^3+a)^(1/2)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 507

2.2.748 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^3}\sqrt{c+dx^3}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(b*x^3+a)^(1/2)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 508

2.2.749 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 \sqrt{a + bx^3} \sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x^4/(b*x^3+a)^(1/2)/(d*x^3+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 509

2.2.750 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11} \sqrt[3]{a + bx^3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^11*(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 658

2.2.751 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8 \sqrt[3]{a + bx^3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8*(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt`

Test file number 27

Integral number in file 659

2.2.752 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt[3]{a + bx^3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt`

Test file number 27

Integral number in file 660

2.2.753 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt[3]{a+bx^3}}{c+dx^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 661

2.2.754 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a+bx^3)^{2/3}}{c+dx^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^11*(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 677

2.2.755 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(a + bx^3)^{2/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8*(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 678

2.2.756 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + bx^3)^{2/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 679

2.2.757 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^3)^{2/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 680

2.2.758 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(a + bx^3)^{4/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8*(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 696

2.2.759 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + bx^3)^{4/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 697

2.2.760 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^3)^{4/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 698

2.2.761 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹⁴/(b*x³+a)^(1/3)/(d*x³+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m}-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 714

2.2.762 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹/(b*x³+a)^(1/3)/(d*x³+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m}-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 715

2.2.763 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 716

2.2.764 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 717

2.2.765 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 718

2.2.766 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a+bx^3)^{2/3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^11/(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 732

2.2.767 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)^{2/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^8/(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 733

2.2.768 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)^{2/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 734

2.2.769 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)^{2/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 735

2.2.770 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^14/(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 747

2.2.771 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹/(b*x³+a)^(4/3)/(d*x³+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_xⁿ-p-c+d_xⁿ-q.txt

Test file number 27

Integral number in file 748

2.2.772 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁸/(b*x³+a)^(4/3)/(d*x³+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_xⁿ-p-c+d_xⁿ-q.txt

Test file number 27

Integral number in file 749

2.2.773 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt`

Test file number 27

Integral number in file 750

2.2.774 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt`

Test file number 27

Integral number in file 751

2.2.775 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7 \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 787

2.2.776 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 789

2.2.777 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹/(b*x⁴+a)/(d*x⁴+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 805

2.2.778 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁷/(b*x⁴+a)/(d*x⁴+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 806

2.2.779 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(b*x^4+a)/(d*x^4+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 807

2.2.780 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{15}}{(a + bx^4)^2 \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^15/(b*x^4+a)^2/(d*x^4+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 822

2.2.781 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^4)^2 \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹/(b*x⁴+a)²/(d*x⁴+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x-ⁿ-^p-c+d_x-ⁿ-^q.txt

Test file number 27

Integral number in file 823

2.2.782 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^4)^2 \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁷/(b*x⁴+a)²/(d*x⁴+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x-ⁿ-^p-c+d_x-ⁿ-^q.txt

Test file number 27

Integral number in file 824

2.2.783 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^4)^2 \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(b*x^4+a)^2/(d*x^4+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 825

2.2.784 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{17}}{(a + bx^6) \sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^17/(b*x^6+a)/(d*x^6+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 853

2.2.785 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^6)\sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹/(b*x⁶+a)/(d*x⁶+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m}-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 854

2.2.786 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^6)\sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁵/(b*x⁶+a)/(d*x⁶+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m}-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 855

2.2.787 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{17}}{(a + bx^6)^2 \sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹⁷/(b*x⁶+a)²/(d*x⁶+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x-ⁿ-^p-c+d_x-ⁿ-^q.txt

Test file number 27

Integral number in file 870

2.2.788 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^6)^2 \sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹/(b*x⁶+a)²/(d*x⁶+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x-ⁿ-^p-c+d_x-ⁿ-^q.txt

Test file number 27

Integral number in file 871

2.2.789 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx^6)^2 \sqrt{c+dx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(b*x^6+a)^2/(d*x^6+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 872

2.2.790 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{23}}{(a+bx^8) \sqrt{c+dx^8}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^23/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 887

2.2.791 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{15}}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹⁵/(b*x⁸+a)/(d*x⁸+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m}-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 888

2.2.792 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁷/(b*x⁸+a)/(d*x⁸+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m}-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 889

2.2.793 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{23}}{(a + bx^8)^2 \sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^23/(b*x^8+a)^2/(d*x^8+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt
```

Test file number 27

Integral number in file 908

2.2.794 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{15}}{(a + bx^8)^2 \sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^15/(b*x^8+a)^2/(d*x^8+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt
```

Test file number 27

Integral number in file 909

2.2.795 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a+bx^8)^2 \sqrt{c+dx^8}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7/(b*x^8+a)^2/(d*x^8+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 910

2.2.796 Maxima [F(-2)]

Exception generated.

$$\int \frac{a+bx}{d+ex^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x^3+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x^m-a+b_x^n-p.txt

Test file number 29

Integral number in file 11

2.2.797 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{d - ex^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(-e*x^3+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 12

2.2.798 Maxima [F(-2)]

Exception generated.

$$\int \frac{bx + cx^2}{d + ex^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x)/(e*x^3+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 25

2.2.799 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{d - ex^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)/(-e*x^3+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 26

2.2.800 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{d + ex^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^2/(e*x^3+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 73

2.2.801 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^3}{d + ex^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^3/(e*x^3+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x-^m-a+b_x-^n-^p.txt

Test file number 29

Integral number in file 74

2.2.802 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^4}{d + ex^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^4/(e*x^3+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x-^m-a+b_x-^n-^p.txt

Test file number 29

Integral number in file 75

2.2.803 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + cx + bx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x^2+c*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-4*a*b>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.1-a+b_x+c_x^2-^p.txt

Test file number 32

Integral number in file 88

2.2.804 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{b + 2ax + bx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x^2+2*a*x+b),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.1-a+b_x+c_x^2-^p.txt

Test file number 32

Integral number in file 89

2.2.805 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + cx + bx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x^2+c*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-4*a*b>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.1-a+b_x+c_x^2-^p.txt

Test file number 32

Integral number in file 95

2.2.806 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(b + 2ax + bx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x^2+2*a*x+b)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.1-a+b_x+c_x^2-^p.txt

Test file number 32

Integral number in file 96

2.2.807 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(\frac{a}{b}\right)^{2/n} + x^2 - 2\left(\frac{a}{b}\right)^{\frac{1}{n}} x \cos\left(\frac{\pi - 2k\pi}{n}\right)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/((a/b)^(2/n)+x^2-2*(a/b)^(1/n)*x*cos((-2*pi*k+pi)/n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1>0)', see 'assume?' for more details)Is 1

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.1-a+b_x+c_x^2-^p.txt

Test file number 32

Integral number in file 98

2.2.808 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 289

2.2.809 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x)^(1/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 290

2.2.810 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x)^(1/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 291

2.2.811 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x)^(1/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 292

2.2.812 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x)^(1/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 293

2.2.813 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x)^(1/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 294

2.2.814 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 299

2.2.815 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x)^(3/2)/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 300

2.2.816 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x)^(3/2)/(e*x+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 301

2.2.817 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x)^(5/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 306

2.2.818 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x)^(5/2)/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 307

2.2.819 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 308

2.2.820 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)\sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(c*x^2+b*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 319

2.2.821 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 320

2.2.822 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^3/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 321

2.2.823 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 326

2.2.824 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 327

2.2.825 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^3/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 328

2.2.826 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 334

2.2.827 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 335

2.2.828 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(7/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 361

2.2.829 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(5/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 362

2.2.830 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(3/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 363

2.2.831 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)/(c*x^2+b*x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 364

2.2.832 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(1/2)/(c*x^2+b*x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 365

2.2.833 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(3/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 366

2.2.834 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(5/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 367

2.2.835 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2}(bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(7/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 368

2.2.836 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(9/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 369

2.2.837 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(7/2)/(c*x^2+b*x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 370

2.2.838 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(5/2)/(c*x^2+b*x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 371

2.2.839 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)/(c*x^2+b*x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 372

2.2.840 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)/(c*x^2+b*x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 373

2.2.841 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^(1/2)/(c*x^2+b*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 374

2.2.842 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^(3/2)/(c*x^2+b*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 375

2.2.843 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(5/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 376

2.2.844 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2}(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(7/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 377

2.2.845 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(9/2)/(c*x^2+b*x)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 378

2.2.846 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(7/2)/(c*x^2+b*x)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 379

2.2.847 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(5/2)/(c*x^2+b*x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 380

2.2.848 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)/(c*x^2+b*x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 381

2.2.849 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)/(c*x^2+b*x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 382

2.2.850 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(1/2)/(c*x^2+b*x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 383

2.2.851 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(3/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 384

2.2.852 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(5/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 385

2.2.853 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{d+ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 529

2.2.854 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 530

2.2.855 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 531

2.2.856 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{(d+ex)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+a)^(1/2)/(e*x+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 532

2.2.857 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{(d+ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(1/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 533

2.2.858 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+cx^2)^{3/2}}{d+ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 538

2.2.859 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(3/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 539

2.2.860 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 540

2.2.861 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 541

2.2.862 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(3/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 542

2.2.863 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(3/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 543

2.2.864 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(3/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 544

2.2.865 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 549

2.2.866 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 550

2.2.867 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 551

2.2.868 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 552

2.2.869 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 553

2.2.870 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 554

2.2.871 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 555

2.2.872 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 556

2.2.873 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(5/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 557

2.2.874 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)^2 \sqrt{a + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 566

2.2.875 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^3/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 567

2.2.876 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^4/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 568

2.2.877 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{1-x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*x+c)^(1/2)/(-x^2+1),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*c-4*d>0)', see 'assume?' for more
detail
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt
```

```
Test file number 33
```

```
Integral number in file 651
```

2.2.878 Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^3 \sqrt{cd^2+2cdex+ce^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt
```

```
Test file number 33
```

```
Integral number in file 1029
```

2.2.879 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 \sqrt{cd^2 + 2cdex + ce^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1030

2.2.880 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{cd^2 + 2cdex + ce^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1032

2.2.881 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{d + ex} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1033

2.2.882 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1034

2.2.883 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1035

2.2.884 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1036

2.2.885 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1037

2.2.886 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^6} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1038

2.2.887 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (cd^2 + 2cdex + ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1039

2.2.888 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (cd^2 + 2cdex + ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1040

2.2.889 Maxima [F(-2)]

Exception generated.

$$\int (cd^2 + 2cdex + ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1042

2.2.890 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1044

2.2.891 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1045

2.2.892 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1046

2.2.893 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1047

2.2.894 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1048

2.2.895 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1049

2.2.896 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (cd^2 + 2cdex + ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1050

2.2.897 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (cd^2 + 2cdex + ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1051

2.2.898 Maxima [F(-2)]

Exception generated.

$$\int (cd^2 + 2cdex + ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1053

2.2.899 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1056

2.2.900 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1057

2.2.901 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1058

2.2.902 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1059

2.2.903 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1060

2.2.904 Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1061

2.2.905 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^8}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^8/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1154

2.2.906 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^6}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^6/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1156

2.2.907 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1158

2.2.908 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1160

2.2.909 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1163

2.2.910 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1165

2.2.911 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^8}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^8/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1166

2.2.912 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^6}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^6/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1168

2.2.913 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1170

2.2.914 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1172

2.2.915 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1175

2.2.916 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{10}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^10/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1177

2.2.917 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^8}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^8/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1179

2.2.918 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^6}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^6/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1181

2.2.919 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1183

2.2.920 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1185

2.2.921 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1188

2.2.922 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1190

2.2.923 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^4 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^4*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1191

2.2.924 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^3 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^3*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1192

2.2.925 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^2 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^2*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1193

2.2.926 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{bd + 2cdx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1195

2.2.927 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1196

2.2.928 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1197

2.2.929 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt
```

```
Test file number 33
```

```
Integral number in file 1198
```

2.2.930 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt
```

```
Test file number 33
```

```
Integral number in file 1199
```

2.2.931 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1200

2.2.932 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1201

2.2.933 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^5 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^5*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1202

2.2.934 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^4 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^4*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1203

2.2.935 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^3 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^3*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more data

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1204

2.2.936 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^2 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^2*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more data

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1205

2.2.937 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{bd + 2cdx} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1207

2.2.938 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1208

2.2.939 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1209

2.2.940 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1210

2.2.941 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1211

2.2.942 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1212

2.2.943 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1213

2.2.944 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1214

2.2.945 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1215

2.2.946 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1216

2.2.947 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^5 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^5*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1217

2.2.948 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^4 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^4*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1218

2.2.949 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^3 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^3*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1219

2.2.950 Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^2 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^2*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1220

2.2.951 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{bd + 2cdx} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1222

2.2.952 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1223

2.2.953 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1224

2.2.954 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1225

2.2.955 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1226

2.2.956 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1227

2.2.957 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1228

2.2.958 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1229

2.2.959 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1230

2.2.960 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1231

2.2.961 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^{11}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^11,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1232

2.2.962 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^{12}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^12,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1233

2.2.963 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt
```

```
Test file number 33
```

```
Integral number in file 1234
```

2.2.964 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt
```

```
Test file number 33
```

```
Integral number in file 1235
```

2.2.965 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1236

2.2.966 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1238

2.2.967 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1239

2.2.968 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1240

2.2.969 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1241

2.2.970 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1242

2.2.971 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^3}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 1243

2.2.972 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 1244

2.2.973 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1246

2.2.974 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1247

2.2.975 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^3 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt
```

```
Test file number 33
```

```
Integral number in file 1248
```

2.2.976 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt
```

```
Test file number 33
```

```
Integral number in file 1249
```

2.2.977 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^6}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^6/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1250

2.2.978 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^5}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^5/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1251

2.2.979 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1252

2.2.980 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^3}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1253

2.2.981 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1254

2.2.982 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(2*c*d*x+b*d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1256

2.2.983 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1257

2.2.984 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^3 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1258

2.2.985 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1259

2.2.986 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{11/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(11/2)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1285

2.2.987 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{9/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(9/2)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1286

2.2.988 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{7/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1287

2.2.989 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{5/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1288

2.2.990 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{3/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1289

2.2.991 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bd + 2cdx}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1290

2.2.992 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{bd + 2cdx} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1291

2.2.993 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{3/2} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1292

2.2.994 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{5/2} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1293

2.2.995 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{7/2} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1294

2.2.996 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{15/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^(15/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1295

2.2.997 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{13/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(13/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1296

2.2.998 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{11/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(11/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1297

2.2.999 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{9/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(9/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1298

2.2.1000 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{7/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1299

2.2.1001 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{5/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1300

2.2.1002 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{3/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1301

2.2.1003 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bd + 2cdx}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1302

2.2.1004 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{bd + 2cdx} (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1303

2.2.1005 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{3/2} (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt
```

Test file number 33

Integral number in file 1304

2.2.1006 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{5/2} (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt
```

Test file number 33

Integral number in file 1305

2.2.1007 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{7/2} (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1306

2.2.1008 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{17/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*d*x+b*d)^(17/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1307

2.2.1009 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{15/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(15/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1308

2.2.1010 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{13/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(13/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1309

2.2.1011 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{11/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(11/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1310

2.2.1012 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{9/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(9/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1311

2.2.1013 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{7/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1312

2.2.1014 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{5/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1313

2.2.1015 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{3/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1314

2.2.1016 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bd + 2cdx}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1315

2.2.1017 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{bd + 2cdx} (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1316

2.2.1018 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{3/2} (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1317

2.2.1019 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{5/2} (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1318

2.2.1020 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{7/2} (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1319

2.2.1021 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate(((b*x+a)^2)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1548

2.2.1022 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(((b*x+a)^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1549

2.2.1023 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(((b*x+a)^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1550

2.2.1024 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(((b*x+a)^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1551

2.2.1025 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(((b*x+a)^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1552

2.2.1026 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(((b*x+a)^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1553

2.2.1027 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1560

2.2.1028 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1561

2.2.1029 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1562

2.2.1030 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1563

2.2.1031 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1564

2.2.1032 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1565

2.2.1033 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1566

2.2.1034 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1567

2.2.1035 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1568

2.2.1036 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1575

2.2.1037 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1576

2.2.1038 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1577

2.2.1039 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1578

2.2.1040 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1579

2.2.1041 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1580

2.2.1042 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1581

2.2.1043 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1582

2.2.1044 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1583

2.2.1045 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1584

2.2.1046 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^11,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1585

2.2.1047 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^12,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1586

2.2.1048 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/((b*x+a)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1592

2.2.1049 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{a^2+2abx+b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^2/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1593

2.2.1050 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{a^2+2abx+b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^3/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1594

2.2.1051 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{a^2+2abx+b^2x^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^4/((b*x+a)^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1595

2.2.1052 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a^2+2abx+b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1601

2.2.1053 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (a^2+2abx+b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1602

2.2.1054 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a^2+2abx+b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1603

2.2.1055 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a^2+2abx+b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1611

2.2.1056 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(a^2+2abx+b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1612

2.2.1057 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a^2+2abx+b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1613

2.2.1058 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1645

2.2.1059 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1646

2.2.1060 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1647

2.2.1061 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1648

2.2.1062 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1649

2.2.1063 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(a^2+2abx+b^2x^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1650

2.2.1064 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(a^2+2abx+b^2x^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1651

2.2.1065 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(a^2+2abx+b^2x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1652

2.2.1066 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2}(a^2+2abx+b^2x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1653

2.2.1067 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{11/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(11/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1654

2.2.1068 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{9/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1655

2.2.1069 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1656

2.2.1070 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1657

2.2.1071 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1658

2.2.1072 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1659

2.2.1073 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1660

2.2.1074 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1661

2.2.1075 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2} (a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 1662

2.2.1076 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2} (a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 1663

2.2.1077 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{15/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(15/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1664

2.2.1078 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{13/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(13/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1665

2.2.1079 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{11/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(11/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1666

2.2.1080 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{9/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1667

2.2.1081 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1668

2.2.1082 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1669

2.2.1083 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1670

2.2.1084 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1671

2.2.1085 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1672

2.2.1086 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1673

2.2.1087 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2} (a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 1674

2.2.1088 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2} (a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 1675

2.2.1089 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^4 \sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^4*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1907

2.2.1090 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1908

2.2.1091 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 \sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1909

2.2.1092 Maxima [F(-2)]

Exception generated.

$$\int (d + ex) \sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1910

2.2.1093 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1911

2.2.1094 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for mor

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1912

2.2.1095 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1913

2.2.1096 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1914

2.2.1097 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1915

2.2.1098 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1916

2.2.1099 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1917

2.2.1100 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^4 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1918

2.2.1101 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1919

2.2.1102 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1920

2.2.1103 Maxima [F(-2)]

Exception generated.

$$\int (d + ex) (ade + (cd^2 + ae^2)x + cdex^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1921

2.2.1104 Maxima [F(-2)]

Exception generated.

$$\int (ade + (cd^2 + ae^2)x + cdex^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1922

2.2.1105 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1923

2.2.1106 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1924

2.2.1107 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1925

2.2.1108 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1926

2.2.1109 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1927

2.2.1110 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1928

2.2.1111 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1929

2.2.1112 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1930

2.2.1113 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^4 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^4*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1931

2.2.1114 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1932

2.2.1115 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1933

2.2.1116 Maxima [F(-2)]

Exception generated.

$$\int (d + ex) (ade + (cd^2 + ae^2)x + cdex^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1934

2.2.1117 Maxima [F(-2)]

Exception generated.

$$\int (ade + (cd^2 + ae^2)x + cdex^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1935

2.2.1118 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1936

2.2.1119 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1937

2.2.1120 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1938

2.2.1121 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1939

2.2.1122 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1940

2.2.1123 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1941

2.2.1124 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1942

2.2.1125 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1943

2.2.1126 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1944

2.2.1127 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1945

2.2.1128 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 1946

2.2.1129 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1947

2.2.1130 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1948

2.2.1131 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1949

2.2.1132 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for mor

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1950

2.2.1133 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm=
"maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?'
for mor
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1951

2.2.1134 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm=
"maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?'
for mor
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1952

2.2.1135 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1953

2.2.1136 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1954

2.2.1137 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1955

2.2.1138 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1956

2.2.1139 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1957

2.2.1140 Maxima [F(-2)]

Exception generated.

$$\int \frac{d+ex}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1958

2.2.1141 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1959

2.2.1142 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for mor

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1960

2.2.1143 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm=
"maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?'
for mor
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1961

2.2.1144 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm=
"maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?'
for mor
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1962

2.2.1145 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1963

2.2.1146 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^6}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^6/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1964

2.2.1147 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1965

2.2.1148 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1966

2.2.1149 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1967

2.2.1150 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1968

2.2.1151 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1969

2.2.1152 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1970

2.2.1153 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1971

2.2.1154 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1972

2.2.1155 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1973

2.2.1156 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(9/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2000

2.2.1157 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(7/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2001

2.2.1158 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(5/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2002

2.2.1159 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{ade+(cd^2+ae^2)x+cde x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2003

2.2.1160 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{ade+(cd^2+ae^2)x+cde x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2004

2.2.1161 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(ade+(cd^2+ae^2)x+cde x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2005

2.2.1162 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(ade+(cd^2+ae^2)x+cde x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2006

2.2.1163 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(ade+(cd^2+ae^2)x+cde x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(5/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2007

2.2.1164 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2}(ade+(cd^2+ae^2)x+cde x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(7/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2008

2.2.1165 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{13/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(13/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2009

2.2.1166 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{11/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(11/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2010

2.2.1167 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(ade+(cd^2+ae^2)x+cde x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(9/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2011

2.2.1168 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(ade+(cd^2+ae^2)x+cde x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(7/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2012

2.2.1169 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(ade+(cd^2+ae^2)x+cde x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(5/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2013

2.2.1170 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(ade+(cd^2+ae^2)x+cde x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2014

2.2.1171 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2015

2.2.1172 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex} (ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2016

2.2.1173 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2} (ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 2017

2.2.1174 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{15/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^(15/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 2018

2.2.1175 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{13/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(13/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2019

2.2.1176 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{11/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(11/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2020

2.2.1177 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(9/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2021

2.2.1178 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(7/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2022

2.2.1179 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(5/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2023

2.2.1180 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2024

2.2.1181 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(ade + (cd^2 + ae^2)x + cdex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2025

2.2.1182 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex} (ade + (cd^2 + ae^2)x + cdex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2026

2.2.1183 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2182

2.2.1184 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2183

2.2.1185 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2184

2.2.1186 Maxima [F(-2)]

Exception generated.

$$\int \frac{d+ex}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2185

2.2.1187 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2186

2.2.1188 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2187

2.2.1189 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2188

2.2.1190 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2189

2.2.1191 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^5}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^5/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2190

2.2.1192 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^4/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2191

2.2.1193 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2192

2.2.1194 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2193

2.2.1195 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2194

2.2.1196 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2195

2.2.1197 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2196

2.2.1198 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2197

2.2.1199 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2198

2.2.1200 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2199

2.2.1201 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^6/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 2200

2.2.1202 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^5}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^5/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 2201

2.2.1203 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2202

2.2.1204 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^3/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2203

2.2.1205 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2204

2.2.1206 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2205

2.2.1207 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2206

2.2.1208 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2207

2.2.1209 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2208

2.2.1210 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2209

2.2.1211 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 2210

2.2.1212 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 2211

2.2.1213 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^6/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2212

2.2.1214 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2213

2.2.1215 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(a+bx+cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^4/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2214

2.2.1216 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(a+bx+cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^3/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2215

2.2.1217 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^2/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2216

2.2.1218 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2217

2.2.1219 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2218

2.2.1220 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2219

2.2.1221 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2220

2.2.1222 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^5}{(a + bx + cx^2)^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^5/(c*x^2+b*x+a)^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2221

2.2.1223 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4}{(a + bx + cx^2)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4/(c*x^2+b*x+a)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2222

2.2.1224 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(a + bx + cx^2)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3/(c*x^2+b*x+a)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2223

2.2.1225 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2/(c*x^2+b*x+a)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2224

2.2.1226 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/(c*x^2+b*x+a)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2225

2.2.1227 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2226

2.2.1228 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x+a)^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2227

2.2.1229 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (a+bx+cx^2)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2228

2.2.1230 Maxima [F(-2)]

Exception generated.

$$\int \frac{2\left(\left(\frac{a}{b}\right)^{\frac{1}{n}} - x \cos\left(\frac{(-1+2k)\pi}{n}\right)\right)}{\left(\frac{a}{b}\right)^{2/n} + x^2 - 2\left(\frac{a}{b}\right)^{\frac{1}{n}} x \cos\left(\frac{(-1+2k)\pi}{n}\right)} dx = \text{Exception raised: ValueError}$$

[In] integrate(2*((a/b)^(1/n)-x*cos((-1+2*k)*pi/n))/((a/b)^(2/n)+x^2-2*(a/b)^(1/n)*x*cos((-1+2*k)*pi/n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1>0)', see 'assume?' for more details)Is 1

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2235

2.2.1231 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^{3/2}(a+bx+cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x^(3/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2331

2.2.1232 Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^3 \sqrt{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^3*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2333

2.2.1233 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^2*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2334

2.2.1234 Maxima [F(-2)]

Exception generated.

$$\int (d + ex) \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2335

2.2.1235 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2336

2.2.1236 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2337

2.2.1237 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2338

2.2.1238 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2339

2.2.1239 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2340

2.2.1240 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2341

2.2.1241 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{(d+ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2342

2.2.1242 Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^3 (a+bx+cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2343

2.2.1243 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^2*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2344

2.2.1244 Maxima [F(-2)]

Exception generated.

$$\int (d + ex) (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2345

2.2.1245 Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2346

2.2.1246 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2347

2.2.1247 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2348

2.2.1248 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2349

2.2.1249 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2350

2.2.1250 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2351

2.2.1251 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2352

2.2.1252 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2353

2.2.1253 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2354

2.2.1254 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2355

2.2.1255 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^2*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2356

2.2.1256 Maxima [F(-2)]

Exception generated.

$$\int (d + ex) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2357

2.2.1257 Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2358

2.2.1258 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2359

2.2.1259 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2360

2.2.1260 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2361

2.2.1261 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2362

2.2.1262 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2363

2.2.1263 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^6/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2371

2.2.1264 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2372

2.2.1265 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2373

2.2.1266 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2374

2.2.1267 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2375

2.2.1268 Maxima [F(-2)]

Exception generated.

$$\int \frac{d+ex}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2376

2.2.1269 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 2377

2.2.1270 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 33

Integral number in file 2378

2.2.1271 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2379

2.2.1272 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2380

2.2.1273 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2381

2.2.1274 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more deta

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2382

2.2.1275 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2383

2.2.1276 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2384

2.2.1277 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2385

2.2.1278 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2386

2.2.1279 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2387

2.2.1280 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2388

2.2.1281 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2389

2.2.1282 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 (a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2390

2.2.1283 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^5/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2391

2.2.1284 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2392

2.2.1285 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2393

2.2.1286 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2394

2.2.1287 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2395

2.2.1288 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2396

2.2.1289 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2397

2.2.1290 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2398

2.2.1291 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2399

2.2.1292 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{\frac{b^2}{4c}+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(2/(e*x+d)/(b^2/c+4*b*x+4*c*x^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2407

2.2.1293 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(\frac{be}{2c} + ex\right) \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(1/2*b*e/c+e*x)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2408

2.2.1294 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex) \sqrt{\frac{-cd^2 + bde}{e^2} + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/((b*d*e-c*d^2)/e^2+b*x+c*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2409

2.2.1295 Maxima [F(-2)]

Exception generated.

$$\int \left(\frac{1}{x} - \frac{1}{x\sqrt{1+bx+cx^2}} \right) dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x-1/x/(c*x^2+b*x+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c-b^2>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2439

2.2.1296 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 881

2.2.1297 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 882

2.2.1298 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 883

2.2.1299 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 884

2.2.1300 Maxima [F(-2)]

Exception generated.

$$\int \frac{d+ex}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 885

2.2.1301 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/x/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 886

2.2.1302 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^2(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/x^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 887

2.2.1303 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^3(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/x^3/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 888

2.2.1304 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^4(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/x^4/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 889

2.2.1305 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(d+ex)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^4*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 890

2.2.1306 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 891

2.2.1307 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 892

2.2.1308 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 893

2.2.1309 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 894

2.2.1310 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)/x/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 895

2.2.1311 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/x^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 896

2.2.1312 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/x^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 897

2.2.1313 Maxima [F(-2)]

Exception generated.

$$\int x^4(A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4*(B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 910

2.2.1314 Maxima [F(-2)]

Exception generated.

$$\int x^3(A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 911

2.2.1315 Maxima [F(-2)]

Exception generated.

$$\int x^2(A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 912

2.2.1316 Maxima [F(-2)]

Exception generated.

$$\int x(A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 913

2.2.1317 Maxima [F(-2)]

Exception generated.

$$\int (A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt`

Test file number 34

Integral number in file 914

2.2.1318 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt`

Test file number 34

Integral number in file 915

2.2.1319 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 916

2.2.1320 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 917

2.2.1321 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 918

2.2.1322 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 919

2.2.1323 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 920

2.2.1324 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 921

2.2.1325 Maxima [F(-2)]

Exception generated.

$$\int x^4(A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 922

2.2.1326 Maxima [F(-2)]

Exception generated.

$$\int x^3(A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 923

2.2.1327 Maxima [F(-2)]

Exception generated.

$$\int x^2(A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 924

2.2.1328 Maxima [F(-2)]

Exception generated.

$$\int x(A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 925

2.2.1329 Maxima [F(-2)]

Exception generated.

$$\int (A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 926

2.2.1330 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 927

2.2.1331 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 928

2.2.1332 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 929

2.2.1333 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 930

2.2.1334 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 931

2.2.1335 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 932

2.2.1336 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 933

2.2.1337 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 934

2.2.1338 Maxima [F(-2)]

Exception generated.

$$\int x^4(A + Bx)(a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 935

2.2.1339 Maxima [F(-2)]

Exception generated.

$$\int x^3(A + Bx)(a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 936

2.2.1340 Maxima [F(-2)]

Exception generated.

$$\int x^2(A + Bx)(a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 937

2.2.1341 Maxima [F(-2)]

Exception generated.

$$\int x(A + Bx)(a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 938

2.2.1342 Maxima [F(-2)]

Exception generated.

$$\int (A + Bx)(a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 939

2.2.1343 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 940

2.2.1344 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 941

2.2.1345 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 942

2.2.1346 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 943

2.2.1347 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 944

2.2.1348 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 945

2.2.1349 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 946

2.2.1350 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 947

2.2.1351 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 948

2.2.1352 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 949

2.2.1353 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(A+Bx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 950

2.2.1354 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A+Bx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 951

2.2.1355 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A+Bx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 952

2.2.1356 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A+Bx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 953

2.2.1357 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 954

2.2.1358 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 955

2.2.1359 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 956

2.2.1360 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 957

2.2.1361 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 958

2.2.1362 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^5 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x^5/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 959

2.2.1363 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^6 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/x^6/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt`

Test file number 34

Integral number in file 960

2.2.1364 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(A + Bx)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4*(B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt`

Test file number 34

Integral number in file 961

2.2.1365 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A+Bx)}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 962

2.2.1366 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A+Bx)}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 963

2.2.1367 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 964

2.2.1368 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 965

2.2.1369 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 966

2.2.1370 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^2(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 967

2.2.1371 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^3(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 968

2.2.1372 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^4(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 969

2.2.1373 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(A+Bx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 970

2.2.1374 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A+Bx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 971

2.2.1375 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A+Bx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt`

Test file number 34

Integral number in file 972

2.2.1376 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A+Bx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt`

Test file number 34

Integral number in file 973

2.2.1377 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 974

2.2.1378 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/x/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 975

2.2.1379 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^2 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/x^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 976

2.2.1380 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^3 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/x^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 977

2.2.1381 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 978

2.2.1382 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)/(c*x^2+b*x+a)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 979

2.2.1383 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^{3/2}(a + bx + cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((B*x+A)/x^(3/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1028

2.2.1384 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1166

2.2.1385 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1167

2.2.1386 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1168

2.2.1387 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1169

2.2.1388 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1170

2.2.1389 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1171

2.2.1390 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1175

2.2.1391 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1176

2.2.1392 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1177

2.2.1393 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1178

2.2.1394 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1179

2.2.1395 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1180

2.2.1396 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1181

2.2.1397 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^8,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1182

2.2.1398 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1186

2.2.1399 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1187

2.2.1400 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1188

2.2.1401 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1189

2.2.1402 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1190

2.2.1403 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1195

2.2.1404 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2\sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1196

2.2.1405 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 \sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^3/(c*x^2+b*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1197

2.2.1406 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^4 \sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^4/(c*x^2+b*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1198

2.2.1407 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1203

2.2.1408 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1204

2.2.1409 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 (bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^3/(c*x^2+b*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1205

2.2.1410 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex) (bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)/(c*x^2+b*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1211

2.2.1411 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1212

2.2.1412 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{bx + cx^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(7/2)/(c*x^2+b*x),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1229

2.2.1413 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(5/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1230

2.2.1414 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(3/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1231

2.2.1415 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^(1/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1232

2.2.1416 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^(1/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1233

2.2.1417 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(3/2)/(c*x^2+b*x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1234

2.2.1418 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(5/2)/(c*x^2+b*x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1235

2.2.1419 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^(7/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1236

2.2.1420 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{9/2} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^(9/2)/(c*x^2+b*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1237

2.2.1421 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{9/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(9/2)/(c*x^2+b*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1238

2.2.1422 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(7/2)/(c*x^2+b*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1239

2.2.1423 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(5/2)/(c*x^2+b*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1240

2.2.1424 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)/(c*x^2+b*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1241

2.2.1425 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(1/2)/(c*x^2+b*x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1242

2.2.1426 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(1/2)/(c*x^2+b*x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1243

2.2.1427 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^(3/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1244

2.2.1428 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^(5/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1245

2.2.1429 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(7/2)/(c*x^2+b*x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1246

2.2.1430 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{9/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(9/2)/(c*x^2+b*x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1247

2.2.1431 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(7/2)/(c*x^2+b*x)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1248

2.2.1432 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(5/2)/(c*x^2+b*x)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1249

2.2.1433 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)/(c*x^2+b*x)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1250

2.2.1434 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(1/2)/(c*x^2+b*x)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1251

2.2.1435 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(1/2)/(c*x^2+b*x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1252

2.2.1436 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(3/2)/(c*x^2+b*x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1253

2.2.1437 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(5/2)/(c*x^2+b*x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1254

2.2.1438 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (1 - x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(-x^2+1)/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d-4*e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1465

2.2.1439 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1524

2.2.1440 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1525

2.2.1441 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1526

2.2.1442 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1527

2.2.1443 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1529

2.2.1444 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1530

2.2.1445 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1531

2.2.1446 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1532

2.2.1447 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1533

2.2.1448 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1534

2.2.1449 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1535

2.2.1450 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1537

2.2.1451 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt`

Test file number 34

Integral number in file 1538

2.2.1452 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^5}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(e*x+d)^5/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt`

Test file number 34

Integral number in file 1539

2.2.1453 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1540

2.2.1454 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1541

2.2.1455 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1542

2.2.1456 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1543

2.2.1457 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1545

2.2.1458 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^4 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^4*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1546

2.2.1459 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^3 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^3*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1547

2.2.1460 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^2 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^2*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1548

2.2.1461 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(e*x+d)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1549

2.2.1462 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1551

2.2.1463 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1552

2.2.1464 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1553

2.2.1465 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1554

2.2.1466 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1555

2.2.1467 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt
```

Test file number 34

Integral number in file 1556

2.2.1468 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^3 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^3*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt
```

Test file number 34

Integral number in file 1557

2.2.1469 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^2 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^2*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1558

2.2.1470 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex) (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1559

2.2.1471 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1561

2.2.1472 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1562

2.2.1473 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1563

2.2.1474 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1564

2.2.1475 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^3 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^3*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1565

2.2.1476 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^2 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^2*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1566

2.2.1477 Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(e*x+d)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1567

2.2.1478 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx) (a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1569

2.2.1479 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1570

2.2.1480 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1571

2.2.1481 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1572

2.2.1482 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1573

2.2.1483 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1574

2.2.1484 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1575

2.2.1485 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1577

2.2.1486 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1578

2.2.1487 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1579

2.2.1488 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)/(e*x+d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1580

2.2.1489 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1581

2.2.1490 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1582

2.2.1491 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1583

2.2.1492 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1584

2.2.1493 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt`

Test file number 34

Integral number in file 1586

2.2.1494 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt`

Test file number 34

Integral number in file 1587

2.2.1495 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1588

2.2.1496 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1589

2.2.1497 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1590

2.2.1498 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1591

2.2.1499 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assum
e?' for
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1593

2.2.1500 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1594

2.2.1501 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1713

2.2.1502 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1714

2.2.1503 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1715

2.2.1504 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1716

2.2.1505 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1717

2.2.1506 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1718

2.2.1507 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^7,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1719

2.2.1508 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1726

2.2.1509 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1727

2.2.1510 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1728

2.2.1511 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1729

2.2.1512 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1730

2.2.1513 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1731

2.2.1514 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1732

2.2.1515 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1733

2.2.1516 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1734

2.2.1517 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1735

2.2.1518 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^11,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1736

2.2.1519 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^12,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1737

2.2.1520 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1745

2.2.1521 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1746

2.2.1522 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1747

2.2.1523 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1748

2.2.1524 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1749

2.2.1525 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1750

2.2.1526 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1751

2.2.1527 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1752

2.2.1528 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1753

2.2.1529 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1754

2.2.1530 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^11,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1755

2.2.1531 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^12,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1756

2.2.1532 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{13}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^13,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1757

2.2.1533 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{14}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^14,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1758

2.2.1534 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)/((b*x+a)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1763

2.2.1535 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^2/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1764

2.2.1536 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^3/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1765

2.2.1537 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^4 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^4/((b*x+a)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1766

2.2.1538 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1772

2.2.1539 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1773

2.2.1540 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1774

2.2.1541 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1781

2.2.1542 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2(a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1782

2.2.1543 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 (a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1783

2.2.1544 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1808

2.2.1545 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{5/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1809

2.2.1546 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{3/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1810

2.2.1547 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1811

2.2.1548 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex}(a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(b^2*x^2+2*a*b*x+a^2)/(e*x+d)^(1/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1812

2.2.1549 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1813

2.2.1550 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1815

2.2.1551 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{9/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1816

2.2.1552 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1817

2.2.1553 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{5/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1818

2.2.1554 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{3/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1819

2.2.1555 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1820

2.2.1556 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b^2*x^2+2*a*b*x+a^2)^2/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1821

2.2.1557 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1822

2.2.1558 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1823

2.2.1559 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1824

2.2.1560 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{11/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(11/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1825

2.2.1561 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{9/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1826

2.2.1562 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{7/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1827

2.2.1563 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{5/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1828

2.2.1564 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{3/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1829

2.2.1565 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1830

2.2.1566 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(b^2*x^2+2*a*b*x+a^2)^3/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1831

2.2.1567 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1832

2.2.1568 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1833

2.2.1569 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1834

2.2.1570 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1960

2.2.1571 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1961

2.2.1572 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1962

2.2.1573 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1963

2.2.1574 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1964

2.2.1575 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1965

2.2.1576 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^7,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1966

2.2.1577 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1967

2.2.1578 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1976

2.2.1579 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1977

2.2.1580 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1978

2.2.1581 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1979

2.2.1582 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1980

2.2.1583 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1981

2.2.1584 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1982

2.2.1585 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1983

2.2.1586 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1984

2.2.1587 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1985

2.2.1588 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^11,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1986

2.2.1589 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^12,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1987

2.2.1590 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1998

2.2.1591 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1999

2.2.1592 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2000

2.2.1593 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2001

2.2.1594 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2002

2.2.1595 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2003

2.2.1596 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2004

2.2.1597 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2005

2.2.1598 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2006

2.2.1599 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2007

2.2.1600 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^11,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2008

2.2.1601 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^12,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2009

2.2.1602 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{13}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^13,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2010

2.2.1603 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{14}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^14,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2011

2.2.1604 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{15}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^15,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2012

2.2.1605 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{16}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^16,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2013

2.2.1606 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{17}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^17,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2014

2.2.1607 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(e*x+d)/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2020

2.2.1608 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^2\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(e*x+d)^2/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2021

2.2.1609 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^3 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(e*x+d)^3/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2022

2.2.1610 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^4 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a)/(e*x+d)^4/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2023

2.2.1611 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^5 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^5/((b*x+a)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2024

2.2.1612 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex) (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2030

2.2.1613 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^2 (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2031

2.2.1614 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^3 (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2032

2.2.1615 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)(a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see 'assume?' for more detail)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2039

2.2.1616 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^2(a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2040

2.2.1617 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^3 (a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2041

2.2.1618 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{7/2}}{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2066

2.2.1619 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{5/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2067

2.2.1620 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{3/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2068

2.2.1621 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{d + ex}}{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2069

2.2.1622 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{\sqrt{d + ex}(a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)/(b^2*x^2+2*a*b*x+a^2)/(e*x+d)^(1/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2070

2.2.1623 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2071

2.2.1624 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2072

2.2.1625 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2073

2.2.1626 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{9/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a)*(e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2074

2.2.1627 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{7/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2075

2.2.1628 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{5/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2076

2.2.1629 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{3/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2077

2.2.1630 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{d + ex}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2078

2.2.1631 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{\sqrt{d + ex} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(b^2*x^2+2*a*b*x+a^2)^2/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2079

2.2.1632 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2080

2.2.1633 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2081

2.2.1634 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2082

2.2.1635 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{11/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(11/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2083

2.2.1636 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{9/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2084

2.2.1637 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{7/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2085

2.2.1638 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{5/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2086

2.2.1639 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{3/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2087

2.2.1640 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{d + ex}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2088

2.2.1641 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{\sqrt{d + ex} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(b^2*x^2+2*a*b*x+a^2)^3/(e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2089

2.2.1642 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2090

2.2.1643 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2091

2.2.1644 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) \sqrt{cd^2 - bde - be^2x - ce^2x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2172

2.2.1645 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2173

2.2.1646 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2174

2.2.1647 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2175

2.2.1648 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2176

2.2.1649 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2177

2.2.1650 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2178

2.2.1651 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2179

2.2.1652 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2180

2.2.1653 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2181

2.2.1654 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2182

2.2.1655 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorith
m="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2183

2.2.1656 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorith
m="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2184

2.2.1657 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2185

2.2.1658 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2186

2.2.1659 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2187

2.2.1660 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2188

2.2.1661 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2189

2.2.1662 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2190

2.2.1663 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2191

2.2.1664 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2192

2.2.1665 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2193

2.2.1666 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2194

2.2.1667 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorith
m="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2195

2.2.1668 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^2*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorith
m="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2196

2.2.1669 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2197

2.2.1670 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2198

2.2.1671 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2200

2.2.1672 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2201

2.2.1673 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2202

2.2.1674 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2203

2.2.1675 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2204

2.2.1676 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2205

2.2.1677 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2206

2.2.1678 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2207

2.2.1679 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^11,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2208

2.2.1680 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3(f + gx)}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2209

2.2.1681 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2210

2.2.1682 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2211

2.2.1683 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2212

2.2.1684 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2213

2.2.1685 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2214

2.2.1686 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^4 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)^4/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2215

2.2.1687 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^5 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)^5/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2216

2.2.1688 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3(f + gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2217

2.2.1689 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2218

2.2.1690 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2219

2.2.1691 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2220

2.2.1692 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2221

2.2.1693 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2222

2.2.1694 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^5 (f + gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^5*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2223

2.2.1695 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2224

2.2.1696 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2225

2.2.1697 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2226

2.2.1698 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2227

2.2.1699 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2228

2.2.1700 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2229

2.2.1701 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x+f)/(e*x+d)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2230

2.2.1702 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^3}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2364

2.2.1703 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2365

2.2.1704 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2366

2.2.1705 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2367

2.2.1706 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2368

2.2.1707 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2369

2.2.1708 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2370

2.2.1709 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4(f+gx)}{(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4*(g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2371

2.2.1710 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)}{(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*(g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2372

2.2.1711 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2373

2.2.1712 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2374

2.2.1713 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2375

2.2.1714 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2376

2.2.1715 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2377

2.2.1716 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2465

2.2.1717 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^2}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2466

2.2.1718 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2467

2.2.1719 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2468

2.2.1720 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2469

2.2.1721 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2470

2.2.1722 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2471

2.2.1723 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(e*x+d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2472

2.2.1724 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^3}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2473

2.2.1725 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^2}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2474

2.2.1726 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2475

2.2.1727 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2476

2.2.1728 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2477

2.2.1729 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2478

2.2.1730 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2479

2.2.1731 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^4}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2480

2.2.1732 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^3}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2481

2.2.1733 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^2}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2482

2.2.1734 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2483

2.2.1735 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2484

2.2.1736 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2485

2.2.1737 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2486

2.2.1738 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^6}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^6/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more deta

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2487

2.2.1739 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^5}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^5/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2488

2.2.1740 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^4}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)^4/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2489

2.2.1741 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^3}{(a+bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^3/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2490

2.2.1742 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^2}{(a+bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)*(e*x+d)^2/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2491

2.2.1743 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)*(e*x+d)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2492

2.2.1744 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 2493

2.2.1745 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2494

2.2.1746 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{a + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4*(c*x^2+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 316

2.2.1747 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(c*x^2+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 317

2.2.1748 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(c*x^2+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 318

2.2.1749 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+cx^2}}{d+ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(c*x^2+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 319

2.2.1750 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{d+ex} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 320

2.2.1751 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 326

2.2.1752 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 327

2.2.1753 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 328

2.2.1754 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 329

2.2.1755 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)(a+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4/(e*x+d)/(c*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 334

2.2.1756 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)(a+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(e*x+d)/(c*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 335

2.2.1757 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d+ex)^2\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 342

2.2.1758 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)^2\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 343

2.2.1759 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)^2\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 344

2.2.1760 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)^2\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 345

2.2.1761 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)^2\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 346

2.2.1762 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2\sqrt{a+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 347

2.2.1763 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 437

2.2.1764 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 438

2.2.1765 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^-m-f+g_x^-n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 439

2.2.1766 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^-m-f+g_x^-n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 440

2.2.1767 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{x(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 441

2.2.1768 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 446

2.2.1769 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 447

2.2.1770 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 448

2.2.1771 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 449

2.2.1772 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{x(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 450

2.2.1773 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 457

2.2.1774 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 458

2.2.1775 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 459

2.2.1776 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 460

2.2.1777 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 461

2.2.1778 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex)\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 470

2.2.1779 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 471

2.2.1780 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 472

2.2.1781 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 473

2.2.1782 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 477

2.2.1783 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^4/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm=
"maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 478

2.2.1784 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm=
"maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 479

2.2.1785 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 480

2.2.1786 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 481

2.2.1787 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 482

2.2.1788 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 487

2.2.1789 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see 'assume?' for more)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 488

2.2.1790 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(f+gx)(d^2-e^2x^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3/(g*x+f)/(-e^2*x^2+d^2)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 585

2.2.1791 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(f+gx)^2(d^2-e^2x^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3/(g*x+f)^2/(-e^2*x^2+d^2)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 586

2.2.1792 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(f+gx)^3(d^2-e^2x^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x+d)^3/(g*x+f)^3/(-e^2*x^2+d^2)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 587

2.2.1793 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^{3/2}(f + gx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)/(e*x+d)^(3/2)/(g*x+f),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 588

2.2.1794 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)/(e*x+d)/(g*x+f)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 593

2.2.1795 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^2 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)/(e*x+d)^2/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 594

2.2.1796 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^3 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)/(e*x+d)^3/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 595

2.2.1797 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)/(e*x+d)/(g*x+f)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 600

2.2.1798 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^2(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)/(e*x+d)^2/(g*x+f)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 601

2.2.1799 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^3(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)/(e*x+d)^3/(g*x+f)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 602

2.2.1800 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{\sqrt{d + ex}\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)/(e*x+d)^(1/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 603

2.2.1801 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1+ax)^2}{(c+dx)\sqrt{1-a^2x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*x+1)^2/(d*x+c)/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a*c>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 621

2.2.1802 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 817

2.2.1803 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x+d)/(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 818

2.2.1804 Maxima [F(-2)]

Exception generated.

$$\int \frac{a+bx+cx^2}{(d+ex)\sqrt{f+gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 823

2.2.1805 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^2 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^2/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 824

2.2.1806 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^3 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^3/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 825

2.2.1807 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)/(e*x+d)/(g*x+f)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 830

2.2.1808 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^2(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)/(e*x+d)^2/(g*x+f)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 831

2.2.1809 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^3(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^3/(g*x+f)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 832

2.2.1810 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{\sqrt{d + ex}\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^(1/2)/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 834

2.2.1811 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{3/2} (a + bx + cx^2)}{\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)*(c*x^2+b*x+a)/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 835

2.2.1812 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex}(a + bx + cx^2)}{\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)*(c*x^2+b*x+a)/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 836

2.2.1813 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{\sqrt{d + ex}\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^(1/2)/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 837

2.2.1814 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{3/2}\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^(3/2)/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 838

2.2.1815 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{5/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)/(e*x+d)^(5/2)/(g*x+f)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 839

2.2.1816 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{7/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)/(e*x+d)^(7/2)/(g*x+f)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 840

2.2.1817 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{9/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^(9/2)/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 841

2.2.1818 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex}(a + bx + cx^2)}{(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)*(c*x^2+b*x+a)/(f*x+e)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 842

2.2.1819 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}(15d^2+20dex+8e^2x^2)}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)*(8*e^2*x^2+20*d*e*x+15*d^2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 843

2.2.1820 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}(15d^2+20dex+8e^2x^2)}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)*(8*e^2*x^2+20*d*e*x+15*d^2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 844

2.2.1821 Maxima [F(-2)]

Exception generated.

$$\int \frac{15d^2 + 20dex + 8e^2x^2}{\sqrt{a + bx}\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((8*e^2*x^2+20*d*e*x+15*d^2)/(e*x+d)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 845

2.2.1822 Maxima [F(-2)]

Exception generated.

$$\int \frac{15d^2 + 20dex + 8e^2x^2}{\sqrt{a + bx}(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((8*e^2*x^2+20*d*e*x+15*d^2)/(e*x+d)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 846

2.2.1823 Maxima [F(-2)]

Exception generated.

$$\int \frac{15d^2 + 20dex + 8e^2x^2}{\sqrt{a + bx}(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((8*e^2*x^2+20*d*e*x+15*d^2)/(e*x+d)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 847

2.2.1824 Maxima [F(-2)]

Exception generated.

$$\int \frac{15d^2 + 20dex + 8e^2x^2}{\sqrt{a + bx}(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((8*e^2*x^2+20*d*e*x+15*d^2)/(e*x+d)^(7/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 848

2.2.1825 Maxima [F(-2)]

Exception generated.

$$\int \frac{15d^2 + 20dex + 8e^2x^2}{\sqrt{a + bx}(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((8*e^2*x^2+20*d*e*x+15*d^2)/(e*x+d)^(9/2)/(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 849

2.2.1826 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^3*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 854

2.2.1827 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^2*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 855

2.2.1828 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 856

2.2.1829 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 857

2.2.1830 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)/(g*x+f),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(d*g-e*f>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 858

2.2.1831 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x+f)^3*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m+g_x-ⁿ+a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 862

2.2.1832 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x+f)^2*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m+g_x-ⁿ+a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 863

2.2.1833 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 864

2.2.1834 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 865

2.2.1835 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 866

2.2.1836 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 869

2.2.1837 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^4}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^4/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 870

2.2.1838 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 871

2.2.1839 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 872

2.2.1840 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 873

2.2.1841 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 874

2.2.1842 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^4}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((g*x+f)^4/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 878

2.2.1843 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 879

2.2.1844 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assume?' for

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 880

2.2.1845 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see 'assum
e?' for
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 881

2.2.1846 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 882

2.2.1847 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + \frac{bfx^2}{e}}{\sqrt{d + ex + fx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*x+b*f*x^2/e)/(f*x^2+e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 36

Integral number in file 1

2.2.1848 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d + ex + fx^2} \left(a + bx + \frac{bfx^2}{e} \right)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*x+b*f*x^2/e)/(f*x^2+e*x+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(4*a*f-b*e)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 36

Integral number in file 2

2.2.1849 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(c*x^2+b*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*c*d-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 3

2.2.1850 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx+cx^2}(d+ex+fx^2)^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 100

2.2.1851 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2}(d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 101

2.2.1852 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 102

2.2.1853 Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} (d + ex + fx^2)^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 104

2.2.1854 Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 105

2.2.1855 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt`

Test file number 36

Integral number in file 106

2.2.1856 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^2+e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt`

Test file number 36

Integral number in file 109

2.2.1857 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 36

Integral number in file 110

2.2.1858 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 36

Integral number in file 111

2.2.1859 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt`

Test file number 36

Integral number in file 112

2.2.1860 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex+fx^2)^3}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^2+e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt`

Test file number 36

Integral number in file 114

2.2.1861 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 115

2.2.1862 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 116

2.2.1863 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 117

2.2.1864 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^3}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^2+e*x+d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 118

2.2.1865 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 119

2.2.1866 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 120

2.2.1867 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)(d + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 4

2.2.1868 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^2 (d + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(c*x^2+b*x+a)^2/(f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 5

2.2.1869 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 6

2.2.1870 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx + cx^2}(d - fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 7

2.2.1871 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 8

2.2.1872 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{5/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x+A)/(c*x^2+b*x+a)^(5/2)/(-f*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 9

2.2.1873 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 13

2.2.1874 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^2}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^2/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 14

2.2.1875 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)(d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 15

2.2.1876 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^2 (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)/(c*x^2+b*x+a)^2/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 16

2.2.1877 Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx + cx^2)(ad + bdx + cdx^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)/(c*x^2+b*x+a)/(c*d*x^2+b*d*x+a*d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 17

2.2.1878 Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx + cx^2)^2(ad + bdx + cdx^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)/(c*x^2+b*x+a)^2/(c*d*x^2+b*d*x+a*d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 18

2.2.1879 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 19

2.2.1880 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 20

2.2.1881 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)\sqrt{d + ex + fx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+e*x+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x-^m-a+b_x+c_x²-^p-d+e_x+f_x²-^q.txt

Test file number 37

Integral number in file 21

2.2.1882 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)\sqrt{d + fx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x-^m-a+b_x+c_x²-^p-d+e_x+f_x²-^q.txt

Test file number 37

Integral number in file 23

2.2.1883 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)\sqrt{a + bx + cx^2}}{(ad + bdx + cd^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((h*x+g)*(c*x^2+b*x+a)^(1/2)/(c*d*x^2+b*d*x+a*d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 39

2.2.1884 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{a + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 52

2.2.1885 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 53

2.2.1886 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 54

2.2.1887 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt`

Test file number 37

Integral number in file 58

2.2.1888 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt`

Test file number 37

Integral number in file 59

2.2.1889 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 60

2.2.1890 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a + cx^2}(d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(f*x^2+e*x+d)/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 64

2.2.1891 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(f*x^2+e*x+d)/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 65

2.2.1892 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(f*x^2+e*x+d)/(c*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 66

2.2.1893 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(f*x^2+e*x+d)/(c*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 67

2.2.1894 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+cx^2)^{3/2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 71

2.2.1895 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 72

2.2.1896 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 73

2.2.1897 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 74

2.2.1898 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see 'assume?')

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 77

2.2.1899 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 78

2.2.1900 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 79

2.2.1901 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 80

2.2.1902 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 84

2.2.1903 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?')

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 85

2.2.1904 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?')

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 86

2.2.1905 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 87

2.2.1906 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{1 - x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(3/2)/(-x^2+1),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0))', see 'assume?' for more details

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 91

2.2.1907 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?')

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 94

2.2.1908 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?')

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 95

2.2.1909 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 96

2.2.1910 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 97

2.2.1911 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 98

2.2.1912 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a+bx+cx^2)^{3/2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 102

2.2.1913 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see 'assume?'

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt`

Test file number 37

Integral number in file 103

2.2.1914 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see 'assume?'

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt`

Test file number 37

Integral number in file 104

2.2.1915 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 105

2.2.1916 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0))', see 'assume?'

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 106

2.2.1917 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 109

2.2.1918 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 110

2.2.1919 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 111

2.2.1920 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 114

2.2.1921 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 115

2.2.1922 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 116

2.2.1923 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt`

Test file number 37

Integral number in file 117

2.2.1924 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx+cx^2)^{3/2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt`

Test file number 37

Integral number in file 121

2.2.1925 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 37

Integral number in file 122

2.2.1926 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 37

Integral number in file 123

2.2.1927 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 124

2.2.1928 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+A)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 38

Integral number in file 144

2.2.1929 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+A)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 145

2.2.1930 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+A)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 146

2.2.1931 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+A)/(c*x^2+b*x+a)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 38

Integral number in file 147

2.2.1932 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3 (f + gx + hx^2)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*(h*x^2+g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 38

Integral number in file 148

2.2.1933 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2 (f + gx + hx^2)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^2*(h*x^2+g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 149

2.2.1934 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx + hx^2)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)*(h*x^2+g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 150

2.2.1935 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((h*x^2+g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 151

2.2.1936 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((h*x^2+g*x+f)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 152

2.2.1937 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((h*x^2+g*x+f)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 153

2.2.1938 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((h*x^2+g*x+f)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 154

2.2.1939 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx+hx^2)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2*(h*x^2+g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 155

2.2.1940 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx+hx^2)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)*(h*x^2+g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 156

2.2.1941 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((h*x^2+g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 38

Integral number in file 157

2.2.1942 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((h*x^2+g*x+f)/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 38

Integral number in file 158

2.2.1943 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((h*x^2+g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 159

2.2.1944 Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{5/2} (A + Cx^2) dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)*(C*x^2+A),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 178

2.2.1945 Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} (A + Cx^2) dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(3/2)*(C*x^2+A),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 179

2.2.1946 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2} (A + Cx^2) dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)*(C*x^2+A),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 180

2.2.1947 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((C*x^2+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 38

Integral number in file 181

2.2.1948 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((C*x^2+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt`

Test file number 38

Integral number in file 182

2.2.1949 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 38

Integral number in file 183

2.2.1950 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+A)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 38

Integral number in file 184

2.2.1951 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((C*x^2+A)/(c*x^2+b*x+a)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 38

Integral number in file 185

2.2.1952 Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^3 \sqrt{a + bx + cx^2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

[In] integrate((h*x+g)^3*(f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 38

Integral number in file 186

2.2.1953 Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^2 \sqrt{a + bx + cx^2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^2*(f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 187

2.2.1954 Maxima [F(-2)]

Exception generated.

$$\int (g + hx) \sqrt{a + bx + cx^2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)*(f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 188

2.2.1955 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2}(d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt`

Test file number 38

Integral number in file 189

2.2.1956 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{g + hx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2)/(h*x+g),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*h-2*c*g>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt`

Test file number 38

Integral number in file 190

2.2.1957 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}(d+ex+fx^2)}{(g+hx)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2)/(h*x+g)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*h-2*c*g>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 191

2.2.1958 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}(d+ex+fx^2)}{(g+hx)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2)/(h*x+g)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 192

2.2.1959 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}(d+ex+fx^2)}{(g+hx)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2)/(h*x+g)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 193

2.2.1960 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}(d+ex+fx^2)}{(g+hx)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2)/(h*x+g)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 194

2.2.1961 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{(g + hx)^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2)/(h*x+g)^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 195

2.2.1962 Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^3 (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^3*(c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 196

2.2.1963 Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^2 (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^2*(c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 197

2.2.1964 Maxima [F(-2)]

Exception generated.

$$\int (g + hx) (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)*(c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 198

2.2.1965 Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more data

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 199

2.2.1966 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{g + hx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*h-2*c*g>0)', see 'assume?' for more data

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 200

2.2.1967 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*h-2*c*g>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 201

2.2.1968 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 202

2.2.1969 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^4,x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 203

2.2.1970 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^5,x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 204

2.2.1971 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^6,x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 205

2.2.1972 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^7} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^7,x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 206

2.2.1973 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^8} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^8,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 207

2.2.1974 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^3 (d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^3*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 226

2.2.1975 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2 (d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^2*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 227

2.2.1976 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx) (d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 228

2.2.1977 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 229

2.2.1978 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^2+e*x+d)/(h*x+g)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/h-(2*c*g)/h^2)^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 230

2.2.1979 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)/(h*x+g)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/h-(2*c*g)/h^2)^2>0)', see 'assume?' for
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 231

2.2.1980 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)/(h*x+g)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for more de
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 232

2.2.1981 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^3 (d + ex + fx^2)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^3*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 233

2.2.1982 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2 (d + ex + fx^2)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^2*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 234

2.2.1983 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)(d + ex + fx^2)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((h*x+g)*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 235

2.2.1984 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 236

2.2.1985 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)/(h*x+g)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((b/h-(2*c*g)/h^2)^2>0)', see 'assum
e?' for
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 237

2.2.1986 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^2 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)/(h*x+g)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((b/h-(2*c*g)/h^2)^2>0)', see 'assum
e?' for
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 238

2.2.1987 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^3 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)/(h*x+g)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 239

2.2.1988 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx) (-cg^2 + bgh + bh^2x + ch^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x^2+e*x+d)/(h*x+g)/(c*h^2*x^2+b*h^2*x+b*g*h-c*g^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*h-2*c*g>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 258

2.2.1989 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex + fx^2 + gx^3)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 280

2.2.1990 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex + fx^2 + gx^3)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 281

2.2.1991 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 38

Integral number in file 282

2.2.1992 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f*x^2+e*x+d)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 38

Integral number in file 283

2.2.1993 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x^3+f*x^2+e*x+d)/x^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 284

2.2.1994 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x^3+f*x^2+e*x+d)/x^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 285

2.2.1995 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x^3+f*x^2+e*x+d)/x^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 286

2.2.1996 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^5 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x^3+f*x^2+e*x+d)/x^5/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 287

2.2.1997 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^6 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x^3+f*x^2+e*x+d)/x^6/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 288

2.2.1998 Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2 + ix^3 + jx^4}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((j*x^4+i*x^3+h*x^2+g*x+f)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 365

2.2.1999 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3 + hx^4 + ix^5}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((i*x^5+h*x^4+g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 38

Integral number in file 372

2.2.2000 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3 + hx^4 + jx^5 + kx^6 + lx^7 + mx^8}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((m*x^8+l*x^7+k*x^6+j*x^5+h*x^4+g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 38

Integral number in file 373

2.2.2001 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-1 + a^2 + 2ax^2 + x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(x^4+2*a*x^2+a^2-1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1.0>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 9

2.2.2002 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 848

2.2.2003 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 849

2.2.2004 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 850

2.2.2005 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt`

Test file number 39

Integral number in file 851

2.2.2006 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt`

Test file number 39

Integral number in file 852

2.2.2007 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 853

2.2.2008 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^5/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 854

2.2.2009 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x^2+c_x^4-^p.txt

Test file number 39

Integral number in file 861

2.2.2010 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x^2+c_x^4-^p.txt

Test file number 39

Integral number in file 862

2.2.2011 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 863

2.2.2012 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 864

2.2.2013 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^2+cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 865

2.2.2014 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a+bx^2+cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x^3/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 866

2.2.2015 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹/(c*x⁴+b*x²+a)³,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b²>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x²+c_x⁴-^p.txt

Test file number 39

Integral number in file 873

2.2.2016 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁹/(c*x⁴+b*x²+a)³,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b²>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x²+c_x⁴-^p.txt

Test file number 39

Integral number in file 874

2.2.2017 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x^2+c_x^4-^p.txt

Test file number 39

Integral number in file 875

2.2.2018 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x^2+c_x^4-^p.txt

Test file number 39

Integral number in file 876

2.2.2019 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 877

2.2.2020 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 878

2.2.2021 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^2+cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 879

2.2.2022 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a+bx^2+cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 880

2.2.2023 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a - bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^4-b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 888

2.2.2024 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a - bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^4-b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 889

2.2.2025 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a - bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c*x^4-b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 890

2.2.2026 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a - bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x/(c*x^4-b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 891

2.2.2027 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a - bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(c*x^4-b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 892

2.2.2028 Maxima [F(-2)]

Exception generated.

$$\int x^7 \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7*(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 920

2.2.2029 Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁵*(c*x⁴+b*x²+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b²>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x²+c_x⁴-p.txt

Test file number 39

Integral number in file 921

2.2.2030 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(x³*(c*x⁴+b*x²+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b²>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x²+c_x⁴-p.txt

Test file number 39

Integral number in file 922

2.2.2031 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{a+bx^2+cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 923

2.2.2032 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2+cx^4}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^4+b*x^2+a)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 924

2.2.2033 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^4+b*x^2+a)^(1/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 925

2.2.2034 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^4+b*x^2+a)^(1/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 926

2.2.2035 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^4+b*x^2+a)^(1/2)/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 927

2.2.2036 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^9} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^4+b*x^2+a)^(1/2)/x^9,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 928

2.2.2037 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^{11}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^4+b*x^2+a)^(1/2)/x^11,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 929

2.2.2038 Maxima [F(-2)]

Exception generated.

$$\int x^7 (a + bx^2 + cx^4)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7*(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 936

2.2.2039 Maxima [F(-2)]

Exception generated.

$$\int x^5 (a + bx^2 + cx^4)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt`

Test file number 39

Integral number in file 937

2.2.2040 Maxima [F(-2)]

Exception generated.

$$\int x^3 (a + bx^2 + cx^4)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt`

Test file number 39

Integral number in file 938

2.2.2041 Maxima [F(-2)]

Exception generated.

$$\int x(a + bx^2 + cx^4)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 939

2.2.2042 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 940

2.2.2043 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 941

2.2.2044 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 942

2.2.2045 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x^7,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 943

2.2.2046 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^9} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x^9,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 944

2.2.2047 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^{11}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x^11,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 945

2.2.2048 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^{13}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x^13,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 946

2.2.2049 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 955

2.2.2050 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 39

Integral number in file 956

2.2.2051 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 957

2.2.2052 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 958

2.2.2053 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt`

Test file number 39

Integral number in file 959

2.2.2054 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt`

Test file number 39

Integral number in file 960

2.2.2055 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^5/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 961

2.2.2056 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^7 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^7/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 39

Integral number in file 962

2.2.2057 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^9/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 981

2.2.2058 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 982

2.2.2059 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 983

2.2.2060 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4^p.txt`

Test file number 39

Integral number in file 984

2.2.2061 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x^2+c_x^4-^p.txt`

Test file number 39

Integral number in file 985

2.2.2062 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x^2+c_x^4-^p.txt`

Test file number 39

Integral number in file 986

2.2.2063 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt`

Test file number 39

Integral number in file 987

2.2.2064 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^5/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x^m-a+b_x^2+c_x^4-p.txt`

Test file number 39

Integral number in file 988

2.2.2065 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{a^2 + (-1 + 2ab)x^2 + b^2x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x^2+a)/(a^2+(2*a*b-1)*x^2+b^2*x^4),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*b-0.25>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 38

2.2.2066 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+a)/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 124

2.2.2067 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^4+a)/(e*x^2+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 125

2.2.2068 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^4+a)/(e*x^2+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 126

2.2.2069 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+a)/(e*x^2+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 127

2.2.2070 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+a)^2/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 132

2.2.2071 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+a)^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 133

2.2.2072 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+a)^2/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 134

2.2.2073 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^4+a)^2/(e*x^2+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 135

2.2.2074 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^4+a)^2/(e*x^2+d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 136

2.2.2075 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 142

2.2.2076 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + cx^4)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x^2+d)^2/(c*x^4+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 143

2.2.2077 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 148

2.2.2078 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex^2)^2(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x^2+d)^2/(c*x^4+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 149

2.2.2079 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^4}{d^2 - e^2x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^4/(-e^2*x^4+d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 189

2.2.2080 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^3}{d^2 - e^2x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^3/(-e^2*x^4+d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 190

2.2.2081 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{d^2 - e^2x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^2/(-e^2*x^4+d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 191

2.2.2082 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{d^2 - e^2x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)/(-e^2*x^4+d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 192

2.2.2083 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(d^2 - e^2x^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x^2+d)/(-e^2*x^4+d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 193

2.2.2084 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2(d^2 - e^2x^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x^2+d)^2/(-e^2*x^4+d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 194

2.2.2085 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^3}{-cd^2 + bde + be^2x^2 + ce^2x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^3/(c*e^2*x^4+b*e^2*x^2+b*d*e-c*d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-c*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 215

2.2.2086 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{-cd^2 + bde + be^2x^2 + ce^2x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^2/(c*e^2*x^4+b*e^2*x^2+b*d*e-c*d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-c*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 216

2.2.2087 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{-cd^2 + bde + be^2x^2 + ce^2x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)/(c*e^2*x^4+b*e^2*x^2+b*d*e-c*d^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-c*d)>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 217

2.2.2088 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(-cd^2 + bde + be^2x^2 + ce^2x^4)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x^2+d)/(c*e^2*x^4+b*e^2*x^2+b*d*e-c*d^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-c*d)>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 218

2.2.2089 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (-cd^2 + bde + be^2x^2 + ce^2x^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*x^2+d)^2/(c*e^2*x^4+b*e^2*x^2+b*d*e-c*d^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-c*d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 219

2.2.2090 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 248

2.2.2091 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 249

2.2.2092 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 250

2.2.2093 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 251

2.2.2094 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)^2/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 256

2.2.2095 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^4+b*x^2+a)^2/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 257

2.2.2096 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^2}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^4+b*x^2+a)^2/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 258

2.2.2097 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^2}{(d + ex^2)^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^4+b*x^2+a)^2/(e*x^2+d)^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 259

2.2.2098 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^2}{(d + ex^2)^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*x^4+b*x^2+a)^2/(e*x^2+d)^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 260

2.2.2099 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 261

2.2.2100 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + x^2(b + cx^2)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+x^2*(c*x^2+b))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 262

2.2.2101 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 268

2.2.2102 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x^2+d)^2/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 269

2.2.2103 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 274

2.2.2104 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x^2+d)^2/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 275

2.2.2105 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{5/2} (a + bx^2 + cx^4) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(5/2)*(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 276

2.2.2106 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + bx^2 + cx^4) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 277

2.2.2107 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + bx^2 + cx^4) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(1/2)*(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 278

2.2.2108 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 279

2.2.2109 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 280

2.2.2110 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 281

2.2.2111 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)\sqrt{2 + 3x^2 + x^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x^2+d)/(x^4+3*x^2+2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 397

2.2.2112 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x-^m-d+e_x^2-^q-a+b_x^2+c_x^4-^p.txt

Test file number 41

Integral number in file 102

2.2.2113 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 103

2.2.2114 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 104

2.2.2115 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x^2+A)/x/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 105

2.2.2116 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^3(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x^2+A)/x^3/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 106

2.2.2117 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(A + Bx^2)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7*(B*x^2+A)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 112

2.2.2118 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(B*x^2+A)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 113

2.2.2119 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(B*x^2+A)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 114

2.2.2120 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(B*x^2+A)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 115

2.2.2121 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x^2+A)/x/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 116

2.2.2122 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^3(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x^2+A)/x^3/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 117

2.2.2123 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹*(B*x²+A)/(c*x⁴+b*x²+a)³,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b²>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^{m-d+e}-x^{2-q}-a+b_x²+c_x^{4-p}.txt

Test file number 41

Integral number in file 124

2.2.2124 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁹*(B*x²+A)/(c*x⁴+b*x²+a)³,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b²>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^{m-d+e}-x^{2-q}-a+b_x²+c_x^{4-p}.txt

Test file number 41

Integral number in file 125

2.2.2125 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 126

2.2.2126 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 127

2.2.2127 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 128

2.2.2128 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 129

2.2.2129 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x^2+A)/x/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 130

2.2.2130 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^3(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*x^2+A)/x^3/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 131

2.2.2131 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2)}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(B*x^2+A)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 169

2.2.2132 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2)}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(B*x^2+A)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 170

2.2.2133 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2)}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(B*x^2+A)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 171

2.2.2134 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x^2+A)/x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 172

2.2.2135 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^3 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x^2+A)/x^3/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 173

2.2.2136 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^5 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x^2+A)/x^5/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 174

2.2.2137 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^7 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((B*x^2+A)/x^7/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 175

2.2.2138 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 237

2.2.2139 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^6/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 238

2.2.2140 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 239

2.2.2141 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 240

2.2.2142 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 241

2.2.2143 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^2) (a + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x^2/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 242

2.2.2144 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^2) (a + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x^4/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 243

2.2.2145 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^8/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 252

2.2.2146 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^6/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 253

2.2.2147 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 254

2.2.2148 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 255

2.2.2149 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x-^m-d+e_x^2-^q-a+b_x^2+c_x^4-^p.txt

Test file number 41

Integral number in file 256

2.2.2150 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/x^2/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x-^m-d+e_x^2-^q-a+b_x^2+c_x^4-^p.txt

Test file number 41

Integral number in file 257

2.2.2151 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^2) (a + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^4/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 258

2.2.2152 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + bx^2 + cx^4)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^6*(c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 280

2.2.2153 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + bx^2 + cx^4)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 281

2.2.2154 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2 + cx^4)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 282

2.2.2155 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 283

2.2.2156 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^2(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 284

2.2.2157 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^4 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/x^4/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 285

2.2.2158 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^6 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/x^6/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 286

2.2.2159 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^8 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/x^8/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 287

2.2.2160 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + bx^2 + cx^4)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^6*(c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 288

2.2.2161 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + bx^2 + cx^4)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 289

2.2.2162 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2 + cx^4)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 290

2.2.2163 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 291

2.2.2164 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^2(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/x^2/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 292

2.2.2165 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^4 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/x^4/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 293

2.2.2166 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^6 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^4+b*x^2+a)/x^6/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 294

2.2.2167 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^9/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 295

2.2.2168 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 296

2.2.2169 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 297

2.2.2170 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 298

2.2.2171 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex^2)(a+bx^2+cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 299

2.2.2172 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex^2)(a+bx^2+cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 300

2.2.2173 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (d + ex^2) (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 301

2.2.2174 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^2) (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^5/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 302

2.2.2175 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 303

2.2.2176 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^6/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 304

2.2.2177 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 305

2.2.2178 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 306

2.2.2179 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 307

2.2.2180 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/x^2/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 308

2.2.2181 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^2) (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^4/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 309

2.2.2182 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 311

2.2.2183 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 312

2.2.2184 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 313

2.2.2185 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 322

2.2.2186 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 323

2.2.2187 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 324

2.2.2188 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(d + ex^2 + fx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more deta

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4-p.txt

Test file number 43

Integral number in file 47

2.2.2189 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(d + ex^2 + fx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 48

2.2.2190 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex^2 + fx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 49

2.2.2191 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^2 + fx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 50

2.2.2192 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^4+e*x^2+d)/x/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 51

2.2.2193 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^3(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^4+e*x^2+d)/x^3/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 52

2.2.2194 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^5(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x^4+e*x^2+d)/x^5/(c*x^4+b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 53

2.2.2195 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^7(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^4+e*x^2+d)/x^7/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 54

2.2.2196 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(d + ex^2 + fx^4)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 61

2.2.2197 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(d + ex^2 + fx^4)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 62

2.2.2198 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex^2 + fx^4)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 63

2.2.2199 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^2 + fx^4)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 64

2.2.2200 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^4+e*x^2+d)/x/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 65

2.2.2201 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^3 (a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^4+e*x^2+d)/x^3/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 66

2.2.2202 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^5 (a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^4+e*x^2+d)/x^5/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 67

2.2.2203 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^2 + fx^4 + gx^6)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(g*x^6+f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.6_P-x-d_x^m-a+b_x^2+c_x^4^p.txt

Test file number 43

Integral number in file 125

2.2.2204 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a} + \sqrt{cx^2}}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^(1/2)+x^2*c^(1/2))/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.7_P-x-d+e_x^2-q-a+b_x^2+c_x^4^p.txt

Test file number 44

Integral number in file 30

2.2.2205 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.7_P-
x-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 44

Integral number in file 37

2.2.2206 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.7_P-
x-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 44

Integral number in file 38

2.2.2207 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.7_P-x-d+e_x^2-^q-a+b_x^2+c_x^4-^p.txt

Test file number 44

Integral number in file 39

2.2.2208 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.7_P-x-d+e_x^2-^q-a+b_x^2+c_x^4-^p.txt

Test file number 44

Integral number in file 40

2.2.2209 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e^2-4*c*d>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.7_P-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 44

Integral number in file 41

2.2.2210 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e^2-4*c*d>0)', see 'assume?' for more details)
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.7_P-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 44

Integral number in file 42

2.2.2211 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(c*x^6+b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 138

2.2.2212 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^6+b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 139

2.2.2213 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(c*x^6+b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 140

2.2.2214 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^6+b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 141

2.2.2215 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^4/(c*x^6+b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 142

2.2.2216 Maxima [F(-2)]

Exception generated.

$$\int x^{14} \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^14*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 185

2.2.2217 Maxima [F(-2)]

Exception generated.

$$\int x^{11} \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^11*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 186

2.2.2218 Maxima [F(-2)]

Exception generated.

$$\int x^8 \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 187

2.2.2219 Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 188

2.2.2220 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 189

2.2.2221 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 190

2.2.2222 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(1/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 191

2.2.2223 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(1/2)/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 192

2.2.2224 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^{10}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(1/2)/x^10,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 193

2.2.2225 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^{13}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^6+b*x^3+a)^(1/2)/x^13,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 194

2.2.2226 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^{16}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^6+b*x^3+a)^(1/2)/x^16,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^2_n^p.txt

Test file number 46

Integral number in file 195

2.2.2227 Maxima [F(-2)]

Exception generated.

$$\int x^{14}(a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^14*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 201

2.2.2228 Maxima [F(-2)]

Exception generated.

$$\int x^{11}(a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^11*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 202

2.2.2229 Maxima [F(-2)]

Exception generated.

$$\int x^8 (a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 203

2.2.2230 Maxima [F(-2)]

Exception generated.

$$\int x^5 (a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 204

2.2.2231 Maxima [F(-2)]

Exception generated.

$$\int x^2 (a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 205

2.2.2232 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(3/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 206

2.2.2233 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(3/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 207

2.2.2234 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(3/2)/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 208

2.2.2235 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^6+b*x^3+a)^(3/2)/x^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 209

2.2.2236 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{13}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^6+b*x^3+a)^(3/2)/x^13,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 210

2.2.2237 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{16}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(3/2)/x^16,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 211

2.2.2238 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{19}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)^(3/2)/x^19,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 212

2.2.2239 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{22}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^6+b*x^3+a)^(3/2)/x^22,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 213

2.2.2240 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^14/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 219

2.2.2241 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^11/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 220

2.2.2242 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 221

2.2.2243 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 222

2.2.2244 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 223

2.2.2245 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^3+cx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 224

2.2.2246 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4\sqrt{a+bx^3+cx^6}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x^4/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 225

2.2.2247 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^7 \sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^7/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 226

2.2.2248 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10} \sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^10/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 227

2.2.2249 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^{13}\sqrt{a+bx^3+cx^6}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^13/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 228

2.2.2250 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{(a+bx^3+cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^14/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 234

2.2.2251 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^11/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 235

2.2.2252 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 236

2.2.2253 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 237

2.2.2254 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 238

2.2.2255 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^3+cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 239

2.2.2256 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4(a+bx^3+cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/x^4/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 240

2.2.2257 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^7 (a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^7/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 241

2.2.2258 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10} (a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^10/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 242

2.2.2259 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

[In] integrate(x¹¹/(c*x⁸+b*x⁴+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b²>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_xⁿ+c_x⁻²_n^p.txt

Test file number 46

Integral number in file 310

2.2.2260 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁷/(c*x⁸+b*x⁴+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b²>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_xⁿ+c_x⁻²_n^p.txt

Test file number 46

Integral number in file 312

2.2.2261 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^8+b*x^4+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 314

2.2.2262 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^8+b*x^4+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 316

2.2.2263 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^5/(c*x^8+b*x^4+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 318

2.2.2264 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c+a/x^2+b/x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 412

2.2.2265 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(c+a/x^2+b/x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 413

2.2.2266 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c+a/x^2+b/x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 414

2.2.2267 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 415

2.2.2268 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)x} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 416

2.2.2269 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(c+a/x^2+b/x)/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 417

2.2.2270 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(c+a/x^2+b/x)/x^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 418

2.2.2271 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(c+a/x^2+b/x)/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 419

2.2.2272 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(c+a/x^2+b/x)/x^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for mo
re deta
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 420

2.2.2273 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 421

2.2.2274 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c+a/x^2+b/x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 422

2.2.2275 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 423

2.2.2276 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)^2/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 424

2.2.2277 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^2/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 425

2.2.2278 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^2/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 426

2.2.2279 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^2/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 427

2.2.2280 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^2/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 428

2.2.2281 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^2/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 429

2.2.2282 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^2/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 430

2.2.2283 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 431

2.2.2284 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)^3/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 432

2.2.2285 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)^3/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 433

2.2.2286 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)^3/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 434

2.2.2287 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^3/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 435

2.2.2288 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^3/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 436

2.2.2289 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^3/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 437

2.2.2290 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c+a/x^2+b/x)^3/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt`

Test file number 46

Integral number in file 438

2.2.2291 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^8} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+a/x^2+b/x)^3/x^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^m-a+b_x^n+c_x^-2_n^p.txt

Test file number 46

Integral number in file 439

2.2.2292 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + \frac{e}{x}}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e/x)/(c+a/x^2+b/x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 47

Integral number in file 35

2.2.2293 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^3 + cx^6}{d + ex^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)/(e*x^3+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 6

2.2.2294 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^3 + cx^6}{(d + ex^3)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c*x^6+b*x^3+a)/(e*x^3+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 7

2.2.2295 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^3 + cx^6}{(d + ex^3)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^6+b*x^3+a)/(e*x^3+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 8

2.2.2296 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(d + ex^3)}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^8*(e*x^3+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 9

2.2.2297 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(d + ex^3)}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(e*x^3+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 10

2.2.2298 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex^3)}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(e*x^3+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 11

2.2.2299 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^3}{x(a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^3+d)/x/(c*x^6+b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 12

2.2.2300 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^3}{x^4(a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^3+d)/x^4/(c*x^6+b*x^3+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 13

2.2.2301 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex^4)}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 44

2.2.2302 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^4}{x(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^4+d)/x/(c*x^8+b*x^4+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 48

2.2.2303 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(a+c/x^2+b/x)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 61

2.2.2304 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+c/x^2+b/x)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 62

2.2.2305 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+c/x^2+b/x)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 63

2.2.2306 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+c/x^2+b/x)/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 64

2.2.2307 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 65

2.2.2308 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^2(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x^2/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 66

2.2.2309 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^3 (d + ex)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x^3/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 67

2.2.2310 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^4 (d + ex)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x^4/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 68

2.2.2311 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^5 (d + ex)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x^5/(e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 69

2.2.2312 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) (d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(a+c/x^2+b/x)/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 70

2.2.2313 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) (d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+c/x^2+b/x)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 71

2.2.2314 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) (d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+c/x^2+b/x)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 72

2.2.2315 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 73

2.2.2316 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)x(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 74

2.2.2317 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^2 (d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x^2/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 75

2.2.2318 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^3 (d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x^3/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 76

2.2.2319 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^4 (d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x^4/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 77

2.2.2320 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^5 (d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c/x^2+b/x)/x^5/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 78

2.2.2321 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 11

2.2.2322 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 12

2.2.2323 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 13

2.2.2324 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 14

2.2.2325 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 15

2.2.2326 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 16

2.2.2327 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(ax^2 + bx^3 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 17

2.2.2328 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(ax^2 + bx^3 + cx^4)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^2/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 18

2.2.2329 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^8/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 19

2.2.2330 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^7/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 20

2.2.2331 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^6/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 21

2.2.2332 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 22

2.2.2333 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 23

2.2.2334 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 24

2.2.2335 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 25

2.2.2336 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 26

2.2.2337 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 27

2.2.2338 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 28

2.2.2339 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 129

2.2.2340 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 133

2.2.2341 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{bx + cx^2 + dx^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(d*x^3+c*x^2+b*x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b*d-c^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 26

2.2.2342 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{bx + c(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(b*x+c*(e*x+d)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c*d*e+b>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 489

2.2.2343 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bx + c(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*x+c*(e*x+d)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c*e^2>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 490

2.2.2344 Maxima [F(-2)]

Exception generated.

$$\int \frac{2 - 2x - x^2}{(2 + d + dx + x^2)\sqrt{1 + x^3}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((-x^2-2*x+2)/(d*x+x^2+d+2)/(x^3+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d^2-4*(d+2)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 202

2.2.2345 Maxima [F(-2)]

Exception generated.

$$\int \frac{2 + 2x - x^2}{(2 - d + dx + x^2)\sqrt{1 - x^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate((-x^2+2*x+2)/(d*x+x^2-d+2)/(-x^3+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d^2-4*(2-d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 203

2.2.2346 Maxima [F(-2)]

Exception generated.

$$\int \frac{2 + 2x - x^2}{(2 - d + dx + x^2)\sqrt{-1 + x^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate((-x^2+2*x+2)/(d*x+x^2-d+2)/(x^3-1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d^2-4*(2-d)>0)', see 'assume?' for more de

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 204

2.2.2347 Maxima [F(-2)]

Exception generated.

$$\int \frac{2 - 2x - x^2}{(2 + d + dx + x^2)\sqrt{-1 - x^3}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((-x^2-2*x+2)/(d*x+x^2+d+2)/(-x^3-1)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(d^2-4*(d+2)>0)', see 'assume?' for
more de
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 205

2.2.2348 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{(b-x)(-a+x)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(((b-x)*(-a+x))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 259

2.2.2349 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{(b-x)(-a+x)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/((b-x)*(-a+x))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 261

2.2.2350 Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{\frac{e(a+bx^2)}{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 263

2.2.2351 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\frac{e(a+bx^2)}{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 264

2.2.2352 Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{\frac{e(a+bx^2)}{c+dx^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 265

2.2.2353 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(ax^2+b)}{c+dx^2}}}{x} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 266

2.2.2354 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(ax^2+b)}{c+dx^2}}}{x^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 267

2.2.2355 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(ax^2+b)}{c+dx^2}}}{x^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 268

2.2.2356 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(ax^2+b)}{c+dx^2}}}{x^7} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x^7,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 269

2.2.2357 Maxima [F(-2)]

Exception generated.

$$\int x^5 \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 276

2.2.2358 Maxima [F(-2)]

Exception generated.

$$\int x^3 \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 277

2.2.2359 Maxima [F(-2)]

Exception generated.

$$\int x \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 278

2.2.2360 Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 279

2.2.2361 Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 280

2.2.2362 Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 281

2.2.2363 Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 282

2.2.2364 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 296

2.2.2365 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 297

2.2.2366 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 298

2.2.2367 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 299

2.2.2368 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 300

2.2.2369 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/x^5/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 301

2.2.2370 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^5/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 307

2.2.2371 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 308

2.2.2372 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 309

2.2.2373 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 310

2.2.2374 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^3/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 311

2.2.2375 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/x^5/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 312

2.2.2376 Maxima [F(-2)]

Exception generated.

$$\int \left(d + ex + f \sqrt{a + bx + \frac{e^2 x^2}{f^2}} \right)^3 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d+e*x+f*(a+b*x+e^2*x^2/f^2)^(1/2))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2*f^2-4*a*e^2>0)', see 'assume?' for more

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 473

2.2.2377 Maxima [F(-2)]

Exception generated.

$$\int \left(d + ex + f \sqrt{a + bx + \frac{e^2 x^2}{f^2}} \right)^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x+f*(a+b*x+e^2*x^2/f^2)^(1/2))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2*f^2-4*a*e^2>0)', see 'assume?' for mor

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 474

2.2.2378 Maxima [F(-2)]

Exception generated.

$$\int \left(d + ex + f \sqrt{a + bx + \frac{e^2 x^2}{f^2}} \right) dx = \text{Exception raised: ValueError}$$

[In] integrate(d+e*x+f*(a+b*x+e^2*x^2/f^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2*f^2-4*a*e^2>0)', see 'assume?' for mor

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 475

2.2.2379 Maxima [F(-2)]

Exception generated.

$$\int \left(\frac{x}{(a+bx^2)^{3/2}} + \frac{x}{(1+x^2)\sqrt{a+bx^2}} \right) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x/(b*x^2+a)^(3/2)+x/(x^2+1)/(b*x^2+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 687

2.2.2380 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(1+a+x^2+bx^2)}{(1+x^2)(a+bx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(b*x^2+x^2+a+1)/(x^2+1)/(b*x^2+a)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 688

2.2.2381 Maxima [F(-2)]

Exception generated.

$$\int \left(\frac{x}{(a+bx^2)^{5/2}} + \frac{x}{(a+bx^2)^{3/2}} + \frac{x}{(1+x^2)\sqrt{a+bx^2}} \right) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x/(b*x^2+a)^(5/2)+x/(b*x^2+a)^(3/2)+x/(x^2+1)/(b*x^2+a)^(1/2),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 689

2.2.2382 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(1+a+a^2+x^2+ax^2+bx^2+2abx^2+bx^4+b^2x^4)}{(1+x^2)(a+bx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(b^2*x^4+b*x^4+2*a*b*x^2+a*x^2+b*x^2+a^2+x^2+a+1)/(x^2+1)/(b*x^
2+a)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more
detail
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 690

2.2.2383 Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{\sqrt{a - b + \frac{b}{x^2}x^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate((x^2-1)/x^3/(a-b+b/x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 811

2.2.2384 Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{\sqrt{a + b \left(-1 + \frac{1}{x^2}\right)x^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate((x^2-1)/x^3/(a+b*(-1+1/x^2))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 812

2.2.2385 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^3 \sqrt{-1 + x^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*x^2+b*x+a)/(e*x+d)^3/(x^2-1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-d)*(e+d)>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 832

2.2.2386 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{(a + bx)(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/((b*x+a)*(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more details)

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 955

2.2.2387 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{(a+bx)(c-dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/((b*x+a)*(-d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 956

2.2.2388 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + be^x + ce^{2x}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*exp(x)+c*exp(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more detail

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 509

2.2.2389 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + be^x + ce^{2x}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(a+b*exp(x)+c*exp(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 514

2.2.2390 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + be^x + ce^{2x}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(a+b*exp(x)+c*exp(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 519

2.2.2391 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b f^{c+dx} + c f^{2c+2dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*f^(d*x+c)+c*f^(2*d*x+2*c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 521

2.2.2392 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b f^{g+hx} + c f^{2(g+hx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*f^(h*x+g)+c*f^(2*h*x+2*g)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 522

2.2.2393 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + bf^{c+dx} + cf^{2c+2dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+b*f^(d*x+c)+c*f^(2*d*x+2*c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 524

2.2.2394 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + bf^{c+dx} + cf^{2c+2dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+b*f^(d*x+c)+c*f^(2*d*x+2*c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 526

2.2.2395 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + e f^{g+hx}}{a + b f^{g+hx} + c f^{2g+2hx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*f^(h*x+g))/(a+b*f^(h*x+g)+c*f^(2*h*x+2*g)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 527

2.2.2396 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + e f^{g+hx}}{a + b f^{g+hx} + c f^{2(g+hx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*f^(h*x+g))/(a+b*f^(h*x+g)+c*f^(2*h*x+2*g)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 528

2.2.2397 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + be^{-x} + ce^x} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b/exp(x)+c*exp(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b*c-a^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 537

2.2.2398 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + be^{-x} + ce^x} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(a+b/exp(x)+c*exp(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a^2-4*b*c>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 538

2.2.2399 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + be^{-x} + ce^x} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(a+b/exp(x)+c*exp(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a^2-4*b*c>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 539

2.2.2400 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bf^{-c-dx} + cf^{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*f^(-d*x-c)+c*f^(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b*c-a^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 540

2.2.2401 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + bf^{-c-dx} + cf^{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+b*f^(-d*x-c)+c*f^(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a^2-4*b*c>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 541

2.2.2402 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + bf^{-c-dx} + cf^{c+dx}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+b*f^(-d*x-c)+c*f^(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a^2-4*b*c>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 542

2.2.2403 Maxima [F(-2)]

Exception generated.

$$\int a^x b^x dx = \text{Exception raised: ValueError}$$

[In] integrate(a^x*b^x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(log(b)/log(a)>0)', see 'assume?' for more

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 565

2.2.2404 Maxima [F(-2)]

Exception generated.

$$\int a^x b^x c^x dx = \text{Exception raised: ValueError}$$

[In] integrate(a^x*b^x*c^x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(log(c)/log(a)+log(b)/log(a)>0)', see 'assume'

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 569

2.2.2405 Maxima [F(-2)]

Exception generated.

$$\int a^x b^{-x} dx = \text{Exception raised: ValueError}$$

[In] integrate(a^x/(b^x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-log(b)/log(a)>0)', see 'assume?' for more

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 570

2.2.2406 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ee^{h+ix})(f + gx)^3}{a + be^{h+ix} + ce^{2h+2ix}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*exp(i*x+h))*(g*x+f)^3/(a+b*exp(i*x+h)+c*exp(2*i*x+2*h)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 572

2.2.2407 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ee^{h+ix})(f + gx)^2}{a + be^{h+ix} + ce^{2h+2ix}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*exp(i*x+h))*(g*x+f)^2/(a+b*exp(i*x+h)+c*exp(2*i*x+2*h)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 573

2.2.2408 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ee^{h+ix})(f + gx)}{a + be^{h+ix} + ce^{2h+2ix}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*exp(i*x+h))*(g*x+f)/(a+b*exp(i*x+h)+c*exp(2*i*x+2*h)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 574

2.2.2409 Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ee^{h+ix}}{a + be^{h+ix} + ce^{2h+2ix}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*exp(i*x+h))/(a+b*exp(i*x+h)+c*exp(2*i*x+2*h)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 575

2.2.2410 Maxima [F(-2)]

Exception generated.

$$\int (e^x - x^e) dx = \text{Exception raised: ValueError}$$

[In] integrate(exp(x)-x^E,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(E>0)', see 'assume?' for more details)

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 646

2.2.2411 Maxima [F(-2)]

Exception generated.

$$\int (dx)^m (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x)^m*(a+b*log(c*x^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt

Test file number 56

Integral number in file 167

2.2.2412 Maxima [F(-2)]

Exception generated.

$$\int x^2 (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*log(c*x^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n-p.txt

Test file number 56

Integral number in file 168

2.2.2413 Maxima [F(-2)]

Exception generated.

$$\int x (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a+b*log(c*x^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 169

2.2.2414 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*x^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 170

2.2.2415 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*x^n))^p/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 172

2.2.2416 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*x^n))^p/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n^p.txt

Test file number 56

Integral number in file 173

2.2.2417 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*x^n))^p/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_x^n^p.txt

Test file number 56

Integral number in file 174

2.2.2418 Maxima [F(-2)]

Exception generated.

$$\int x^{-1+n}(a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^(-1+n)*(a+b*log(c*x^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.2-d_x^m-a+b_log-c_xⁿ-p.txt

Test file number 56

Integral number in file 191

2.2.2419 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \log(cx^n))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x⁴*(a+b*log(c*xⁿ))/(e*x²+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_xⁿ-p.txt

Test file number 57

Integral number in file 216

2.2.2420 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x²*(a+b*log(c*xⁿ))/(e*x²+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_xⁿ-p.txt

Test file number 57

Integral number in file 217

2.2.2421 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 218

2.2.2422 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^2/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 219

2.2.2423 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4(d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^4/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 220

2.2.2424 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \log(cx^n))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*log(c*x^n))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 226

2.2.2425 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 227

2.2.2426 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 228

2.2.2427 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 229

2.2.2428 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 230

2.2.2429 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \log(cx^n))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*log(c*x^n))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 236

2.2.2430 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 237

2.2.2431 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 238

2.2.2432 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 239

2.2.2433 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 240

2.2.2434 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx)}{1 - ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x))/(-e*x^2+1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 245

2.2.2435 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{1 - ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/(-e*x^2+1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 246

2.2.2436 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 247

2.2.2437 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))^3/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 248

2.2.2438 Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*log(c*x^n))*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 251

2.2.2439 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(a+b*log(c*x^n))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 252

2.2.2440 Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(a+b*log(c*x^n))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 253

2.2.2441 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*(e*x^2+d)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 254

2.2.2442 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*(e*x^2+d)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 255

2.2.2443 Maxima [F(-2)]

Exception generated.

$$\int x^4 \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*log(c*x^n))*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x-r-^q-a+b_log-c_x-n-^p.txt

Test file number 57

Integral number in file 256

2.2.2444 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*x^n))*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x-r-^q-a+b_log-c_x-n-^p.txt

Test file number 57

Integral number in file 257

2.2.2445 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 258

2.2.2446 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2}(a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*(e*x^2+d)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 259

2.2.2447 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*(e*x^2+d)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 260

2.2.2448 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*(e*x^2+d)^(1/2)/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 261

2.2.2449 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2}(a + b \log(cx^n))}{x^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*(e*x^2+d)^(1/2)/x^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 262

2.2.2450 Maxima [F(-2)]

Exception generated.

$$\int x^5(d + ex^2)^{3/2}(a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 263

2.2.2451 Maxima [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 264

2.2.2452 Maxima [F(-2)]

Exception generated.

$$\int x(d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 265

2.2.2453 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 266

2.2.2454 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 267

2.2.2455 Maxima [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 268

2.2.2456 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 269

2.2.2457 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 270

2.2.2458 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 271

2.2.2459 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 272

2.2.2460 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 273

2.2.2461 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 274

2.2.2462 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \log(cx^n))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 276

2.2.2463 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \log(cx^n))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 277

2.2.2464 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \log(cx^n))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 278

2.2.2465 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 279

2.2.2466 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^3\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 280

2.2.2467 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 281

2.2.2468 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 282

2.2.2469 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 283

2.2.2470 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 284

2.2.2471 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^6 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^6/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 285

2.2.2472 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 286

2.2.2473 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 287

2.2.2474 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 288

2.2.2475 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 289

2.2.2476 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 290

2.2.2477 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^3 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 291

2.2.2478 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 292

2.2.2479 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 293

2.2.2480 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 294

2.2.2481 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 295

2.2.2482 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^6 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))/x^6/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 296

2.2.2483 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^7*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 297

2.2.2484 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 298

2.2.2485 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 300

2.2.2486 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 301

2.2.2487 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^3 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 302

2.2.2488 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^6*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 303

2.2.2489 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^4*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 304

2.2.2490 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 307

2.2.2491 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 308

2.2.2492 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3}{(d + ex^3)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))^3/(e*x^3+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 324

2.2.2493 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2}{(d + ex^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))^2/(e*x^3+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 325

2.2.2494 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{(d + ex^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/(e*x^3+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 326

2.2.2495 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-3>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 371

2.2.2496 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-5>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 372

2.2.2497 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-2>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 376

2.2.2498 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-4>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 377

2.2.2499 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-6>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 378

2.2.2500 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2(a + b \log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-3>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 383

2.2.2501 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-5>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 384

2.2.2502 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-2>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 388

2.2.2503 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-4>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 389

2.2.2504 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-6>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 390

2.2.2505 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-8>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 391

2.2.2506 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-3>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 396

2.2.2507 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(r-5>0)', see 'assume?' for more det
ails)Is
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 397

2.2.2508 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(r-2>0)', see 'assume?' for more det
ails)Is
```

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 401

2.2.2509 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-4>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 402

2.2.2510 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-6>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 403

2.2.2511 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-8>0)', see 'assume?' for more details)Is

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 404

2.2.2512 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^{10}} dx = \text{Exception raised: ValueError}$$

[In] integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^10,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-10>0)', see 'assume?' for more details)I

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 405

2.2.2513 Maxima [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r)^3 (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x)^m*(d+e*x^r)^3*(a+b*log(c*x^n))^p,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

```
input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt
```

```
Test file number 57
```

```
Integral number in file 448
```

2.2.2514 Maxima [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r)^2 (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x)^m*(d+e*x^r)^2*(a+b*log(c*x^n))^p,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

```
input file name 3_Logarithms/3.1.4-f_x^m-d+e_x^r-q-a+b_log-c_x^n-p.txt
```

```
Test file number 57
```

```
Integral number in file 449
```

2.2.2515 Maxima [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r) (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x)^m*(d+e*x^r)*(a+b*log(c*x^n))^p,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 450

2.2.2516 Maxima [F(-2)]

Exception generated.

$$\int (fx)^m (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x)^m*(a+b*log(c*xⁿ))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 451

2.2.2517 Maxima [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (a + b \log(cx^n))^p}{d + ex^r} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x)^m*(a+b*log(c*xⁿ))^p/(d+e*x^r),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_xⁿ-^p.txt

Test file number 57

Integral number in file 452

2.2.2518 Maxima [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (a + b \log(cx^n))^p}{(d + ex^r)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x)^m*(a+b*log(c*x^n))^p/(d+e*x^r)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txt

Test file number 57

Integral number in file 453

2.2.2519 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-^p.txt

Test file number 58

Integral number in file 1

2.2.2520 Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n)) \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*log(c*x^n))*log(d*(f*x^2+e)^m),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 95

2.2.2521 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n)) \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))*log(d*(f*x^2+e)^m),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 96

2.2.2522 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^2)^m)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*log(d*(f*x^2+e)^m)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 97

2.2.2523 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^2)^m)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*log(d*(f*x^2+e)^m)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 98

2.2.2524 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^2)^m)}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*x^n))*log(d*(f*x^2+e)^m)/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 99

2.2.2525 Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n))^2 \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*x^n))^2*log(d*(f*x^2+e)^m),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 104

2.2.2526 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n))^2 \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))^2*log(d*(f*x^2+e)^m),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 105

2.2.2527 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2 \log(d(e + fx^2)^m)}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))^2*log(d*(f*x^2+e)^m)/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 106

2.2.2528 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2 \log(d(e + fx^2)^m)}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))^2*log(d*(f*x^2+e)^m)/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 107

2.2.2529 Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n))^3 \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*log(c*x^n))^3*log(d*(f*x^2+e)^m),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 111

2.2.2530 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n))^3 \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))^3*log(d*(f*x^2+e)^m),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 112

2.2.2531 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3 \log(d(e + fx^2)^m)}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))^3*log(d*(f*x^2+e)^m)/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 113

2.2.2532 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3 \log(d(e + fx^2)^m)}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*x^n))^3*log(d*(f*x^2+e)^m)/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 114

2.2.2533 Maxima [F(-2)]

Exception generated.

$$\int (gx)^m (a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x)^m*(a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="maxima"
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 178

2.2.2534 Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 179

2.2.2535 Maxima [F(-2)]

Exception generated.

$$\int x(a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 180

2.2.2536 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 181

2.2.2537 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p (d + e \log(fx^r))}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*x^n))^p*(d+e*log(f*x^r))/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 183

2.2.2538 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p (d + e \log(fx^r))}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*x^n))^p*(d+e*log(f*x^r))/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 184

2.2.2539 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p (d + e \log(fx^r))}{x^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+b*log(c*x^n))^p*(d+e*log(f*x^r))/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 185

2.2.2540 Maxima [F(-2)]

Exception generated.

$$\int (ex)^q (a + b \log(c(dx^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*x)^q*(a+b*log(c*(d*x^m)^n))^p,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 242

2.2.2541 Maxima [F(-2)]

Exception generated.

$$\int x^2 (a + b \log(c(dx^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^2*(a+b*log(c*(d*x^m)^n))^p,x, algorithm="maxima")
```


[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 243

2.2.2542 Maxima [F(-2)]

Exception generated.

$$\int x(a + b \log(c(dx^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a+b*log(c*(d*x^m)^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 244

2.2.2543 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(dx^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(d*x^m)^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 245

2.2.2544 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(dx^m)^n))^p}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(d*x^m)^n))^p/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n^p.txt

Test file number 58

Integral number in file 247

2.2.2545 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(dx^m)^n))^p}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(d*x^m)^n))^p/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n^p.txt

Test file number 58

Integral number in file 248

2.2.2546 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(dx^m)^n)}{e + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*x^m)^n))/(f*x^2+e),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 249

2.2.2547 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log\left(\frac{a+bx}{(bc-ad)x}\right)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(log(x)*log((b*x+a)/(-a*d+b*c)/x)/x,x, algorithm="maxima")

[Out] Exception raised: TypeError >> unable to make sense of Maxima expression 'li[2]' in Sage

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 64

2.2.2548 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \log\left(e\left(\frac{a+bx}{c+dx}\right)^n\right)}{f+gx+hx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*log(e*((b*x+a)/(d*x+c))^n)/(h*x^2+g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 82

2.2.2549 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \log \left(e^{\left(\frac{a+bx}{c+dx} \right)^n} \right)}{f + gx + hx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*log(e*((b*x+a)/(d*x+c))^n)/(h*x^2+g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 83

2.2.2550 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \log \left(e^{\left(\frac{a+bx}{c+dx} \right)^n} \right)}{f + gx + hx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*log(e*((b*x+a)/(d*x+c))^n)/(h*x^2+g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 84

2.2.2551 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(e^{\left(\frac{a+bx}{c+dx}\right)^n}\right)}{f+gx+hx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(e*((b*x+a)/(d*x+c))^n)/(h*x^2+g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 85

2.2.2552 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(e^{\left(\frac{a+bx}{c+dx}\right)^n}\right)}{x(f+gx+hx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(e*((b*x+a)/(d*x+c))^n)/x/(h*x^2+g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 86

2.2.2553 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(e^{\left(\frac{a+bx}{c+dx}\right)^n}\right)}{x^2(f+gx+hx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(e*((b*x+a)/(d*x+c))^n)/x^2/(h*x^2+g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 87

2.2.2554 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2\left(\frac{(be-af)(c+dx)}{(de-cf)(a+bx)}\right)}{(a+bx)(e+fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log((-a*f+b*e)*(d*x+c)/(-c*f+d*e)/(b*x+a))^2/(b*x+a)/(f*x+e),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 106

2.2.2555 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2 \left(\frac{(be-af)(c+dx)}{(de-cf)(a+bx)} \right)}{e+fx} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log((-a*f+b*e)*(d*x+c)/(-c*f+d*e)/(b*x+a))^2/(f*x+e),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 107

2.2.2556 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log \left(\frac{(be-af)(c+dx)}{(de-cf)(a+bx)} \right) \log \left(\frac{b(e+fx)}{be-af} \right)}{(a+bx)(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log((-a*f+b*e)*(d*x+c)/(-c*f+d*e)/(b*x+a))*log(b*(f*x+e)/(-a*f+b*e))/(b*x+a)/(d*x+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x^p-c+d_x^q-r^s.txt

Test file number 61

Integral number in file 108

2.2.2557 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 31

2.2.2558 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^{3/2} (a + b \log(c(d + ex)^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^(3/2)*(a+b*log(c*(e*x+d)^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 138

2.2.2559 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{f + gx}(a + b \log(c(d + ex)^n)) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^(1/2)*(a+b*log(c*(e*x+d)^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 139

2.2.2560 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 140

2.2.2561 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 141

2.2.2562 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 142

2.2.2563 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 143

2.2.2564 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 144

2.2.2565 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^{3/2} (a + b \log(c(d + ex)^n))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^(3/2)*(a+b*log(c*(e*x+d)^n))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 145

2.2.2566 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{f + gx} (a + b \log(c(d + ex)^n))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^(1/2)*(a+b*log(c*(e*x+d)^n))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 146

2.2.2567 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 147

2.2.2568 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 148

2.2.2569 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 149

2.2.2570 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 150

2.2.2571 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more de

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 151

2.2.2572 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^m (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^m*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 169

2.2.2573 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^3 (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 170

2.2.2574 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^2*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x^n-p.txt

Test file number 62

Integral number in file 171

2.2.2575 Maxima [F(-2)]

Exception generated.

$$\int (f + gx) (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 172

2.2.2576 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(e*x+d)ⁿ))ⁿ,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 173

2.2.2577 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^n}{f + gx} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(e*x+d)ⁿ))ⁿ/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 174

2.2.2578 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + b \log(c(d + ex)^n))}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x+f)^(5/2)*(a+b*log(c*(e*x+d)^n))/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 198

2.2.2579 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + b \log(c(d + ex)^n))}{d + ex} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x+f)^(3/2)*(a+b*log(c*(e*x+d)^n))/(e*x+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 199

2.2.2580 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+b\log(c(d+ex)^n))}{d+ex} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^(1/2)*(a+b*log(c*(e*x+d)^n))/(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 200

2.2.2581 Maxima [F(-2)]

Exception generated.

$$\int \frac{a+b\log(c(d+ex)^n)}{(d+ex)\sqrt{f+gx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(e*x+d)^n))/(e*x+d)/(g*x+f)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 201

2.2.2582 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*(e*x+d)^n))/(e*x+d)/(g*x+f)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 202

2.2.2583 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*(e*x+d)^n))/(e*x+d)/(g*x+f)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see 'assume?' for more details)
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 203

2.2.2584 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2} \log(a+bx)}{a+bx} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(3/2)*log(b*x+a)/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 204

2.2.2585 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex} \log(a+bx)}{a+bx} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^(1/2)*log(b*x+a)/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 205

2.2.2586 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(a + bx)}{(a + bx)\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(log(b*x+a)/(b*x+a)/(e*x+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 206

2.2.2587 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(a + bx)}{(a + bx)(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(log(b*x+a)/(b*x+a)/(e*x+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more
detail
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 207

2.2.2588 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(a+bx)}{(a+bx)(d+ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(b*x+a)/(b*x+a)/(e*x+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 208

2.2.2589 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3(c(a+bx)^n)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(b*x+a)^n)^3/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 329

2.2.2590 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(a+bx)^n)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(b*x+a)^n)^2/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 330

2.2.2591 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(a+bx)^n)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(b*x+a)^n)/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 331

2.2.2592 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3(c(a+bx)^n)}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(b*x+a)^n)^3/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 347

2.2.2593 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(a+bx)^n)}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(b*x+a)^n)^2/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 348

2.2.2594 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(a+bx)^n)}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(log(c*(b*x+a)^n)/(f*x^2+e*x+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 349

2.2.2595 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \log(x)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*log(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 351

2.2.2596 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \log(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*log(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 352

2.2.2597 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \log(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*log(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 353

2.2.2598 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(x)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 354

2.2.2599 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{x(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(x)/x/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 355

2.2.2600 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{x^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(log(x)/x^2/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 356

2.2.2601 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{x^3(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(log(x)/x^3/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 357

2.2.2602 Maxima [F(-2)]

Exception generated.

$$\int \log(fx^m)(a + b \log(c(d + ex)^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log(f*x^m)*(a+b*log(c*(e*x+d)^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 377

2.2.2603 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(d(e + fx)^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^m)^n))^p,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 418

2.2.2604 Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^{3/2} (a + b \log(c(d(e + fx)^p)^q)) dx = \text{Exception raised: ValueError}$$

[In] integrate((h*x+g)^(3/2)*(a+b*log(c*(d*(f*x+e)^p)^q)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 482

2.2.2605 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{g + hx}(a + b \log(c(d(e + fx)^p)^q)) dx = \text{Exception raised: ValueError}$$

[In] integrate((h*x+g)^(1/2)*(a+b*log(c*(d*(f*x+e)^p)^q)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 483

2.2.2606 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{\sqrt{g + hx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 484

2.2.2607 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{(g + hx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 485

2.2.2608 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{(g + hx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 486

2.2.2609 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{(g + hx)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 487

2.2.2610 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{(g + hx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 488

2.2.2611 Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^{3/2} (a + b \log(c(d(e + fx)^p)^q))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^(3/2)*(a+b*log(c*(d*(f*x+e)^p)^q))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 489

2.2.2612 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{g + hx} (a + b \log(c(d(e + fx)^p)^q))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((h*x+g)^(1/2)*(a+b*log(c*(d*(f*x+e)^p)^q))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 490

2.2.2613 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{\sqrt{g + hx}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 491

2.2.2614 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{(g + hx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 492

2.2.2615 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{(g + hx)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 493

2.2.2616 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{(g + hx)^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 494

2.2.2617 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{(g + hx)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see 'assume?' for more detail

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 495

2.2.2618 Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^m (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((h*x+g)^m*(a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 513

2.2.2619 Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^2 (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((h*x+g)^2*(a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 514

2.2.2620 Maxima [F(-2)]

Exception generated.

$$\int (g + hx) (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((h*x+g)*(a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 515

2.2.2621 Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 516

2.2.2622 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^n}{g + hx} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*log(c*(d*(f*x+e)^p)^q))^n/(h*x+g),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 517

2.2.2623 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3(c(a + bx^2)^p)}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log(c*(b*x^2+a)^p)^3/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x-^m-ⁿ-^p.txt

Test file number 63

Integral number in file 100

2.2.2624 Maxima [F(-2)]

Exception generated.

$$\int x \log^2 (c(d + ex^3)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate(x*log(c*(e*x^3+d)^p)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 133

2.2.2625 Maxima [F(-2)]

Exception generated.

$$\int \log^2 (c(d + ex^3)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^3+d)^p)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 134

2.2.2626 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(d+ex^3)^p)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^3+d)^p)^2/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 135

2.2.2627 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(d+ex^3)^p)}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^3+d)^p)^2/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 136

2.2.2628 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(d+ex^3)^p)}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^3+d)^p)^2/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 137

2.2.2629 Maxima [F(-2)]

Exception generated.

$$\int (f+gx^2)^3 \log(c(d+ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)^3*log(c*(e*x^2+d)^p),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 268

2.2.2630 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2)^2 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 269

2.2.2631 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2) \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)*log(c*(e*x^2+d)^p),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 270

2.2.2632 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d+ex^2)^p)}{(f+gx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)/(g*x^2+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 272

2.2.2633 Maxima [F(-2)]

Exception generated.

$$\int (f+gx^2)^2 \log^2(c(d+ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 273

2.2.2634 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2) \log^2 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 274

2.2.2635 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2 (c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)^2/(g*x^2+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 276

2.2.2636 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2) \log^3 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)*log(c*(e*x^2+d)^p)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 277

2.2.2637 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3 (c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)^3/(g*x^2+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 279

2.2.2638 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3)^3 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f)^3*log(c*(e*x^2+d)^p),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 288

2.2.2639 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3)^2 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f)^2*log(c*(e*x^2+d)^p),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 289

2.2.2640 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3) \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f)*log(c*(e*x^2+d)^p),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 290

2.2.2641 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{(f + gx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)/(g*x^3+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 292

2.2.2642 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3)^3 \log^2 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f)^3*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 293

2.2.2643 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3)^2 \log^2 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f)^2*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 294

2.2.2644 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3) \log^2 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f)*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 295

2.2.2645 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2 (c(d + ex^2)^p)}{(f + gx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)^2/(g*x^3+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 297

2.2.2646 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3)^2 \log^3 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f)^2*log(c*(e*x^2+d)^p)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 298

2.2.2647 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3) \log^3 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^3+f)*log(c*(e*x^2+d)^p)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 299

2.2.2648 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3(c(d+ex^2)^p)}{(f+gx^3)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)^3/(g*x^3+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 301

2.2.2649 Maxima [F(-2)]

Exception generated.

$$\int x^2(f+gx^2)\log(c(d+ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(g*x^2+f)*log(c*(e*x^2+d)^p),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 318

2.2.2650 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2) \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)*log(c*(e*x^2+d)^p),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 319

2.2.2651 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2) \log(c(d + ex^2)^p)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)*log(c*(e*x^2+d)^p)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 320

2.2.2652 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2) \log(c(d + ex^2)^p)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)*log(c*(e*x^2+d)^p)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 321

2.2.2653 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2) \log(c(d + ex^2)^p)}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)*log(c*(e*x^2+d)^p)/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 322

2.2.2654 Maxima [F(-2)]

Exception generated.

$$\int x^2(f + gx^2)^2 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(g*x^2+f)^2*log(c*(e*x^2+d)^p),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-^n-^p.txt

Test file number 63

Integral number in file 332

2.2.2655 Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2)^2 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-^n-^p.txt

Test file number 63

Integral number in file 333

2.2.2656 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2)^2 \log(c(d + ex^2)^p)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 334

2.2.2657 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2)^2 \log(c(d + ex^2)^p)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 335

2.2.2658 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2)^2 \log(c(d + ex^2)^p)}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 336

2.2.2659 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2)^2 \log(c(d + ex^2)^p)}{x^8} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)/x^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 337

2.2.2660 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \log(c(d + ex^2)^p)}{f + gx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*log(c*(e*x^2+d)^p)/(g*x^2+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 343

2.2.2661 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \log(c(d + ex^2)^p)}{f + gx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*log(c*(e*x^2+d)^p)/(g*x^2+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 344

2.2.2662 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{x^2(f + gx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)/x^2/(g*x^2+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 346

2.2.2663 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{x^4(f + gx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)/x^4/(g*x^2+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 347

2.2.2664 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \log(c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*log(c*(e*x^2+d)^p)/(g*x^2+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 353

2.2.2665 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \log(c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*log(c*(e*x^2+d)^p)/(g*x^2+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 354

2.2.2666 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)/(g*x^2+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 355

2.2.2667 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{x^2(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(e*x^2+d)^p)/x^2/(g*x^2+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 356

2.2.2668 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^{2n})^2 \log^q (c(d + ex^n)^p)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f+g*x^(2*n))^2*log(c*(d+e*x^n)^p)^q/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 381

2.2.2669 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^n)^2 \log^q (c(d + ex^n)^p)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f+g*x^n)^2*log(c*(d+e*x^n)^p)^q/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 382

2.2.2670 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^{-n})^2 \log^q (c(d + ex^n)^p)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f+g/(x^n))^2*log(c*(d+e*x^n)^p)^q/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 383

2.2.2671 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^{-2n})^2 \log^q(c(d + ex^n)^p)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f+g/(x^(2*n)))^2*log(c*(d+e*x^n)^p)^q/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 384

2.2.2672 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d + ex^n)^p)}{x(f + gx^{2n})} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log(c*(d+e*x^n)^p)^q/x/(f+g*x^(2*n)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 385

2.2.2673 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d + ex^n)^p)}{x(f + gx^n)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log(c*(d+e*x^n)^p)^q/x/(f+g*x^n),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 386

2.2.2674 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d + ex^n)^p)}{x(f + gx^{-n})} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log(c*(d+e*x^n)^p)^q/x/(f+g/(x^n)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 387

2.2.2675 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d + ex^n)^p)}{x(f + gx^{-2n})} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(log(c*(d+e*x^n)^p)^q/x/(f+g/(x^(2*n))),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 388

2.2.2676 Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*(d+e*x^(2/3))^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 464

2.2.2677 Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right) dx = \text{Exception raised: ValueError}$$

[In] integrate(a+b*log(c*(d+e*x^(2/3))^n),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 466

2.2.2678 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex^{2/3})^n)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 468

2.2.2679 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex^{2/3})^n)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 470

2.2.2680 Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^2 dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*(d+e*x^(2/3))^n))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 476

2.2.2681 Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 477

2.2.2682 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^2}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))^2/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 478

2.2.2683 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^2}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))^2/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 479

2.2.2684 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^2}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))^2/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 480

2.2.2685 Maxima [F(-2)]

Exception generated.

$$\int x^2 (a + b \log(c(d + ex^{2/3})^n))^3 dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*(d+e*x^(2/3))^n))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 485

2.2.2686 Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^3 dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 486

2.2.2687 Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^3}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))^3/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 487

2.2.2688 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^3}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e*x^(2/3))^n))^3/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 488

2.2.2689 Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*(d+e/x^(2/3))^n)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 509

2.2.2690 Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right) dx = \text{Exception raised: ValueError}$$

[In] `integrate(a+b*log(c*(d+e/x^(2/3))^n),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 511

2.2.2691 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*log(c*(d+e/x^(2/3))^n))/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 513

2.2.2692 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log\left(c\left(d + \frac{e}{x^{2/3}}\right)^n\right)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e/x^(2/3))^n))/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 515

2.2.2693 Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log\left(c\left(d + \frac{e}{x^{2/3}}\right)^n\right) \right)^2 dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*(d+e/x^(2/3))^n))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 521

2.2.2694 Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e/x^(2/3))^n))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 522

2.2.2695 Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^2}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e/x^(2/3))^n))^2/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 523

2.2.2696 Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^3 dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*log(c*(d+e/x^(2/3))^n))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 528

2.2.2697 Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^3 dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*log(c*(d+e/x^(2/3))^n))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 529

2.2.2698 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + \frac{e}{x^{2/3}})^n))^3}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*(d+e/x^(2/3))^n))^3/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 530

2.2.2699 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + \frac{e}{x^{2/3}})^n))^3}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*log(c*(d+e/x^(2/3))^n))^3/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 531

2.2.2700 Maxima [F(-2)]

Exception generated.

$$\int \log(c(d + e(f + gx)^2)^q) dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(d+e*(g*x+f)^2)^q),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 630

2.2.2701 Maxima [F(-2)]

Exception generated.

$$\int \log\left(c\left(d + \frac{e}{(f + gx)^2}\right)^q\right) dx = \text{Exception raised: ValueError}$$

[In] integrate(log(c*(d+e/(g*x+f)^2)^q),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 633

2.2.2702 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 1

2.2.2703 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))^3}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)^3/x,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 2

2.2.2704 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))^2}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)^2/x,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

```
input file name 3_Logarithms/3.5_Logarithm_functions.txt
```

```
Test file number 64
```

```
Integral number in file 3
```

2.2.2705 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)/x,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

```
input file name 3_Logarithms/3.5_Logarithm_functions.txt
```

```
Test file number 64
```

```
Integral number in file 4
```

2.2.2706 Maxima [F(-2)]

Exception generated.

$$\int \frac{(amx^m + bnq \log^{-1+q}(cx^n))(ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a*m*x^m+b*n*q*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 16

2.2.2707 Maxima [F(-2)]

Exception generated.

$$\int \frac{(amx^m + bnq \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^2}{x} dx$$

= Exception raised: RuntimeError

[In] integrate((a*m*x^m+b*n*q*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^2/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 17

2.2.2708 Maxima [F(-2)]

Exception generated.

$$\int \frac{(amx^m + bnq \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))}{x} dx$$

= Exception raised: RuntimeError

[In] integrate((a*m*x^m+b*n*q*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 18

2.2.2709 Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n))(ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 30

2.2.2710 Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n))(ax^m + b \log^q(cx^n))^3}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^3/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 31

2.2.2711 Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^2}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^2/x,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 32

2.2.2712 Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)/x,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 33

2.2.2713 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x(d\sqrt{-\frac{e}{d}}+ex)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(2*x*(e*x+d*(-e/d)^(1/2))/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 40

2.2.2714 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x(d\sqrt{-\frac{e}{d}}-ex)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(-2*x*(-e*x+d*(-e/d)^(1/2))/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 41

2.2.2715 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x\left(\frac{d\sqrt{e}}{\sqrt{-d}}+ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(2*x*(e*x+d*e^(1/2)/(-d)^(1/2))/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 42

2.2.2716 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x\left(\frac{d\sqrt{e}}{\sqrt{-d}}-ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(-2*x*(-e*x+d*e^(1/2)/(-d)^(1/2))/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 43

2.2.2717 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x(\sqrt{d}\sqrt{-e+ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(2*x*(e*x+d^(1/2))*(-e)^(1/2))/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 44

2.2.2718 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x(\sqrt{d}\sqrt{-e-ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(-2*x*(-e*x+d^(1/2))*(-e)^(1/2))/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 45

2.2.2719 Maxima [F(-2)]

Exception generated.

$$\int x^4 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 71

2.2.2720 Maxima [F(-2)]

Exception generated.

$$\int x^3 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 72

2.2.2721 Maxima [F(-2)]

Exception generated.

$$\int x^2 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 73

2.2.2722 Maxima [F(-2)]

Exception generated.

$$\int x \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 74

2.2.2723 Maxima [F(-2)]

Exception generated.

$$\int \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] `integrate(log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 75

2.2.2724 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(log(d*(c*x^2+b*x+a)^n)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 77

2.2.2725 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 78

2.2.2726 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 79

2.2.2727 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a+bx+cx^2)^n)}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 80

2.2.2728 Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^4 \log(d(a+bx+cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^4*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 82

2.2.2729 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^3*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more data

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 83

2.2.2730 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x+d)^2*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more data

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 84

2.2.2731 Maxima [F(-2)]

Exception generated.

$$\int (d + ex) \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more data

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 85

2.2.2732 Maxima [F(-2)]

Exception generated.

$$\int \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] `integrate(log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more data

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 86

2.2.2733 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a+bx+cx^2)^n)}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 88

2.2.2734 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a+bx+cx^2)^n)}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 89

2.2.2735 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)/(e*x+d)^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 90

2.2.2736 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)/(e*x+d)^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 91

2.2.2737 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a+bx+cx^2)^n)}{ae+be+ce^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)/(c*e*x^2+b*e*x+a*e),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 93

2.2.2738 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(g(a+bx+cx^2)^n)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(g*(c*x^2+b*x+a)^n)/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 94

2.2.2739 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(g(a + bx + cx^2)^n)}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(log(g*(c*x^2+b*x+a)^n)/(f*x^2+e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 95

2.2.2740 Maxima [F(-2)]

Exception generated.

$$\int \log^2(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

[In] integrate(log(d*(c*x^2+b*x+a)^n)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 97

2.2.2741 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(ax^n)^p}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((log(a*x^n)^2)^p/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 149

2.2.2742 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^m(ax^n)^p}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((log(a*x^n)^m)^p/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 150

2.2.2743 Maxima [F(-2)]

Exception generated.

$$\int \frac{(b \log^m(ax^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*log(a*x^n)^m)^p/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 152

2.2.2744 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^3/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 163

2.2.2745 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^2/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 164

2.2.2746 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)/(a+b*sin(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 165

2.2.2747 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^3/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 168

2.2.2748 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^2/(a+b*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 169

2.2.2749 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)/(a+b*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 170

2.2.2750 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)^3*sin(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 191

2.2.2751 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)^2*sin(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 192

2.2.2752 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)*sin(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 193

2.2.2753 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c+dx)}{(e+fx)(a+a\sin(c+dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(d*x+c)^3/(f*x+e)/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 195

2.2.2754 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c+dx)}{(e+fx)^2(a+a\sin(c+dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(d*x+c)^3/(f*x+e)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 196

2.2.2755 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \csc^2(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)^3*csc(d*x+c)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 203

2.2.2756 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \csc^2(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)^2*csc(d*x+c)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 204

2.2.2757 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \csc^2(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)*csc(d*x+c)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 205

2.2.2758 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c+dx)}{(e+fx)(a+a\sin(c+dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(d*x+c)^2/(f*x+e)/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 207

2.2.2759 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c+dx)}{(e+fx)^2(a+a\sin(c+dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(d*x+c)^2/(f*x+e)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 208

2.2.2760 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 220

2.2.2761 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 221

2.2.2762 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x+e)*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 222

2.2.2763 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 223

2.2.2764 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^3*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 224

2.2.2765 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^2*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 225

2.2.2766 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 226

2.2.2767 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 227

2.2.2768 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^3*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 228

2.2.2769 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^2*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 229

2.2.2770 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x+e)*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 230

2.2.2771 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 231

2.2.2772 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 232

2.2.2773 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 233

2.2.2774 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x+e)*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 234

2.2.2775 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 235

2.2.2776 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 236

2.2.2777 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 237

2.2.2778 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((f*x+e)*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 238

2.2.2779 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 239

2.2.2780 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 245

2.2.2781 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 246

2.2.2782 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^3*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 247

2.2.2783 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 248

2.2.2784 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^2*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 249

2.2.2785 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^3*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 250

2.2.2786 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sec^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^3*sec(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 281

2.2.2787 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sec^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^2*sec(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 282

2.2.2788 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sec^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)*sec(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 283

2.2.2789 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(e + fx)(a + a \sin(c + dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sec(d*x+c)^3/(f*x+e)/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 285

2.2.2790 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(e + fx)^2(a + a \sin(c + dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sec(d*x+c)^3/(f*x+e)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 286

2.2.2791 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^m \sec(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)^m*sec(d*x+c)/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 292

2.2.2792 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^m \sec^2(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)^m*sec(d*x+c)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 293

2.2.2793 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*cos(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 294

2.2.2794 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*cos(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 295

2.2.2795 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 296

2.2.2796 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)³*cos(d*x+c)²/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b²-4*a²>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 298

2.2.2797 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)²*cos(d*x+c)²/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b²-4*a²>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sinⁿ.txt

Test file number 66

Integral number in file 299

2.2.2798 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 300

2.2.2799 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 301

2.2.2800 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^3*cos(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-ⁿ.txt

Test file number 66

Integral number in file 302

2.2.2801 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^2*cos(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-ⁿ.txt

Test file number 66

Integral number in file 303

2.2.2802 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 304

2.2.2803 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sec(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*sec(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 306

2.2.2804 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sec(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*sec(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 307

2.2.2805 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sec(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*sec(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 308

2.2.2806 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 310

2.2.2807 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 311

2.2.2808 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 312

2.2.2809 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 313

2.2.2810 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 319

2.2.2811 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*cos(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 320

2.2.2812 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*cos(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 321

2.2.2813 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 322

2.2.2814 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*cos(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 323

2.2.2815 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*cos(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 324

2.2.2816 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 325

2.2.2817 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 326

2.2.2818 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 327

2.2.2819 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 328

2.2.2820 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^2(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^3*cos(d*x+c)^2*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 329

2.2.2821 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^2(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^2*cos(d*x+c)^2*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 330

2.2.2822 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^2(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)^2*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 331

2.2.2823 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 333

2.2.2824 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)^2*cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 334

2.2.2825 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((f*x+e)*cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 335

2.2.2826 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 336

2.2.2827 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*cos(d*x+c)*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 337

2.2.2828 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*cos(d*x+c)*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 338

2.2.2829 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 339

2.2.2830 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^3*cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 341

2.2.2831 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)^2*cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 342

2.2.2832 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)*cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 343

2.2.2833 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x^m-a+b_sin^n.txt

Test file number 66

Integral number in file 344

2.2.2834 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^3(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^3*cos(d*x+c)^3*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-ⁿ.txt

Test file number 66

Integral number in file 345

2.2.2835 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^3(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^2*cos(d*x+c)^3*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-ⁿ.txt

Test file number 66

Integral number in file 346

2.2.2836 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^3(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)*cos(d*x+c)^3*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txt

Test file number 66

Integral number in file 347

2.2.2837 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \sin(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(a+b*sin(d*x^2+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x-^m-a+b_sin-c+d_x-^n-^p.txt

Test file number 69

Integral number in file 44

2.2.2838 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + b \sin(c + dx^3))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5/(a+b*sin(d*x^3+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_x^n-p.txt

Test file number 69

Integral number in file 89

2.2.2839 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \sin(c + dx^3))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a+b*sin(d*x^3+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_x^n-p.txt

Test file number 69

Integral number in file 93

2.2.2840 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + b \sin(c + dx^3))^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x^2/(a+b*sin(d*x^3+c))^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_x^n-p.txt

Test file number 69

Integral number in file 94

2.2.2841 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-p-a+b_sin-m.txt

Test file number 70

Integral number in file 431

2.2.2842 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 432

2.2.2843 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 433

2.2.2844 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 434

2.2.2845 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 435

2.2.2846 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^6(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 436

2.2.2847 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 444

2.2.2848 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 445

2.2.2849 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 446

2.2.2850 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 447

2.2.2851 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 448

2.2.2852 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 456

2.2.2853 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 457

2.2.2854 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 458

2.2.2855 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 459

2.2.2856 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 460

2.2.2857 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^8(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^8/(a+b*sin(d*x+c))^8,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 467

2.2.2858 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6/(a+b*sin(d*x+c))^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 468

2.2.2859 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4/(a+b*sin(d*x+c))^8,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 469

2.2.2860 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 470

2.2.2861 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^2/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos^p-a+b_sin^m.txt

Test file number 70

Integral number in file 471

2.2.2862 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^4/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 472

2.2.2863 Maxima [F(-2)]

Exception generated.

$$\int \sec(c + dx) \sqrt{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)*(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 476

2.2.2864 Maxima [F(-2)]

Exception generated.

$$\int \sec^3(c + dx) \sqrt{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3*(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 477

2.2.2865 Maxima [F(-2)]

Exception generated.

$$\int \sec^5(c + dx) \sqrt{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^5*(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 478

2.2.2866 Maxima [F(-2)]

Exception generated.

$$\int \sec(c + dx)(a + b \sin(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)*(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 486

2.2.2867 Maxima [F(-2)]

Exception generated.

$$\int \sec^3(c + dx)(a + b \sin(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3*(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 487

2.2.2868 Maxima [F(-2)]

Exception generated.

$$\int \sec^5(c + dx)(a + b \sin(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^5*(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 488

2.2.2869 Maxima [F(-2)]

Exception generated.

$$\int \sec(c + dx)(a + b \sin(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 497

2.2.2870 Maxima [F(-2)]

Exception generated.

$$\int \sec^3(c + dx)(a + b \sin(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more
detail
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 498

2.2.2871 Maxima [F(-2)]

Exception generated.

$$\int \sec^5(c + dx)(a + b \sin(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^5*(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more
detail
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 499

2.2.2872 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{\sqrt{a + b \sin(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 509

2.2.2873 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{\sqrt{a + b \sin(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3/(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 510

2.2.2874 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{\sqrt{a + b \sin(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^5/(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 511

2.2.2875 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sin(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 519

2.2.2876 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sin(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3/(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 520

2.2.2877 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sin(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^5/(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 521

2.2.2878 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sin(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 530

2.2.2879 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sin(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3/(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-[^]p-a+b_sin-[^]m.txt

Test file number 70

Integral number in file 531

2.2.2880 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sin(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^5/(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.1_Sine/4.1.1.2-g_cos-^p-a+b_sin-^m.txt

Test file number 70

Integral number in file 532

2.2.2881 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan-^p-a+b_sin-^m.txt

Test file number 72

Integral number in file 176

2.2.2882 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 177

2.2.2883 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 178

2.2.2884 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 179

2.2.2885 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 180

2.2.2886 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(tan(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan-⁴p-a+b_sin-²m.txt

Test file number 72

Integral number in file 187

2.2.2887 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(tan(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan-²p-a+b_sin-²m.txt

Test file number 72

Integral number in file 188

2.2.2888 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 189

2.2.2889 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 190

2.2.2890 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(d*x+c)^6/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 191

2.2.2891 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 198

2.2.2892 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan-^p-a+b_sin-^m.txt

Test file number 72

Integral number in file 199

2.2.2893 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan-^p-a+b_sin-^m.txt

Test file number 72

Integral number in file 200

2.2.2894 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 201

2.2.2895 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(d*x+c)^6/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan^p-a+b_sin^m.txt

Test file number 72

Integral number in file 202

2.2.2896 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^4/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 176

2.2.2897 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^3/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 177

2.2.2898 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^2/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 178

2.2.2899 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 179

2.2.2900 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 180

2.2.2901 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 181

2.2.2902 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(x)^2/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 182

2.2.2903 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(x)^3/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 183

2.2.2904 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(x)^4/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 184

2.2.2905 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^4/(a+b*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 185

2.2.2906 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^3/(a+b*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 186

2.2.2907 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^2/(a+b*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 187

2.2.2908 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)/(a+b*sin(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 188

2.2.2909 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 189

2.2.2910 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)/(a+b*sin(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 190

2.2.2911 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)^2/(a+b*sin(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 191

2.2.2912 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(x)^3/(a+b*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 192

2.2.2913 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^5/(a+b*sin(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 193

2.2.2914 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^4/(a+b*sin(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 194

2.2.2915 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^3/(a+b*sin(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 195

2.2.2916 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^2/(a+b*sin(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 196

2.2.2917 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)/(a+b*sin(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 197

2.2.2918 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 198

2.2.2919 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)/(a+b*sin(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 199

2.2.2920 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)^2/(a+b*sin(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 200

2.2.2921 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)^3/(a+b*sin(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 201

2.2.2922 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 202

2.2.2923 Maxima [F(-2)]

Exception generated.

$$\int \frac{3 + 3 \sin(e + fx)}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+a*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 430

2.2.2924 Maxima [F(-2)]

Exception generated.

$$\int \frac{3 + 3 \sin(e + fx)}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 431

2.2.2925 Maxima [F(-2)]

Exception generated.

$$\int \frac{3 + 3 \sin(e + fx)}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 432

2.2.2926 Maxima [F(-2)]

Exception generated.

$$\int \frac{3 + 3 \sin(e + fx)}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))/(c+d*sin(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 433

2.2.2927 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^2}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 439

2.2.2928 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^2}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 440

2.2.2929 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^2}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 441

2.2.2930 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^2}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 442

2.2.2931 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^2}{(c + d \sin(e + fx))^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 443

2.2.2932 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^3}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 448

2.2.2933 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^3}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 449

2.2.2934 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^3}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 450

2.2.2935 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^3}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 451

2.2.2936 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^3}{(c + d \sin(e + fx))^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 452

2.2.2937 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+a*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 458

2.2.2938 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+a*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 459

2.2.2939 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+a*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 460

2.2.2940 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))^2 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 467

2.2.2941 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))^2 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 468

2.2.2942 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))^2 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 469

2.2.2943 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))^3 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 477

2.2.2944 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))^3 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 478

2.2.2945 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))^3 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 479

2.2.2946 Maxima [F(-2)]

Exception generated.

$$\int \frac{3 + b \sin(e + fx)}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 675

2.2.2947 Maxima [F(-2)]

Exception generated.

$$\int \frac{3 + b \sin(e + fx)}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 676

2.2.2948 Maxima [F(-2)]

Exception generated.

$$\int \frac{3 + b \sin(e + fx)}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 677

2.2.2949 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + b \sin(e + fx))^2}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 682

2.2.2950 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + b \sin(e + fx))^2}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 683

2.2.2951 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + b \sin(e + fx))^2}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 684

2.2.2952 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + b \sin(e + fx))^2}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 685

2.2.2953 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + b \sin(e + fx))^3}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 690

2.2.2954 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + b \sin(e + fx))^3}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 691

2.2.2955 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + b \sin(e + fx))^3}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 692

2.2.2956 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + b \sin(e + fx))^3}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 693

2.2.2957 Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{bB}{3} + B \sin(x)}{3 + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*B/a+B*sin(x))/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 694

2.2.2958 Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{3B}{b} + B \sin(x)}{3 + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*B/b+B*sin(x))/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 695

2.2.2959 Maxima [F(-2)]

Exception generated.

$$\int \frac{3 + b \sin(x)}{(b + 3 \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(x))/(b+a*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 696

2.2.2960 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^4}{3 + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sin(f*x+e))^4/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 698

2.2.2961 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{3 + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sin(f*x+e))^3/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 699

2.2.2962 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{3 + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sin(f*x+e))^2/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 700

2.2.2963 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{3 + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sin(f*x+e))/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 701

2.2.2964 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{3 + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 702

2.2.2965 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 703

2.2.2966 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 704

2.2.2967 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 705

2.2.2968 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^4}{(3 + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*sin(f*x+e))^4/(a+b*sin(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 706

2.2.2969 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{(3 + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*sin(f*x+e))^3/(a+b*sin(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 707

2.2.2970 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{(3 + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sin(f*x+e))^2/(a+b*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 708

2.2.2971 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{(3 + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sin(f*x+e))/(a+b*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 709

2.2.2972 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 710

2.2.2973 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))^2(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 711

2.2.2974 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))^2 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 712

2.2.2975 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))^2 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 713

2.2.2976 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^5}{(3 + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*sin(f*x+e))^5/(a+b*sin(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 714

2.2.2977 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^4}{(3 + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*sin(f*x+e))^4/(a+b*sin(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 715

2.2.2978 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{(3 + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*sin(f*x+e))^3/(a+b*sin(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 716

2.2.2979 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{(3 + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*sin(f*x+e))^2/(a+b*sin(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 717

2.2.2980 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{(3 + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sin(f*x+e))/(a+b*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 718

2.2.2981 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 719

2.2.2982 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))^3 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 720

2.2.2983 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))^3 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 721

2.2.2984 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + b \sin(e + fx))^3 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-ⁿ.txt

Test file number 73

Integral number in file 722

2.2.2985 Maxima [F(-2)]

Exception generated.

$$\int (g \cos(e + fx))^{-1-m-n} (a + a \sin(e + fx))^m (c - c \sin(e + fx))^{-1+n} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*cos(f*x+e))(-1-m-n)*(a+a*sin(f*x+e))m*(c-c*sin(f*x+e))(-1+n)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos-^p-a+b_sin-^m-c+d_sin-ⁿ.txt

Test file number 74

Integral number in file 186

2.2.2986 Maxima [F(-2)]

Exception generated.

$$\int (g \cos(e + fx))^{-1-m-n} (a + a \sin(e + fx))^m (c - c \sin(e + fx))^{-2+n} dx$$

= Exception raised: RuntimeError

```
[In] integrate((g*cos(f*x+e))(-1-m-n)*(a+a*sin(f*x+e))m*(c-c*sin(f*x+e))(-2+n)
),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos[^]p-a+b_sin[^]m-c+d_sin[^]n.txt

Test file number 74

Integral number in file 187

2.2.2987 Maxima [F(-2)]

Exception generated.

$$\int (g \cos(e + fx))^{-1-m-n} (a + a \sin(e + fx))^m (c - c \sin(e + fx))^{-3+n} dx$$

= Exception raised: RuntimeError

```
[In] integrate((g*cos(f*x+e))(-1-m-n)*(a+a*sin(f*x+e))m*(c-c*sin(f*x+e))(-3+n)
),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos[^]p-a+b_sin[^]m-c+d_sin[^]n.txt

Test file number 74

Integral number in file 188

2.2.2988 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1078

2.2.2989 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1079

2.2.2990 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1080

2.2.2991 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1081

2.2.2992 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1082

2.2.2993 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1083

2.2.2994 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1084

2.2.2995 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1085

2.2.2996 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1086

2.2.2997 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1087

2.2.2998 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1088

2.2.2999 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1089

2.2.3000 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1090

2.2.3001 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*sin(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1127

2.2.3002 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*sin(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1128

2.2.3003 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1129

2.2.3004 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1130

2.2.3005 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1131

2.2.3006 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1132

2.2.3007 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1133

2.2.3008 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^5/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1134

2.2.3009 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*sin(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1135

2.2.3010 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*sin(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1136

2.2.3011 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1137

2.2.3012 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1138

2.2.3013 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1139

2.2.3014 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1140

2.2.3015 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1141

2.2.3016 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^5/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1142

2.2.3017 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*sin(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1256

2.2.3018 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*sin(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1257

2.2.3019 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1258

2.2.3020 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1259

2.2.3021 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \cot^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1260

2.2.3022 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1261

2.2.3023 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1262

2.2.3024 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^5(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^5/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1263

2.2.3025 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^6/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1264

2.2.3026 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^7/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1265

2.2.3027 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*sin(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1266

2.2.3028 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*sin(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1267

2.2.3029 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1268

2.2.3030 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1269

2.2.3031 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \cot^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1270

2.2.3032 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1271

2.2.3033 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1272

2.2.3034 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^5(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^5/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1273

2.2.3035 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^6/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1274

2.2.3036 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c+dx) \csc^2(c+dx)}{(a+b\sin(c+dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*csc(d*x+c)^8/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1275

2.2.3037 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c+dx) \sin^4(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*sin(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1285

2.2.3038 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1286

2.2.3039 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1287

2.2.3040 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1288

2.2.3041 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1289

2.2.3042 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1290

2.2.3043 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*csc(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1291

2.2.3044 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c+dx) \csc^2(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2*csc(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1292

2.2.3045 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c+dx) \csc^3(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2*csc(d*x+c)^5/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1293

2.2.3046 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c+dx) \csc^4(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*csc(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1294

2.2.3047 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c+dx) \sin^3(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1301

2.2.3048 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c+dx) \sin^2(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1302

2.2.3049 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c+dx) \sin(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1303

2.2.3050 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1304

2.2.3051 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1305

2.2.3052 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1306

2.2.3053 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*csc(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1307

2.2.3054 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx) \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*csc(d*x+c)^5/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1308

2.2.3055 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx) \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*csc(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1309

2.2.3056 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c+dx) \sin^3(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1320

2.2.3057 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c+dx) \sin^2(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1321

2.2.3058 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1322

2.2.3059 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1323

2.2.3060 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c+dx) \cot^2(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^6*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1324

2.2.3061 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c+dx) \cot^3(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^6*csc(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1325

2.2.3062 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1326

2.2.3063 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^5(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^5/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1327

2.2.3064 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1328

2.2.3065 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c+dx) \csc(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^6*csc(d*x+c)^7/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1329

2.2.3066 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c+dx) \csc^2(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*csc(d*x+c)^8/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1330

2.2.3067 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c+dx) \csc^3(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^6*csc(d*x+c)^9/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1331

2.2.3068 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c + dx) \tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*sin(d*x+c)^5/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1338

2.2.3069 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx) \tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*sin(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1339

2.2.3070 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(c+dx)\tan^2(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1340

2.2.3071 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1341

2.2.3072 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) \tan(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1342

2.2.3073 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx) \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1343

2.2.3074 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c+dx) \sec^2(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^2*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1344

2.2.3075 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(c+dx) \sec^2(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^3*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1345

2.2.3076 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4*sin(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1352

2.2.3077 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) \tan^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1353

2.2.3078 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) \tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1354

2.2.3079 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) \tan(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1355

2.2.3080 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx) \sec^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)*sec(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1356

2.2.3081 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx) \sec^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^2*sec(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1357

2.2.3082 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(c + dx) \sec^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(d*x+c)^3*sec(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1358

2.2.3083 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{g \cos(e + fx)} \csc^2(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(csc(f*x+e)^2*(g*cos(f*x+e))^(1/2)/(a+b*sin(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1375

2.2.3084 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{g \cos(e + fx)} \csc^3(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(f*x+e)^3*(g*cos(f*x+e))^(1/2)/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1376

2.2.3085 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{3/2} \csc^2(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*cos(f*x+e))^(3/2)*csc(f*x+e)^2/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1381

2.2.3086 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{3/2} \csc^3(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*cos(f*x+e))^(3/2)*csc(f*x+e)^3/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1382

2.2.3087 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{5/2} \csc^2(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*cos(f*x+e))^(5/2)*csc(f*x+e)^2/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1387

2.2.3088 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{5/2} \csc^3(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*cos(f*x+e))^(5/2)*csc(f*x+e)^3/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1388

2.2.3089 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(e + fx)}{\sqrt{g \cos(e + fx)}(a + b \sin(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(f*x+e)^2/(a+b*sin(f*x+e))/(g*cos(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1394

2.2.3090 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(e + fx)}{\sqrt{g \cos(e + fx)}(a + b \sin(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(f*x+e)^3/(a+b*sin(f*x+e))/(g*cos(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1395

2.2.3091 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(e + fx)}{(g \cos(e + fx))^{3/2}(a + b \sin(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(f*x+e)^2/(g*cos(f*x+e))^(3/2)/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1401

2.2.3092 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(e + fx)}{(g \cos(e + fx))^{5/2}(a + b \sin(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(f*x+e)^2/(g*cos(f*x+e))^(5/2)/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1407

2.2.3093 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx) \tan^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1464

2.2.3094 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(c + dx) \tan^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1465

2.2.3095 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1466

2.2.3096 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) \tan(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1467

2.2.3097 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)*sec(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1468

2.2.3098 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c+dx) \sec^2(c+dx)}{(a+b \sin(c+dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^2*sec(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1469

2.2.3099 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(c+dx) \sec^2(c+dx)}{(a+b \sin(c+dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^3*sec(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1470

2.2.3100 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx) \tan^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*sin(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1471

2.2.3101 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(c + dx) \tan^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1472

2.2.3102 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1473

2.2.3103 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) \tan(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1474

2.2.3104 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)*sec(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1475

2.2.3105 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^2*sec(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1476

2.2.3106 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^3*sec(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1477

2.2.3107 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(c + d \sin(e + fx))^{4/3}}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(f*x+e)^2*(c+d*sin(f*x+e))^(4/3)/(a+b*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 1519

2.2.3108 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(e + fx)}{(a + b \sin(e + fx))^2(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)^2/(a+b*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.2.3-g_sin^p-a+b_sin^m-c+d_sin^n.txt

Test file number 75

Integral number in file 39

2.2.3109 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(e + fx)(A + B \sin(e + fx))}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)^2*(A+B*sin(f*x+e))/(a+b*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin^m-c+d_sin^n-A+B_sin^p.txt

Test file number 76

Integral number in file 16

2.2.3110 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-.txt

Test file number 76

Integral number in file 248

2.2.3111 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-.txt

Test file number 76

Integral number in file 249

2.2.3112 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-
.txt

Test file number 76

Integral number in file 250

2.2.3113 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2(A + B \sin(e + fx))}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-
.txt

Test file number 76

Integral number in file 255

2.2.3114 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-.txt

Test file number 76

Integral number in file 256

2.2.3115 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-.txt

Test file number 76

Integral number in file 257

2.2.3116 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin^m-c+d_sin^n-A+B_sin.txt

Test file number 76

Integral number in file 262

2.2.3117 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin^m-c+d_sin^n-A+B_sin.txt

Test file number 76

Integral number in file 263

2.2.3118 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-^n-A+B_sin-.txt

Test file number 76

Integral number in file 264

2.2.3119 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-^n-A+B_sin-.txt

Test file number 76

Integral number in file 269

2.2.3120 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-
.txt

Test file number 76

Integral number in file 270

2.2.3121 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-
.txt

Test file number 76

Integral number in file 271

2.2.3122 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-
.txt

Test file number 76

Integral number in file 276

2.2.3123 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorith
m="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-
.txt

Test file number 76

Integral number in file 277

2.2.3124 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-.txt

Test file number 76

Integral number in file 278

2.2.3125 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-.txt

Test file number 76

Integral number in file 283

2.2.3126 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-.txt

Test file number 76

Integral number in file 284

2.2.3127 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-ⁿ-A+B_sin-.txt

Test file number 76

Integral number in file 285

2.2.3128 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^2 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-^m-c+d_sin-^n-A+B_sin-.txt

Test file number 76

Integral number in file 352

2.2.3129 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(c + dx)}{a + b \sin^3(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(d*x+c)^5/(a+b*sin(d*x+c)^3),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt

Test file number 79

Integral number in file 188

2.2.3130 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(c + dx)}{a + b \sin^3(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(csc(d*x+c)^4/(a+b*sin(d*x+c)^3),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 194

2.2.3131 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{a + b \sin^3(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(sec(d*x+c)^4/(a+b*sin(d*x+c)^3),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 392

2.2.3132 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^4/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 399

2.2.3133 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^2/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 400

2.2.3134 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 401

2.2.3135 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sec(d*x+c)^2/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt

Test file number 79

Integral number in file 402

2.2.3136 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sec(d*x+c)^4/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt

Test file number 79

Integral number in file 403

2.2.3137 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(x))/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.8-a+b_sin-^m-c+d_trig-ⁿ.txt

Test file number 80

Integral number in file 1

2.2.3138 Maxima [F(-2)]

Exception generated.

$$\int \frac{b+c+\cos(x)}{a+b\sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((b+c+cos(x))/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.8-a+b_sin-^m-c+d_trig-ⁿ.txt

Test file number 80

Integral number in file 4

2.2.3139 Maxima [F(-2)]

Exception generated.

$$\int \frac{b+c+\cos(x)}{a-b\sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((b+c+cos(x))/(a-b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.8-a+b_sin-[^]m-c+d_trig-[^]n.txt

Test file number 80

Integral number in file 5

2.2.3140 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*tan(x))/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested a dditional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.8-a+b_sin-[^]m-c+d_trig-[^]n.txt

Test file number 80

Integral number in file 6

2.2.3141 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cot(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cot(x))/(a+b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested a dditional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.8-a+b_sin-[^]m-c+d_trig-[^]n.txt

Test file number 80

Integral number in file 7

2.2.3142 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*sec(x))/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.8-a+b_sin-[^]m-c+d_trig-[^]n.txt

Test file number 80

Integral number in file 8

2.2.3143 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \csc(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*csc(x))/(a+b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.1_Sine/4.1.8-a+b_sin-[^]m-c+d_trig-[^]n.txt

Test file number 80

Integral number in file 9

2.2.3144 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(x)}{a + b \sin(x) + c \sin^2(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(x)^3/(a+b*sin(x)+c*sin(x)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.9_trig^m-a+b_sin^n+c_sin^-2_n-^p.txt

Test file number 81

Integral number in file 9

2.2.3145 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(x)}{a + b \sin(x) + c \sin^2(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(x)/(a+b*sin(x)+c*sin(x)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.9_trig^m-a+b_sin^n+c_sin^-2_n-^p.txt

Test file number 81

Integral number in file 11

2.2.3146 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(x)}{a + b \sin(x) + c \sin^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(x)/(a+b*sin(x)+c*sin(x)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.9_trig^m-a+b_sin^n+c_sin^-2_n-^p.txt

Test file number 81

Integral number in file 12

2.2.3147 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(x)}{a + b \sin(x) + c \sin^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(x)^3/(a+b*sin(x)+c*sin(x)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.1_Sine/4.1.9_trig^m-a+b_sin^n+c_sin^-2_n-^p.txt

Test file number 81

Integral number in file 14

2.2.3148 Maxima [F(-2)]

Exception generated.

$$\int (c \cos^m(a + bx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((c*cos(b*x+a)^m)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: BINDING-STACK overflow at size 10240. Stack can probably be resized.Proceed with caution.

input file name 4_Trig_functions/4.2_Cosine/4.2.0-a_cos^m-b_trg^n.txt

Test file number 82

Integral number in file 59

2.2.3149 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x^m-a+b_cos^n.txt

Test file number 83

Integral number in file 185

2.2.3150 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 186

2.2.3151 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 187

2.2.3152 Maxima [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x+e)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.10-c+d_x-^m-a+b_cos-^n.txt

Test file number 83

Integral number in file 189

2.2.3153 Maxima [F(-2)]

Exception generated.

$$\int x^{5/2} \cos(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^(5/2)*cos(b*x^2+a),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x-^m-a+b_cos-c+d_x-^n-^p.txt

Test file number 85

Integral number in file 23

2.2.3154 Maxima [F(-2)]

Exception generated.

$$\int x^{3/2} \cos(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^(3/2)*cos(b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_x^n^p.txt

Test file number 85

Integral number in file 24

2.2.3155 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{x} \cos(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^(1/2)*cos(b*x^2+a),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_x^n^p.txt

Test file number 85

Integral number in file 25

2.2.3156 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(a + bx^2)}{\sqrt{x}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(b*x^2+a)/x^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-t
o-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_xⁿ-p.txt

Test file number 85

Integral number in file 26

2.2.3157 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(a + bx^2)}{x^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(b*x²+a)/x^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-t
o-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_xⁿ-p.txt

Test file number 85

Integral number in file 27

2.2.3158 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(a + bx^2)}{x^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(b*x²+a)/x^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-t
o-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_xⁿ-p.txt

Test file number 85

Integral number in file 28

2.2.3159 Maxima [F(-2)]

Exception generated.

$$\int x^{5/2} \cos^2(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^(5/2)*cos(b*x^2+a)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_x^n^p.txt

Test file number 85

Integral number in file 29

2.2.3160 Maxima [F(-2)]

Exception generated.

$$\int x^{3/2} \cos^2(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^(3/2)*cos(b*x^2+a)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_x^n^p.txt

Test file number 85

Integral number in file 30

2.2.3161 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{x} \cos^2(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^(1/2)*cos(b*x^2+a)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-t
o-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_x^n^p.txt

Test file number 85

Integral number in file 31

2.2.3162 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(a + bx^2)}{\sqrt{x}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(b*x^2+a)^2/x^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-t
o-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_x^n^p.txt

Test file number 85

Integral number in file 32

2.2.3163 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(a + bx^2)}{x^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(b*x^2+a)^2/x^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-t
o-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_x^n^p.txt

Test file number 85

Integral number in file 33

2.2.3164 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(a + bx^2)}{x^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(b*x^2+a)^2/x^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name 4_Trig_functions/4.2_Cosine/4.2.12-e_x^m-a+b_cos-c+d_x^n^p.txt

Test file number 85

Integral number in file 34

2.2.3165 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^4/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.1.2-g_sin^p-a+b_cos^m.txt

Test file number 86

Integral number in file 24

2.2.3166 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^2/(a+b*cos(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.1.2-g_sin^p-a+b_cos^m.txt

Test file number 86

Integral number in file 26

2.2.3167 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cos(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.1.2-g_sin^p-a+b_cos^m.txt

Test file number 86

Integral number in file 28

2.2.3168 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(x)^2/(a+b*cos(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.1.2-g_sin^p-a+b_cos^m.txt

Test file number 86

Integral number in file 30

2.2.3169 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(x)^4/(a+b*cos(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.1.2-g_sin^p-a+b_cos^m.txt

Test file number 86

Integral number in file 32

2.2.3170 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(x)^4/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.1.3-g_tan^p-a+b_cos^m.txt

Test file number 88

Integral number in file 10

2.2.3171 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(x)^2/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.1.3-g_tan^p-a+b_cos^m.txt

Test file number 88

Integral number in file 12

2.2.3172 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)^2/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.1.3-g_tan^p-a+b_cos^m.txt

Test file number 88

Integral number in file 15

2.2.3173 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)^4/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.1.3-g_tan^p-a+b_cos^m.txt

Test file number 88

Integral number in file 17

2.2.3174 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 138

2.2.3175 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{3/2}(c + dx)(a + a \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/cos(d*x+c)^(3/2)/(a+a*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 196

2.2.3176 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^5/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b*cos^m-c+d*cosⁿ.txt

Test file number 89

Integral number in file 449

2.2.3177 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c+dx)}{a+b\cos(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b*cos^m-c+d*cosⁿ.txt

Test file number 89

Integral number in file 450

2.2.3178 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c+dx)}{a+b\cos(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos[^]m-c+d_cos[^]n.txt

Test file number 89

Integral number in file 451

2.2.3179 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos[^]m-c+d_cos[^]n.txt

Test file number 89

Integral number in file 452

2.2.3180 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos[^]m-c+d_cos[^]n.txt

Test file number 89

Integral number in file 453

2.2.3181 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cos(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 454

2.2.3182 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 455

2.2.3183 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 456

2.2.3184 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 457

2.2.3185 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 458

2.2.3186 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^5/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 459

2.2.3187 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^4/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-ⁿ.txt

Test file number 89

Integral number in file 460

2.2.3188 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-ⁿ.txt

Test file number 89

Integral number in file 461

2.2.3189 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 462

2.2.3190 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 463

2.2.3191 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 464

2.2.3192 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 465

2.2.3193 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 466

2.2.3194 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 467

2.2.3195 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 468

2.2.3196 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^5/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 469

2.2.3197 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 470

2.2.3198 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 471

2.2.3199 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 472

2.2.3200 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 473

2.2.3201 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 474

2.2.3202 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 475

2.2.3203 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-ⁿ.txt

Test file number 89

Integral number in file 476

2.2.3204 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-ⁿ.txt

Test file number 89

Integral number in file 477

2.2.3205 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^5/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 478

2.2.3206 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^4/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 479

2.2.3207 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 480

2.2.3208 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 481

2.2.3209 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 482

2.2.3210 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 483

2.2.3211 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 484

2.2.3212 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^2/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 485

2.2.3213 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{3}{2}}(c+dx)(a+b\cos(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 601

2.2.3214 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-\cos(x)}}{\sqrt{a-\cos(x)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(x))^(1/2)/(a-cos(x))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 778

2.2.3215 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\frac{1 - \cos(x)}{a - \cos(x)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(((1-cos(x))/(a-cos(x)))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 779

2.2.3216 Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{bB}{a} + B \cos(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*B/a+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 791

2.2.3217 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cos(c + dx)}{(b + a \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cos(d*x+c))/(b+a*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 792

2.2.3218 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 114

2.2.3219 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos-.txt

Test file number 92

Integral number in file 121

2.2.3220 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+a*cos(d*x+c))^(5/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos-.txt

Test file number 92

Integral number in file 122

2.2.3221 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + a \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c))/cos(d*x+c)^(3/2)/(a+a*cos(d*x+c))^3,x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos-
.txt

Test file number 92

Integral number in file 164

2.2.3222 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c + dx)}(A + B \cos(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^(1/2)*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(1/2),x, algor
ithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imagin
ary; found %i
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos-
.txt

Test file number 92

Integral number in file 192

2.2.3223 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c+dx)(A+B\cos(c+dx))}{a+b\cos(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 250

2.2.3224 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c+dx)(A+B\cos(c+dx))}{a+b\cos(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 251

2.2.3225 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-ⁿ-A+B_cos-.txt

Test file number 92

Integral number in file 252

2.2.3226 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-ⁿ-A+B_cos-.txt

Test file number 92

Integral number in file 253

2.2.3227 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 254

2.2.3228 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 255

2.2.3229 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 256

2.2.3230 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 257

2.2.3231 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c+dx)(A+B\cos(c+dx))}{(a+b\cos(c+dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 258

2.2.3232 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c+dx)(A+B\cos(c+dx))}{(a+b\cos(c+dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 259

2.2.3233 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 260

2.2.3234 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 261

2.2.3235 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b*cos-^m-c+d*cos-^n-A+B*cos-.txt

Test file number 92

Integral number in file 262

2.2.3236 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b*cos-^m-c+d*cos-^n-A+B*cos-.txt

Test file number 92

Integral number in file 263

2.2.3237 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 264

2.2.3238 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 265

2.2.3239 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 266

2.2.3240 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 267

2.2.3241 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxi
ma")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-
.txt

Test file number 92

Integral number in file 268

2.2.3242 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-
.txt

Test file number 92

Integral number in file 269

2.2.3243 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b*cos-^m-c+d*cos-^n-A+B*cos-.txt

Test file number 92

Integral number in file 270

2.2.3244 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b*cos-^m-c+d*cos-^n-A+B*cos-.txt

Test file number 92

Integral number in file 271

2.2.3245 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 272

2.2.3246 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 273

2.2.3247 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c+dx)(A+B\cos(c+dx))}{(a+b\cos(c+dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 274

2.2.3248 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c+dx)(A+B\cos(c+dx))}{(a+b\cos(c+dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 275

2.2.3249 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 276

2.2.3250 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 277

2.2.3251 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 278

2.2.3252 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 279

2.2.3253 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 280

2.2.3254 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(aB + bB \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 281

2.2.3255 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(aB + bB \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 282

2.2.3256 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(aB + bB \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 283

2.2.3257 Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \cos(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 284

2.2.3258 Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 285

2.2.3259 Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 286

2.2.3260 Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-^m-c+d_cos-^n-A+B_cos-.txt

Test file number 92

Integral number in file 287

2.2.3261 Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 288

2.2.3262 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(aB + bB \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 289

2.2.3263 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(aB + bB \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 290

2.2.3264 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(aB + bB \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 291

2.2.3265 Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \cos(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 292

2.2.3266 Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 293

2.2.3267 Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-
.txt

Test file number 92

Integral number in file 294

2.2.3268 Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-
.txt

Test file number 92

Integral number in file 295

2.2.3269 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + b \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c))/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos-
.txt

Test file number 92

Integral number in file 381

2.2.3270 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\sqrt{a + a \cos(c + dx)} \sqrt{\sec(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c))/sec(d*x+c)^(1/2)/(a+a*cos(d*x+c))^(1/2),x, algor
ithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imagin
ary; found %i
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos-
.txt

Test file number 92

Integral number in file 526

2.2.3271 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2.txt

Test file number 94

Integral number in file 117

2.2.3272 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2.txt

Test file number 94

Integral number in file 118

2.2.3273 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorith
hm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 124

2.2.3274 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^3(c + dx)(a + a \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+a*cos(d*x+c))^3,x, algorith
hm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 169

2.2.3275 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c+dx)(A+C\cos^2(c+dx))}{\sqrt{a+a\cos(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^(3/2)*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 198

2.2.3276 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+B\cos(c+dx)+C\cos^2(c+dx))\sec^3(c+dx)}{(a+a\cos(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 416

2.2.3277 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 417

2.2.3278 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 423

2.2.3279 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 424

2.2.3280 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^3(c + dx)(a + a \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+a*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 474

2.2.3281 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c+dx)(A+B\cos(c+dx)+C\cos^2(c+dx))}{\sqrt{a+a\cos(c+dx)}} dx$$

= Exception raised: RuntimeError

```
[In] integrate(cos(d*x+c)^(3/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))
^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imagin
ary; found %i
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos+C_cos[^]2-
.txt

Test file number 94

Integral number in file 503

2.2.3282 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c+dx)(A+C\cos^2(c+dx))}{a+b\cos(c+dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="ma
xima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos+C_cos[^]2-
.txt

Test file number 94

Integral number in file 562

2.2.3283 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 563

2.2.3284 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 564

2.2.3285 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 565

2.2.3286 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 566

2.2.3287 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 567

2.2.3288 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 568

2.2.3289 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 569

2.2.3290 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 570

2.2.3291 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 571

2.2.3292 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 572

2.2.3293 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 573

2.2.3294 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 574

2.2.3295 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 575

2.2.3296 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 576

2.2.3297 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 577

2.2.3298 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 578

2.2.3299 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 579

2.2.3300 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 580

2.2.3301 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 581

2.2.3302 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 582

2.2.3303 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="
maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 583

2.2.3304 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="
maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 584

2.2.3305 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 585

2.2.3306 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 586

2.2.3307 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 587

2.2.3308 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 588

2.2.3309 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 589

2.2.3310 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 590

2.2.3311 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 591

2.2.3312 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 592

2.2.3313 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(1 - \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 593

2.2.3314 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(1 - \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 594

2.2.3315 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(1 - \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 595

2.2.3316 Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((1-cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 596

2.2.3317 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 597

2.2.3318 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 598

2.2.3319 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 599

2.2.3320 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 600

2.2.3321 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 601

2.2.3322 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 602

2.2.3323 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 603

2.2.3324 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 604

2.2.3325 Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 605

2.2.3326 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 606

2.2.3327 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 607

2.2.3328 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 608

2.2.3329 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 609

2.2.3330 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 610

2.2.3331 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 611

2.2.3332 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 612

2.2.3333 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 613

2.2.3334 Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 614

2.2.3335 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 615

2.2.3336 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 616

2.2.3337 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 617

2.2.3338 Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^4(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((1-cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 618

2.2.3339 Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a^2-b^2*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 619

2.2.3340 Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a^2-b^2*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 620

2.2.3341 Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a^2-b^2*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 621

2.2.3342 Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a^2-b^2*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 622

2.2.3343 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + b \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 725

2.2.3344 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 794

2.2.3345 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algo
rithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 795

2.2.3346 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxi
ma")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 796

2.2.3347 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 797

2.2.3348 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 798

2.2.3349 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 799

2.2.3350 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 800

2.2.3351 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 801

2.2.3352 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, al
gorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 802

2.2.3353 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 803

2.2.3354 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 804

2.2.3355 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 805

2.2.3356 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 806

2.2.3357 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 807

2.2.3358 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 808

2.2.3359 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 809

2.2.3360 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 810

2.2.3361 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 811

2.2.3362 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 812

2.2.3363 Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 813

2.2.3364 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + b \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3
,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 895

2.2.3365 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 977

2.2.3366 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 978

2.2.3367 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 979

2.2.3368 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 980

2.2.3369 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 981

2.2.3370 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 982

2.2.3371 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 983

2.2.3372 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 984

2.2.3373 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^5(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^5/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 985

2.2.3374 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 986

2.2.3375 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 987

2.2.3376 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 988

2.2.3377 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 989

2.2.3378 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b*cos^m-c+d*cos^n-A+B*cos+C*cos^2-.txt

Test file number 94

Integral number in file 990

2.2.3379 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 991

2.2.3380 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 992

2.2.3381 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 993

2.2.3382 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 994

2.2.3383 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 995

2.2.3384 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-
.txt

Test file number 94

Integral number in file 996

2.2.3385 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 997

2.2.3386 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 998

2.2.3387 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 999

2.2.3388 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1000

2.2.3389 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^4*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1001

2.2.3390 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1002

2.2.3391 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx$$

= Exception raised: ValueError

```
[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x
, algorithm="maxima")
```

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 1003

2.2.3392 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x
algorithm="maxima")
```

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 1004

2.2.3393 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1005

2.2.3394 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1006

2.2.3395 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^4,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1007

2.2.3396 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^4,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1008

2.2.3397 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c)
),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1009

2.2.3398 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c)
)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1010

2.2.3399 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1011

2.2.3400 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1012

2.2.3401 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{(a + b \cos(c + dx))^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1013

2.2.3402 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + b \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1114

2.2.3403 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\sqrt{a + a \cos(c + dx)} \sec^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)/sec(d*x+c)^(3/2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1238

2.2.3404 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\sqrt{a + a \cos(c + dx)} \sec^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/sec(d*x+c)^(3/2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 1344

2.2.3405 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*sin(x))/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 1

2.2.3406 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \sin(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b+c+sin(x))/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 4

2.2.3407 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \sin(x)}{a - b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((b+c+sin(x))/(a-b*cos(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 5

2.2.3408 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*tan(x))/(a+b*cos(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 6

2.2.3409 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cot(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cot(x))/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 7

2.2.3410 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \csc(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*csc(x))/(a+b*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 8

2.2.3411 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^4}{a + b \cos(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sec(f*x+e))^4/(a+b*cos(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos^m-c+d_trig^n.txt

Test file number 96

Integral number in file 9

2.2.3412 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^3}{a + b \cos(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sec(f*x+e))^3/(a+b*cos(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos^m-c+d_trig^n.txt

Test file number 96

Integral number in file 10

2.2.3413 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^2}{a + b \cos(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c+d*sec(f*x+e))^2/(a+b*cos(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos^m-c+d_trig^n.txt

Test file number 96

Integral number in file 11

2.2.3414 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \sec(e + fx)}{a + b \cos(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((c+d*sec(f*x+e))/(a+b*cos(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos^m-c+d_trig^n.txt

Test file number 96

Integral number in file 12

2.2.3415 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(e + fx))(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cos(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-[^]m-c+d_trig-[^]n.txt

Test file number 96

Integral number in file 13

2.2.3416 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(e + fx))(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cos(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-[^]m-c+d_trig-[^]n.txt

Test file number 96

Integral number in file 14

2.2.3417 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(e + fx))(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cos(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 15

2.2.3418 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{a + b \cos(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+b*cos(e*x+d)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 18

2.2.3419 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + b \cos(d + ex))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+b*cos(e*x+d))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 19

2.2.3420 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + b \cos(d + ex))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+b*cos(e*x+d))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos-^m-c+d_trig-^n.txt

Test file number 96

Integral number in file 20

2.2.3421 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + b \cos(d + ex))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+b*cos(e*x+d))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.8-a+b_cos^m-c+d_trig^n.txt

Test file number 96

Integral number in file 21

2.2.3422 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^5/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.9_trig^m-a+b_cos^n+c_cos^-2_n-^p.txt

Test file number 97

Integral number in file 1

2.2.3423 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^3/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.9_trig^m-a+b_cos^n+c_cos^-2_n-
^p.txt

Test file number 97

Integral number in file 2

2.2.3424 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.9_trig^m-a+b_cos^n+c_cos^-2_n-
^p.txt

Test file number 97

Integral number in file 3

2.2.3425 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.9_trig^m-a+b_cos^n+c_cos^-2_n-
^p.txt

Test file number 97

Integral number in file 4

2.2.3426 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)^3/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.2_Cosine/4.2.9_trig^m-a+b_cos^n+c_cos^-2_n-
^p.txt

Test file number 97

Integral number in file 5

2.2.3427 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^3/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tan^n.txt

Test file number 99

Integral number in file 18

2.2.3428 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^2/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tan^n.txt

Test file number 99

Integral number in file 19

2.2.3429 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tanⁿ.txt

Test file number 99

Integral number in file 20

2.2.3430 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^3/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tanⁿ.txt

Test file number 99

Integral number in file 24

2.2.3431 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^2/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tanⁿ.txt

Test file number 99

Integral number in file 25

2.2.3432 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tan^n.txt

Test file number 99

Integral number in file 26

2.2.3433 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^3/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tan^n.txt

Test file number 99

Integral number in file 29

2.2.3434 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^2/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tanⁿ.txt

Test file number 99

Integral number in file 30

2.2.3435 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.10-c+d_x^m-a+b_tanⁿ.txt

Test file number 99

Integral number in file 31

2.2.3436 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + b \tan(c + d\sqrt{x}))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/(a+b*tan(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.11-e_x^m-a+b_tan-c+d_xⁿ^p.txt

Test file number 100

Integral number in file 46

2.2.3437 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec[^]m-a+b_tan[^]n.txt

Test file number 101

Integral number in file 104

2.2.3438 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec[^]m-a+b_tan[^]n.txt

Test file number 101

Integral number in file 105

2.2.3439 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 106

2.2.3440 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 111

2.2.3441 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 112

2.2.3442 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^5/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 113

2.2.3443 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 119

2.2.3444 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 120

2.2.3445 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 121

2.2.3446 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 127

2.2.3447 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 128

2.2.3448 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^5/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 129

2.2.3449 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 137

2.2.3450 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 138

2.2.3451 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 139

2.2.3452 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 145

2.2.3453 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 146

2.2.3454 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(d*x+c)^5/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 147

2.2.3455 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 155

2.2.3456 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 156

2.2.3457 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 157

2.2.3458 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 163

2.2.3459 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 164

2.2.3460 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^5/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 165

2.2.3461 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 173

2.2.3462 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 174

2.2.3463 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 175

2.2.3464 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 183

2.2.3465 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 184

2.2.3466 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{11/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(11/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 223

2.2.3467 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 224

2.2.3468 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 225

2.2.3469 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 226

2.2.3470 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 227

2.2.3471 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 228

2.2.3472 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)(a + ia \tan(c + dx))}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec[^]m-a+b_tan[^]n.txt

Test file number 101

Integral number in file 229

2.2.3473 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2}(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec[^]m-a+b_tan[^]n.txt

Test file number 101

Integral number in file 230

2.2.3474 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{5/2}(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 231

2.2.3475 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{7/2} (a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 232

2.2.3476 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{15/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(15/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 233

2.2.3477 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{13/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*sec(d*x+c))^(13/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec[^]m-a+b_tan[^]n.txt

Test file number 101

Integral number in file 234

2.2.3478 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{11/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*sec(d*x+c))^(11/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec[^]m-a+b_tan[^]n.txt

Test file number 101

Integral number in file 235

2.2.3479 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 236

2.2.3480 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 237

2.2.3481 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 238

2.2.3482 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 239

2.2.3483 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 240

2.2.3484 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
)

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 241

2.2.3485 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 242

2.2.3486 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{5/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 243

2.2.3487 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{7/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 244

2.2.3488 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{15/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*sec(d*x+c))^(15/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 245

2.2.3489 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{13/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*sec(d*x+c))^(13/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 246

2.2.3490 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{11/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(11/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 247

2.2.3491 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 248

2.2.3492 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 249

2.2.3493 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 250

2.2.3494 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 251

2.2.3495 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 252

2.2.3496 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
)

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 253

2.2.3497 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2} (a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 254

2.2.3498 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{15/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*sec(d*x+c))^(15/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 255

2.2.3499 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{13/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*sec(d*x+c))^(13/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 256

2.2.3500 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{11/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(11/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 257

2.2.3501 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 258

2.2.3502 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 259

2.2.3503 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 260

2.2.3504 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 261

2.2.3505 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 262

2.2.3506 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \sec(e + fx))^{5/3}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*sec(f*x+e))^(5/3)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 271

2.2.3507 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{d \sec(e + fx)}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*sec(f*x+e))^(1/3)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^{^m}-a+b_tan^{^n}.txt

Test file number 101

Integral number in file 272

2.2.3508 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{d \sec(e + fx)(a + ia \tan(e + fx))}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*sec(f*x+e))^(1/3)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^{^m}-a+b_tan^{^n}.txt

Test file number 101

Integral number in file 273

2.2.3509 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \sec(e + fx))^{5/3}(a + ia \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*sec(f*x+e))^(5/3)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^{m-a+b}_tanⁿ.txt

Test file number 101

Integral number in file 274

2.2.3510 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \sec(e + fx))^{5/3}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*sec(f*x+e))^(5/3)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^{m-a+b}_tanⁿ.txt

Test file number 101

Integral number in file 275

2.2.3511 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{d \sec(e + fx)}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*sec(f*x+e))^(1/3)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^{m-a+b}_tanⁿ.txt

Test file number 101

Integral number in file 276

2.2.3512 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{d \sec(e + fx)(a + ia \tan(e + fx))^2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*sec(f*x+e))^(1/3)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 277

2.2.3513 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \sec(e + fx))^{5/3}(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*sec(f*x+e))^(5/3)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 278

2.2.3514 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 454

2.2.3515 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 455

2.2.3516 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 456

2.2.3517 Maxima [F(-2)]

Exception generated.

$$\int (d \sec(e + fx))^{2n} (a + ia \tan(e + fx))^{-2-n} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*sec(f*x+e))^(2*n)*(a+I*a*tan(f*x+e))^(2-n),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 501

2.2.3518 Maxima [F(-2)]

Exception generated.

$$\int (d \sec(e + fx))^{2n} (a + ia \tan(e + fx))^{-1-n} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*sec(f*x+e))^(2*n)*(a+I*a*tan(f*x+e))^(1-n),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 502

2.2.3519 Maxima [F(-2)]

Exception generated.

$$\int (d \sec(e + fx))^{2n} (a + ia \tan(e + fx))^{3-n} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*sec(f*x+e))^(2*n)*(a+I*a*tan(f*x+e))^(3-n),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 506

2.2.3520 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \sec(e + fx))^{5/2} (a + b \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(d*sec(f*x+e))^(5/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 609

2.2.3521 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \sec(e + fx))^{5/2} (a + b \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(d*sec(f*x+e))^(5/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 623

2.2.3522 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{7/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*cos(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 663

2.2.3523 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{5/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*cos(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 664

2.2.3524 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{3/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*cos(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 665

2.2.3525 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cos(c + dx)}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*cos(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 666

2.2.3526 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cos(c + dx)}(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(e*cos(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 667

2.2.3527 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{3/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*cos(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 668

2.2.3528 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{5/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*cos(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 669

2.2.3529 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{7/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(e*cos(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^{^m}-a+b_tan^{^n}.txt

Test file number 101

Integral number in file 670

2.2.3530 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{9/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(e*cos(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^{^m}-a+b_tan^{^n}.txt

Test file number 101

Integral number in file 671

2.2.3531 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{11/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*cos(d*x+c))^(11/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 672

2.2.3532 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^m}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*cos(d*x+c))^m/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 691

2.2.3533 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^m}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*cos(d*x+c))^m/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 692

2.2.3534 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{i + \tan(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(x)⁴/(I+tan(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin^m-a+b_tanⁿ.txt

Test file number 102

Integral number in file 1

2.2.3535 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{i + \tan(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(x)³/(I+tan(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin^m-a+b_tanⁿ.txt

Test file number 102

Integral number in file 2

2.2.3536 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{i + \tan(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sin(x)^2/(I+tan(x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin-^m-a+b_tan-ⁿ.txt

Test file number 102

Integral number in file 3

2.2.3537 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{i + \tan(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sin(x)/(I+tan(x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin-^m-a+b_tan-ⁿ.txt

Test file number 102

Integral number in file 4

2.2.3538 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(tan(d*x+c)^6/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 45

2.2.3539 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c+dx)}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)⁵/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 46

2.2.3540 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c+dx)}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)⁴/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 47

2.2.3541 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 48

2.2.3542 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 49

2.2.3543 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 50

2.2.3544 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 51

2.2.3545 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 52

2.2.3546 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 53

2.2.3547 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^3/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 54

2.2.3548 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^4/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 55

2.2.3549 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^6/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 56

2.2.3550 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 57

2.2.3551 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 58

2.2.3552 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 59

2.2.3553 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 60

2.2.3554 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 61

2.2.3555 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 62

2.2.3556 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 63

2.2.3557 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 64

2.2.3558 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^3/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 65

2.2.3559 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c+dx)}{(a+ia \tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^6/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 66

2.2.3560 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c+dx)}{(a+ia \tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 67

2.2.3561 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 68

2.2.3562 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 69

2.2.3563 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 70

2.2.3564 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 71

2.2.3565 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 72

2.2.3566 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 73

2.2.3567 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 74

2.2.3568 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(tan(d*x+c)^6/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 75

2.2.3569 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 76

2.2.3570 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 77

2.2.3571 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 78

2.2.3572 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 79

2.2.3573 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 80

2.2.3574 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 81

2.2.3575 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 82

2.2.3576 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 83

2.2.3577 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{7/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 164

2.2.3578 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 165

2.2.3579 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 166

2.2.3580 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 167

2.2.3581 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d \tan(e + fx)(a + ia \tan(e + fx))}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 168

2.2.3582 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{3/2}(a + ia \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 169

2.2.3583 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{5/2}(a + ia \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 170

2.2.3584 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{9/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 171

2.2.3585 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{7/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 172

2.2.3586 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 173

2.2.3587 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 174

2.2.3588 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 175

2.2.3589 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d \tan(e + fx)(a + ia \tan(e + fx))^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 176

2.2.3590 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{3/2}(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 177

2.2.3591 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{5/2} (a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 178

2.2.3592 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{9/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 179

2.2.3593 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{7/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 180

2.2.3594 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 181

2.2.3595 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 182

2.2.3596 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 183

2.2.3597 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d \tan(e + fx)}(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 184

2.2.3598 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{3/2} (a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 185

2.2.3599 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{7/2}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 218

2.2.3600 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{5/2}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```


[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 219

2.2.3601 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 220

2.2.3602 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia \tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 221

2.2.3603 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 222

2.2.3604 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{3/2}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 223

2.2.3605 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)(a+ia\tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 224

2.2.3606 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{9}{2}}(c+dx)}{(a+ia\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(9/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 225

2.2.3607 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 226

2.2.3608 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 227

2.2.3609 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 228

2.2.3610 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 229

2.2.3611 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
)

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 230

2.2.3612 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 231

2.2.3613 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 232

2.2.3614 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{10}{3}}(c+dx)}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(10/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 233

2.2.3615 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{8}{3}}(c+dx)}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(8/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 234

2.2.3616 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{4}{3}}(c+dx)}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 235

2.2.3617 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{2}{3}}(c+dx)}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 236

2.2.3618 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 237

2.2.3619 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{3}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(5/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 238

2.2.3620 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{7}{3}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(7/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 239

2.2.3621 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{14}{3}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(14/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 240

2.2.3622 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{10}{3}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(10/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 241

2.2.3623 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{8}{3}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(8/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 242

2.2.3624 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{4}{3}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 243

2.2.3625 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{2}{3}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 244

2.2.3626 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 245

2.2.3627 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{3}}(c+dx)(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/tan(d*x+c)^(5/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 246

2.2.3628 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{7}{3}}(c+dx)(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/tan(d*x+c)^(7/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 247

2.2.3629 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{4}{3}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 266

2.2.3630 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{2}{3}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 267

2.2.3631 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{\tan(c+dx)}}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan[^]m-c+d_tan[^]n.txt

Test file number 103

Integral number in file 268

2.2.3632 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan[^]m-c+d_tan[^]n.txt

Test file number 103

Integral number in file 269

2.2.3633 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{2/3}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan[^]m-c+d_tan[^]n.txt

Test file number 103

Integral number in file 270

2.2.3634 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{4}{3}}(c+dx)(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 271

2.2.3635 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c+dx)}{(a+ia \tan(c+dx))^{4/3}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^m/(a+I*a*tan(d*x+c))^(4/3),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 298

2.2.3636 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia \tan(c+dx))^{4/3}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(4/3),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 299

2.2.3637 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 314

2.2.3638 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 315

2.2.3639 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 316

2.2.3640 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 317

2.2.3641 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{a - ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^n/(a-I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 319

2.2.3642 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 323

2.2.3643 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{1 + \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((1+tan(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 1 which is not of the expected type LIST

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 386

2.2.3644 Maxima [F(-2)]

Exception generated.

$$\int (1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((1+tan(f*x+e))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 1 which is not of the expected type LIST

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 397

2.2.3645 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{1 + \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(1+tan(f*x+e))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 1 which is not of the expected type LIST

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 408

2.2.3646 Maxima [F(-2)]

Exception generated.

$$\int \tan(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*tan(d*x+c))^(1/2)*tan(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 506

2.2.3647 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 507

2.2.3648 Maxima [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 514

2.2.3649 Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 515

2.2.3650 Maxima [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 521

2.2.3651 Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 522

2.2.3652 Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{7/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*tan(d*x+c))^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 527

2.2.3653 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 532

2.2.3654 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 533

2.2.3655 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 541

2.2.3656 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 542

2.2.3657 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(tan(d*x+c)/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 550

2.2.3658 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 551

2.2.3659 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*tan(d*x+c))^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 554

2.2.3660 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(c + dx)}{\sqrt{e \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*tan(d*x+c))/(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 580

2.2.3661 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(c + dx)}{\sqrt{-e \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(d*x+c))/(-e*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 581

2.2.3662 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c + dx)} \sqrt{2 + 3 \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/tan(d*x+c)^(1/2)/(2+3*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 655

2.2.3663 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}\sqrt{-2+3\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(1/2)/(-2+3*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 656

2.2.3664 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{2-3\tan(c+dx)}\sqrt{\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(2-3*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 657

2.2.3665 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-2-3\tan(c+dx)}\sqrt{\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(-2-3*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 658

2.2.3666 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}\sqrt{3+2\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/tan(d*x+c)^(1/2)/(3+2*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 659

2.2.3667 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3-2\tan(c+dx)}\sqrt{\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(3-2*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 660

2.2.3668 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}\sqrt{-3+2\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/tan(d*x+c)^(1/2)/(-3+2*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 661

2.2.3669 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-3-2\tan(c+dx)}\sqrt{\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(-3-2*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 662

2.2.3670 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 735

2.2.3671 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 736

2.2.3672 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 737

2.2.3673 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 738

2.2.3674 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 739

2.2.3675 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```


[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 740

2.2.3676 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 741

2.2.3677 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 742

2.2.3678 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 743

2.2.3679 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 744

2.2.3680 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 745

2.2.3681 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+ia \tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 746

2.2.3682 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia \tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 747

2.2.3683 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 748

2.2.3684 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 749

2.2.3685 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia \tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 750

2.2.3686 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)}{(a+ia \tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 774

2.2.3687 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 775

2.2.3688 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 776

2.2.3689 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
)

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 777

2.2.3690 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 778

2.2.3691 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 779

2.2.3692 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia\tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 780

2.2.3693 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)}{(a+ia\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 781

2.2.3694 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 782

2.2.3695 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c + dx)}}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 783

2.2.3696 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c + dx)}(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
)
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 784

2.2.3697 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 785

2.2.3698 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 786

2.2.3699 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 787

2.2.3700 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \cot(e+fx))^n}{a+ia \tan(e+fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*cot(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 791

2.2.3701 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \cot(e+fx))^n}{(a+ia \tan(e+fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*cot(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 792

2.2.3702 Maxima [F(-2)]

Exception generated.

$$\int \frac{c - ic \tan(e + fx)}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 893

2.2.3703 Maxima [F(-2)]

Exception generated.

$$\int \frac{c - ic \tan(e + fx)}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 894

2.2.3704 Maxima [F(-2)]

Exception generated.

$$\int \frac{c - ic \tan(e + fx)}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 895

2.2.3705 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^2}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 900

2.2.3706 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^2}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 901

2.2.3707 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^2}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 902

2.2.3708 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^2}{(a + ia \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 903

2.2.3709 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 909

2.2.3710 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 910

2.2.3711 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 911

2.2.3712 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{(a + ia \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 912

2.2.3713 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{(a + ia \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 913

2.2.3714 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 919

2.2.3715 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 920

2.2.3716 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 921

2.2.3717 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{(a + ia \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 922

2.2.3718 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{(a + ia \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 923

2.2.3719 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^4}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^4/(c-I*c*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 924

2.2.3720 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 925

2.2.3721 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 926

2.2.3722 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 927

2.2.3723 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 928

2.2.3724 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 929

2.2.3725 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 930

2.2.3726 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^4}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^4/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 931

2.2.3727 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 932

2.2.3728 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 933

2.2.3729 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 934

2.2.3730 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 935

2.2.3731 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 936

2.2.3732 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 937

2.2.3733 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^6}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^6/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 938

2.2.3734 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^5}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^5/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 939

2.2.3735 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^4}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^4/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 940

2.2.3736 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 941

2.2.3737 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 942

2.2.3738 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 943

2.2.3739 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 944

2.2.3740 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 945

2.2.3741 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
)
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 946

2.2.3742 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^6}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^6/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 947

2.2.3743 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^5}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^5/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 948

2.2.3744 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^4}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^4/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 949

2.2.3745 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 950

2.2.3746 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 951

2.2.3747 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 952

2.2.3748 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 953

2.2.3749 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima"
)
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 954

2.2.3750 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima"
)
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 955

2.2.3751 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - i c \tan(e + f x)}}{(a + i a \tan(e + f x))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 996

2.2.3752 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - i c \tan(e + f x)}}{(a + i a \tan(e + f x))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 997

2.2.3753 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - ic \tan(e + fx)}}{(a + ia \tan(e + fx))^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 998

2.2.3754 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1021

2.2.3755 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1022

2.2.3756 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{7/2} \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1023

2.2.3757 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}}{(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1028

2.2.3758 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)}(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1029

2.2.3759 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} (c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1031

2.2.3760 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{7/2} (c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(7/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1032

2.2.3761 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}}{(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1038

2.2.3762 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)}(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1039

2.2.3763 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} (c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1040

2.2.3764 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{7/2} (c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(7/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1042

2.2.3765 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ict \tan(e + fx))^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 1047

2.2.3766 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ict \tan(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 1048

2.2.3767 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ict \tan(e + fx))^n}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1049

2.2.3768 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{c - ict \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1055

2.2.3769 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ict \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))²,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1056

2.2.3770 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1057

2.2.3771 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1058

2.2.3772 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1063

2.2.3773 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1064

2.2.3774 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \tan(e + fx)}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1068

2.2.3775 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \tan(e + fx)}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1069

2.2.3776 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \tan(e + fx)}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1070

2.2.3777 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^2/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1074

2.2.3778 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1075

2.2.3779 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1076

2.2.3780 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c+d*tan(f*x+e))^3/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1080

2.2.3781 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c+d*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1081

2.2.3782 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c+d*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1082

2.2.3783 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1086

2.2.3784 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2(c + d \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1087

2.2.3785 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1088

2.2.3786 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1092

2.2.3787 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c + d \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1093

2.2.3788 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1094

2.2.3789 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1098

2.2.3790 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c + d \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1099

2.2.3791 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1100

2.2.3792 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1104

2.2.3793 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1105

2.2.3794 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1106

2.2.3795 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt
```

```
Test file number 103
```

```
Integral number in file 1110
```

2.2.3796 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt
```

```
Test file number 103
```

```
Integral number in file 1111
```

2.2.3797 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1112

2.2.3798 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1116

2.2.3799 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1117

2.2.3800 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1118

2.2.3801 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx)) \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1122

2.2.3802 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 1123

2.2.3803 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 1124

2.2.3804 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*c*d^4)/((c^2-d^2)^2)>0)', see 'assume

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1127

2.2.3805 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
)

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1128

2.2.3806 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 1129

2.2.3807 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 1130

2.2.3808 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(((-(2*c*d^4)/((c^2-d^2)^2)>0)', see
'assume
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1133

2.2.3809 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1134

2.2.3810 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1135

2.2.3811 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1136

2.2.3812 Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(1/2)*(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1137

2.2.3813 Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(1/2)*(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1138

2.2.3814 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1141

2.2.3815 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1142

2.2.3816 Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1143

2.2.3817 Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1144

2.2.3818 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1147

2.2.3819 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1148

2.2.3820 Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1149

2.2.3821 Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1150

2.2.3822 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1153

2.2.3823 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1154

2.2.3824 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d^2-2*c*d-c^2)>0)', see 'assume?' for mor

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1155

2.2.3825 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d^2-2*c*d-c^2)>0)', see 'assume?' for mor

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1156

2.2.3826 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1159

2.2.3827 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1160

2.2.3828 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d^2-2*c*d-c^2)>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1161

2.2.3829 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2}(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1165

2.2.3830 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1166

2.2.3831 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*c*d^4)/((c^2-d^2)^2)>0)', see 'assume
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1168

2.2.3832 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1171

2.2.3833 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1172

2.2.3834 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txtTest file number 103Integral number in file 1177**2.2.3835 Maxima [F(-2)]**

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txtTest file number 103Integral number in file 1178**2.2.3836 Maxima [F(-2)]**

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^n}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c+d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1179

2.2.3837 Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx)) \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)*(a+b*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1231

2.2.3838 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1232

2.2.3839 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1233

2.2.3840 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1234

2.2.3841 Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1237

2.2.3842 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1238

2.2.3843 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1239

2.2.3844 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1240

2.2.3845 Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))(c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1243

2.2.3846 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1244

2.2.3847 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1245

2.2.3848 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1246

2.2.3849 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1250

2.2.3850 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1251

2.2.3851 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1252

2.2.3852 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more details)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1256

2.2.3853 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1257

2.2.3854 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more
detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1258

2.2.3855 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1262

2.2.3856 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1263

2.2.3857 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1264

2.2.3858 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{\sqrt{a + b \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1268

2.2.3859 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1269

2.2.3860 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1270

2.2.3861 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1274

2.2.3862 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1275

2.2.3863 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1276

2.2.3864 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + b \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+b*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1281

2.2.3865 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + b \tan(e + fx))^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+b*tan(f*x+e))^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 1282

2.2.3866 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(e + fx)}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt

Test file number 103

Integral number in file 1285

2.2.3867 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan(e + fx)} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1286

2.2.3868 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1291

2.2.3869 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(e + fx)}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1292

2.2.3870 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^{3/2}(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1294

2.2.3871 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^{5/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1298

2.2.3872 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1299

2.2.3873 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(e + fx)}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1300

2.2.3874 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^{5/2}(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1303

2.2.3875 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c(d \tan(e + fx))^p)^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*(d*tan(f*x+e))^p)^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt
```

```
Test file number 103
```

```
Integral number in file 1321
```

2.2.3876 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c(d \tan(e + fx))^p)^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c*(d*tan(f*x+e))^p)^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tan^n.txt
```

```
Test file number 103
```

```
Integral number in file 1322
```

2.2.3877 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 36

2.2.3878 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 37

2.2.3879 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 38

2.2.3880 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 39

2.2.3881 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 40

2.2.3882 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 41

2.2.3883 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 42

2.2.3884 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^4*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 43

2.2.3885 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 44

2.2.3886 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 45

2.2.3887 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 46

2.2.3888 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 47

2.2.3889 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 48

2.2.3890 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 49

2.2.3891 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 50

2.2.3892 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^4*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 51

2.2.3893 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 52

2.2.3894 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 53

2.2.3895 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 54

2.2.3896 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 55

2.2.3897 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 56

2.2.3898 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 57

2.2.3899 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 58

2.2.3900 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^4*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 59

2.2.3901 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 60

2.2.3902 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 61

2.2.3903 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 62

2.2.3904 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 63

2.2.3905 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 64

2.2.3906 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 65

2.2.3907 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 66

2.2.3908 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 134

2.2.3909 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 135

2.2.3910 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 136

2.2.3911 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 137

2.2.3912 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 138

2.2.3913 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 139

2.2.3914 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 140

2.2.3915 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 141

2.2.3916 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 142

2.2.3917 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 143

2.2.3918 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 144

2.2.3919 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 145

2.2.3920 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{9}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(9/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 146

2.2.3921 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(7/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 147

2.2.3922 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 148

2.2.3923 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 149

2.2.3924 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 150

2.2.3925 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 151

2.2.3926 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 152

2.2.3927 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 153

2.2.3928 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 179

2.2.3929 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 180

2.2.3930 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 181

2.2.3931 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 182

2.2.3932 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 183

2.2.3933 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{7}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 184

2.2.3934 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 185

2.2.3935 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 186

2.2.3936 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 187

2.2.3937 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{3/2}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 188

2.2.3938 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 189

2.2.3939 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 190

2.2.3940 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 191

2.2.3941 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 192

2.2.3942 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 193

2.2.3943 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{3/2}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 194

2.2.3944 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 195

2.2.3945 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 208

2.2.3946 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 209

2.2.3947 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 210

2.2.3948 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 211

2.2.3949 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 215

2.2.3950 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorit
hm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 216

2.2.3951 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorit
hm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 217

2.2.3952 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt

Test file number 104

Integral number in file 320

2.2.3953 Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt

Test file number 104

Integral number in file 327

2.2.3954 Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan-[^]m-c+d_tan-[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 334

2.2.3955 Maxima [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx))(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan-[^]m-c+d_tan-[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 340

2.2.3956 Maxima [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx))(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 341

2.2.3957 Maxima [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx))\sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 342

2.2.3958 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 346

2.2.3959 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 353

2.2.3960 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 361

2.2.3961 Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 365

2.2.3962 Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 366

2.2.3963 Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 368

2.2.3964 Maxima [F(-2)]

Exception generated.

$$\int \frac{-a + b \tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((-a+b*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 370

2.2.3965 Maxima [F(-2)]

Exception generated.

$$\int \frac{-a + b \tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((-a+b*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 371

2.2.3966 Maxima [F(-2)]

Exception generated.

$$\int \frac{-a + b \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((-a+b*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 372

2.2.3967 Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - i \tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((1-I*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 374

2.2.3968 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 519

2.2.3969 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 520

2.2.3970 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 521

2.2.3971 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 522

2.2.3972 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-
.txt

Test file number 104

Integral number in file 523

2.2.3973 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm
="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-
.txt

Test file number 104

Integral number in file 524

2.2.3974 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 525

2.2.3975 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 526

2.2.3976 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)(a + ia \tan(c + dx))^2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 527

2.2.3977 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 528

2.2.3978 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 529

2.2.3979 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 530

2.2.3980 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 531

2.2.3981 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 532

2.2.3982 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 533

2.2.3983 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 534

2.2.3984 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{7}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 535

2.2.3985 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 554

2.2.3986 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 555

2.2.3987 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 556

2.2.3988 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 557

2.2.3989 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 558

2.2.3990 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 559

2.2.3991 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 560

2.2.3992 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 561

2.2.3993 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 562

2.2.3994 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 563

2.2.3995 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 564

2.2.3996 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 565

2.2.3997 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 566

2.2.3998 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 671

2.2.3999 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 672

2.2.4000 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ict \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 673

2.2.4001 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ict \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 674

2.2.4002 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 675

2.2.4003 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2(A + B \tan(e + fx))}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 683

2.2.4004 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 684

2.2.4005 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 685

2.2.4006 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 686

2.2.4007 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 687

2.2.4008 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^6} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^6,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 688

2.2.4009 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{c - ict \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 697

2.2.4010 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 698

2.2.4011 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 699

2.2.4012 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 700

2.2.4013 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 701

2.2.4014 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^6} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^6,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 702

2.2.4015 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^7} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^7,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 703

2.2.4016 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^8} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^8,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 704

2.2.4017 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 705

2.2.4018 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^4}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e)),x, algorith
ithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 706

2.2.4019 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^3}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e)),x, algorith
ithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 707

2.2.4020 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^2}{a + i a \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 708

2.2.4021 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))}{a + i a \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 709

2.2.4022 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 710

2.2.4023 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 711

2.2.4024 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 712

2.2.4025 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 713

2.2.4026 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 714

2.2.4027 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 715

2.2.4028 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^5}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^5/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 716

2.2.4029 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^4}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 717

2.2.4030 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^3}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 718

2.2.4031 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^2}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 719

2.2.4032 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algor
ithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 720

2.2.4033 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 721

2.2.4034 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 722

2.2.4035 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 723

2.2.4036 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 724

2.2.4037 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 725

2.2.4038 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 726

2.2.4039 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^n}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 727

2.2.4040 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^5}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^5/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 728

2.2.4041 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^4}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 729

2.2.4042 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^3}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 730

2.2.4043 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^2}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 731

2.2.4044 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 732

2.2.4045 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 733

2.2.4046 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 734

2.2.4047 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 735

2.2.4048 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 736

2.2.4049 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 737

2.2.4050 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 738

2.2.4051 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^6} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^6,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 739

2.2.4052 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{\sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 791

2.2.4053 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 792

2.2.4054 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 793

2.2.4055 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{7/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 794

2.2.4056 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{\sqrt{a + ia \tan(e + fx)}(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 834

2.2.4057 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{\sqrt{a + ia \tan(e + fx)}(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 835

2.2.4058 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{5/2}}{(a + i a \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 837

2.2.4059 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))\sqrt{c - i c \tan(e + fx)}}{(a + i a \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c-I*c*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 839

2.2.4060 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^{3/2} \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 840

2.2.4061 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^{3/2} (c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(3/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 842

2.2.4062 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{9/2}}{(a + i a \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 843

2.2.4063 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))\sqrt{c - i c \tan(e + fx)}}{(a + i a \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c-I*c*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan.txt

Test file number 104

Integral number in file 847

2.2.4064 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^{5/2} \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 848

2.2.4065 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^{5/2} (c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(5/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan.txt

Test file number 104

Integral number in file 849

2.2.4066 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - i \tan(e + fx))^n (-i(2 + n) + (-2 + n) \tan(e + fx))}{(-i + \tan(e + fx))^2} dx$$

= Exception raised: RuntimeError

```
[In] integrate((c-I*c*tan(f*x+e))^n*(-I*(2+n)+(-2+n)*tan(f*x+e))/(-I+tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 853

2.2.4067 Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c + d \tan(e + fx))}{(a + i a \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*tan(f*x+e))*(c+d*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 854

2.2.4068 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx$$

= Exception raised: ValueError

```
[In] integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 94

2.2.4069 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx$$

= Exception raised: ValueError

```
[In] integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 95

2.2.4070 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx$$

= Exception raised: ValueError

```
[In] integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 96

2.2.4071 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 101

2.2.4072 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 102

2.2.4073 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 103

2.2.4074 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 107

2.2.4075 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 108

2.2.4076 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 109

2.2.4077 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 114

2.2.4078 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 115

2.2.4079 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 120

2.2.4080 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^3/2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 121

2.2.4081 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^5/2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 126

2.2.4082 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^5/2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see 'assume?' for more detail
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 127

2.2.4083 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^5/2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 133

2.2.4084 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for mo
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^{-m}-c+d_tan⁻ⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 140

2.2.4085 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^{9/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^(9/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for mo
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^{-m}-c+d_tan⁻ⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 146

2.2.4086 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tan^n-A+B_tan+C_tan^2.txt

Test file number 105

Integral number in file 161

2.2.4087 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sin(f*x+e)^5/(a+b*tan(f*x+e)^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig^m-a+b-c_tan^n^p.txt

Test file number 106

Integral number in file 55

2.2.4088 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)^3/(a+b*tan(f*x+e)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 56

2.2.4089 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)/(a+b*tan(f*x+e)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 57

2.2.4090 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 58

2.2.4091 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(f*x+e)^3/(a+b*tan(f*x+e)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 59

2.2.4092 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(f*x+e)^5/(a+b*tan(f*x+e)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 60

2.2.4093 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)^5/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 68

2.2.4094 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)^3/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 69

2.2.4095 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 70

2.2.4096 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 71

2.2.4097 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(f*x+e)^3/(a+b*tan(f*x+e)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 72

2.2.4098 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(csc(f*x+e)^5/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 73

2.2.4099 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sin(f*x+e)^5/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 80

2.2.4100 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)^3/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 81

2.2.4101 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(f*x+e)/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 82

2.2.4102 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 83

2.2.4103 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(f*x+e)^3/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 84

2.2.4104 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(f*x+e)^5/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 85

2.2.4105 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 100

2.2.4106 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 124

2.2.4107 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 136

2.2.4108 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 148

2.2.4109 Maxima [F(-2)]

Exception generated.

$$\int \cot(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(f*x+e)*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 296

2.2.4110 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 302

2.2.4111 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 329

2.2.4112 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(e + fx)}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(f*x+e)^3/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 334

2.2.4113 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(e + fx)}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(f*x+e)^2/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 341

2.2.4114 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-^n-^p.txt

Test file number 106

Integral number in file 342

2.2.4115 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(f*x+e)^5/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-^n-^p.txt

Test file number 106

Integral number in file 346

2.2.4116 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(f*x+e)^3/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 347

2.2.4117 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(f*x+e)^4/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 353

2.2.4118 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(f*x+e)^2/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 354

2.2.4119 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 355

2.2.4120 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \tan^4(x))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cot(x)/(a+b*tan(x)^4)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 402

2.2.4121 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \tan^4(x))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cot(x)/(a+b*tan(x)^4)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 405

2.2.4122 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^m}{(a + b \sqrt{c \tan(e + fx)})^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*tan(f*x+e))^m/(a+b*(c*tan(f*x+e))^(1/2))^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 409

2.2.4123 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^5/(a+b*tan(d*x+c)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 450

2.2.4124 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3/(a+b*tan(d*x+c)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 451

2.2.4125 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*tan(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 452

2.2.4126 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)/(a+b*tan(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 453

2.2.4127 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3/(a+b*tan(d*x+c)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 454

2.2.4128 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^5/(a+b*tan(d*x+c)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 455

2.2.4129 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^7(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^7/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 462

2.2.4130 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^5/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 463

2.2.4131 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 464

2.2.4132 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 465

2.2.4133 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 466

2.2.4134 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 467

2.2.4135 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((c-b-a)*(c+b-a)>0)', see 'assume?'
for mor
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-
^p.txt
```

Test file number 107

Integral number in file 6

2.2.4136 Maxima [F(-2)]

Exception generated.

$$\int \cot(d + ex) \sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cot(e*x+d)*(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="ma
xima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((-16*a*(a/4-c/4))>0)', see 'assume?'
' for m
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-
^p.txt
```

Test file number 107

Integral number in file 7

2.2.4137 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(d+ex)}{\sqrt{a+b\tan(d+ex)+c\tan^2(d+ex)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(e*x+d)/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-
^p.txt

Test file number 107

Integral number in file 14

2.2.4138 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+b\tan(d+ex)+c\tan^2(d+ex)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-
^p.txt

Test file number 107

Integral number in file 15

2.2.4139 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(d+ex)}{(a+b\tan(d+ex)+c\tan^2(d+ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(tan(e*x+d)^3/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-^p.txt

Test file number 107

Integral number in file 21

2.2.4140 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(d+ex)}{(a+b\tan(d+ex)+c\tan^2(d+ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(tan(e*x+d)^2/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-^p.txt

Test file number 107

Integral number in file 22

2.2.4141 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(d+ex)}{(a+b\tan(d+ex)+c\tan^2(d+ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(tan(e*x+d)/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-
^p.txt

Test file number 107

Integral number in file 23

2.2.4142 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^7(d+ex)}{(a+b\tan^2(d+ex)+c\tan^4(d+ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tan(e*x+d)^7/(a+b*tan(e*x+d)^2+c*tan(e*x+d)^4)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-
^p.txt

Test file number 107

Integral number in file 45

2.2.4143 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(d + ex)}{(a + b \tan^2(d + ex) + c \tan^4(d + ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(e*x+d)/(a+b*tan(e*x+d)^2+c*tan(e*x+d)^4)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.3_Tangent/4.3.9_trig^m-a+b_tan^n+c_tan^-2_n-^p.txt

Test file number 107

Integral number in file 49

2.2.4144 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + ia \cot(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^3/(a+I*a*cot(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^-m-a+b_cot^-n.txt

Test file number 109

Integral number in file 16

2.2.4145 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + ia \cot(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*x+c)^2/(a+I*a*cot(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^m-a+b_cot^n.txt

Test file number 109

Integral number in file 17

2.2.4146 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + ia \cot(e + fx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*x+c)/(a+I*a*cot(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^m-a+b_cot^n.txt

Test file number 109

Integral number in file 18

2.2.4147 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + ia \cot(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d*x+c)^3/(a+I*a*cot(f*x+e))^2,x, algorithm="maxima")
```


[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^{-m}-a+b_cot⁻ⁿ.txt

Test file number 109

Integral number in file 22

2.2.4148 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + ia \cot(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^2/(a+I*a*cot(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^{-m}-a+b_cot⁻ⁿ.txt

Test file number 109

Integral number in file 23

2.2.4149 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + ia \cot(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)/(a+I*a*cot(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^{-m}-a+b_cot⁻ⁿ.txt

Test file number 109

Integral number in file 24

2.2.4150 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + ia \cot(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^3/(a+I*a*cot(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^m-a+b_cot^n.txt

Test file number 109

Integral number in file 27

2.2.4151 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + ia \cot(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)^2/(a+I*a*cot(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^m-a+b_cot^n.txt

Test file number 109

Integral number in file 28

2.2.4152 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + ia \cot(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x+c)/(a+I*a*cot(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.10-c+d_x^m-a+b_cotⁿ.txt

Test file number 109

Integral number in file 29

2.2.4153 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(x)⁴/(I+cot(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.1.2-d_csc^m-a+b_cotⁿ.txt

Test file number 110

Integral number in file 1

2.2.4154 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(x)³/(I+cot(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.1.2-d_csc^m-a+b_cotⁿ.txt

Test file number 110

Integral number in file 2

2.2.4155 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(x)^2/(I+cot(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.1.2-d_csc^m-a+b_cot^n.txt

Test file number 110

Integral number in file 3

2.2.4156 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(x)/(I+cot(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.1.2-d_csc^m-a+b_cot^n.txt

Test file number 110

Integral number in file 4

2.2.4157 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(x)^4/(I+cot(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.1.3-d_cos^m-a+b_cotⁿ.txt

Test file number 111

Integral number in file 1

2.2.4158 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(x)³/(I+cot(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.1.3-d_cos^m-a+b_cotⁿ.txt

Test file number 111

Integral number in file 2

2.2.4159 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(x)²/(I+cot(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.1.3-d_cos^m-a+b_cotⁿ.txt

Test file number 111

Integral number in file 3

2.2.4160 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(x)/(I+cot(x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.4_Cotangent/4.4.1.3-d_cos^{-m-a+b_cot⁻ⁿ.txt}

Test file number 111

Integral number in file 4

2.2.4161 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*cot(d*x+c))^(5/2)*(a+a*cot(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^{-m-c+d_cot⁻ⁿ.txt}

Test file number 112

Integral number in file 2

2.2.4162 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(3/2)*(a+a*cot(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 3

2.2.4163 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + a \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(1/2)*(a+a*cot(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 4

2.2.4164 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \cot(c + dx)}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 5

2.2.4165 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \cot(c + dx)}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 6

2.2.4166 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \cot(c + dx)}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 7

2.2.4167 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(5/2)*(a+a*cot(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 8

2.2.4168 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(3/2)*(a+a*cot(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 9

2.2.4169 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + a \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(1/2)*(a+a*cot(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 10

2.2.4170 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^2}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))^2/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-^m-c+d_cot-^n.txt

Test file number 112

Integral number in file 11

2.2.4171 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^2}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))^2/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-^m-c+d_cot-^n.txt

Test file number 112

Integral number in file 12

2.2.4172 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^2}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*cot(d*x+c))^2/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot[^]m-c+d_cot[^]n.txt

Test file number 112

Integral number in file 13

2.2.4173 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^2}{(e \cot(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*cot(d*x+c))^2/(e*cot(d*x+c))^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot[^]m-c+d_cot[^]n.txt

Test file number 112

Integral number in file 14

2.2.4174 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(5/2)*(a+a*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 15

2.2.4175 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(3/2)*(a+a*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 16

2.2.4176 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + a \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(1/2)*(a+a*cot(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 17

2.2.4177 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 18

2.2.4178 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cot^n.txt

Test file number 112

Integral number in file 19

2.2.4179 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cot^n.txt

Test file number 112

Integral number in file 20

2.2.4180 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{(e \cot(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cot^n.txt

Test file number 112

Integral number in file 21

2.2.4181 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{(e \cot(c + dx))^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cot^n.txt

Test file number 112

Integral number in file 22

2.2.4182 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{a + a \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 23

2.2.4183 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{a + a \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 24

2.2.4184 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{a + a \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 25

2.2.4185 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + a \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 26

2.2.4186 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2}(a + a \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 27

2.2.4187 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{5/2}(a + a \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 28

2.2.4188 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 29

2.2.4189 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 30

2.2.4190 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 31

2.2.4191 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 32

2.2.4192 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2} (a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 33

2.2.4193 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{5/2} (a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 34

2.2.4194 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 35

2.2.4195 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 36

2.2.4196 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 37

2.2.4197 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 38

2.2.4198 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2} (a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 39

2.2.4199 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{5/2} (a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 40

2.2.4200 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + b \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*cot(d*x+c))^(3/2)*(a+b*cot(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 51

2.2.4201 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + b \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*cot(d*x+c))^(1/2)*(a+b*cot(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 52

2.2.4202 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cot(c + dx)}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(d*x+c))/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 53

2.2.4203 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cot(c + dx)}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(d*x+c))/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 54

2.2.4204 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cot(c + dx)}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(d*x+c))/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 55

2.2.4205 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + b \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(3/2)*(a+b*cot(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 56

2.2.4206 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + b \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(1/2)*(a+b*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 57

2.2.4207 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^2}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*cot(d*x+c))^2/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 58

2.2.4208 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^2}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*cot(d*x+c))^2/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot[^]m-c+d_cot[^]n.txt

Test file number 112

Integral number in file 59

2.2.4209 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^2}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*cot(d*x+c))^2/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot[^]m-c+d_cot[^]n.txt

Test file number 112

Integral number in file 60

2.2.4210 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^2}{(e \cot(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(d*x+c))^2/(e*cot(d*x+c))^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 61

2.2.4211 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + b \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(3/2)*(a+b*cot(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 62

2.2.4212 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + b \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*cot(d*x+c))^(1/2)*(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 63

2.2.4213 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 64

2.2.4214 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cot^n.txt

Test file number 112

Integral number in file 65

2.2.4215 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cot^n.txt

Test file number 112

Integral number in file 66

2.2.4216 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{(e \cot(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cot^n.txt

Test file number 112

Integral number in file 67

2.2.4217 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{(e \cot(c + dx))^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cot^n.txt

Test file number 112

Integral number in file 68

2.2.4218 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{a + b \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(5/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 69

2.2.4219 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{a + b \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 70

2.2.4220 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{a + b \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 71

2.2.4221 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + b \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 72

2.2.4222 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2}(a + b \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 73

2.2.4223 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{5/2}(a + b \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*cot(d*x+c))^(5/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 74

2.2.4224 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{7/2}}{(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(7/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 75

2.2.4225 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(5/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 76

2.2.4226 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 77

2.2.4227 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 78

2.2.4228 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 79

2.2.4229 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2}(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 80

2.2.4230 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{9/2}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(9/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 81

2.2.4231 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{7/2}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(7/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 82

2.2.4232 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(5/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 83

2.2.4233 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 84

2.2.4234 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 85

2.2.4235 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 86

2.2.4236 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2} (a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 87

2.2.4237 Maxima [F(-2)]

Exception generated.

$$\int (a + b \cot(e + fx))^m (d \tan(e + fx))^n dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*cot(f*x+e))^m*(d*tan(f*x+e))^n,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot-[^]m-c+d_cot-[^]n.txt

Test file number 112

Integral number in file 89

2.2.4238 Maxima [F(-2)]

Exception generated.

$$\int \cot^3(x) \sqrt{a + b \cot^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)^3*(a+b*cot(x)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name `4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-^n-^p.txt`

Test file number 113

Integral number in file 19

2.2.4239 Maxima [F(-2)]

Exception generated.

$$\int \cot(x) \sqrt{a + b \cot^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)*(a+b*cot(x)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name `4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-^n-^p.txt`

Test file number 113

Integral number in file 20

2.2.4240 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cot^2(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*cot(x)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 23

2.2.4241 Maxima [F(-2)]

Exception generated.

$$\int \cot^3(x) (a + b \cot^2(x))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)^3*(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 26

2.2.4242 Maxima [F(-2)]

Exception generated.

$$\int \cot(x) (a + b \cot^2(x))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)*(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 28

2.2.4243 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cot^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*cot(d*x+c)^2)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 33

2.2.4244 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \cot^2(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cot(d*x+c)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 34

2.2.4245 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cot^2(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cot(d*x+c)^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 35

2.2.4246 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cot^2(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*cot(d*x+c)^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 36

2.2.4247 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cot^2(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*cot(d*x+c)^2)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 37

2.2.4248 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(x)}{\sqrt{a + b \cot^2(x)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(x)^3/(a+b*cot(x)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-^n-^p.txt

Test file number 113

Integral number in file 44

2.2.4249 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{\sqrt{a + b \cot^2(x)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(x)/(a+b*cot(x)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-^n-^p.txt

Test file number 113

Integral number in file 46

2.2.4250 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(x)}{(a + b \cot^2(x))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(x)^3/(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 49

2.2.4251 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(x)}{(a + b \cot^2(x))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(x)^2/(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 50

2.2.4252 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \cot^2(x))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)/(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 51

2.2.4253 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(x)}{(a + b \cot^2(x))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)^3/(a+b*cot(x)^2)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 54

2.2.4254 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(x)}{(a + b \cot^2(x))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cot(x)^2/(a+b*cot(x)^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 55

2.2.4255 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \cot^2(x))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cot(x)/(a+b*cot(x)^2)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more
detail
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-ⁿ-^p.txt

Test file number 113

Integral number in file 56

2.2.4256 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^-2_n-^p.txt

Test file number 114

Integral number in file 3

2.2.4257 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)} \tan(d+ex) dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2)*tan(e*x+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((c-b-a)*(c+b-a)>0)', see 'assume?' for more)

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^-2_n-^p.txt

Test file number 114

Integral number in file 9

2.2.4258 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cot(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^2_n-^p.txt

Test file number 114

Integral number in file 13

2.2.4259 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cot(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^2_n-^p.txt

Test file number 114

Integral number in file 14

2.2.4260 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^7(d+ex)}{(a+b\cot^2(d+ex)+c\cot^4(d+ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(e*x+d)^7/(a+b*cot(e*x+d)^2+c*cot(e*x+d)^4)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^2_n-^p.txt

Test file number 114

Integral number in file 27

2.2.4261 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(d+ex)}{(a+b\cot^2(d+ex)+c\cot^4(d+ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(tan(e*x+d)/(a+b*cot(e*x+d)^2+c*cot(e*x+d)^4)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^2_n-^p.txt

Test file number 114

Integral number in file 31

2.2.4262 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + b \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^3/(a+b*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.10-c+d_x-^m-a+b_sec-^n.txt

Test file number 116

Integral number in file 34

2.2.4263 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + b \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^2/(a+b*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.10-c+d_x-^m-a+b_sec-^n.txt

Test file number 116

Integral number in file 35

2.2.4264 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + b \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)/(a+b*sec(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.10-c+d_x-[^]m-a+b_sec-[^]n.txt

Test file number 116

Integral number in file 36

2.2.4265 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + b \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^3/(a+b*sec(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.10-c+d_x-[^]m-a+b_sec-[^]n.txt

Test file number 116

Integral number in file 39

2.2.4266 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + b \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)^2/(a+b*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.10-c+d_x-^m-a+b_sec-^n.txt

Test file number 116

Integral number in file 40

2.2.4267 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + b \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x+c)/(a+b*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.10-c+d_x-^m-a+b_sec-^n.txt

Test file number 116

Integral number in file 41

2.2.4268 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \sec(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(a+b*sec(d*x^2+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 25

2.2.4269 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 41

2.2.4270 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 42

2.2.4271 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 43

2.2.4272 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 46

2.2.4273 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 47

2.2.4274 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 48

2.2.4275 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^(3/2)/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 61

2.2.4276 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^(1/2)/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x-^m-a+b_sec-c+d_x-n-^p.txt

Test file number 117

Integral number in file 62

2.2.4277 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \sec(c + d\sqrt{x}))} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*sec(c+d*x^(1/2)))/x^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x-^m-a+b_sec-c+d_x-n-^p.txt

Test file number 117

Integral number in file 63

2.2.4278 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^(3/2)/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 66

2.2.4279 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^(1/2)/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 67

2.2.4280 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*sec(c+d*x^(1/2)))^2/x^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.11-e_x^m-a+b_sec-c+d_x^n-p.txt

Test file number 117

Integral number in file 68

2.2.4281 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{3}{2}}(c + dx)(a + a \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec^n-a+b_sec^m.txt

Test file number 118

Integral number in file 216

2.2.4282 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{5}{2}}(c+dx)(a+a\sec(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 257

2.2.4283 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c+dx)}{(a+a\sec(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 427

2.2.4284 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c+dx)}{a+b\sec(c+dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^5/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 487

2.2.4285 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 488

2.2.4286 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 489

2.2.4287 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 490

2.2.4288 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 491

2.2.4289 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-[^]n-a+b_sec-[^]m.txt

Test file number 118

Integral number in file 492

2.2.4290 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-[^]n-a+b_sec-[^]m.txt

Test file number 118

Integral number in file 493

2.2.4291 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 494

2.2.4292 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^3/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 495

2.2.4293 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-[^]n-a+b_sec-[^]m.txt

Test file number 118

Integral number in file 496

2.2.4294 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^5/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-[^]n-a+b_sec-[^]m.txt

Test file number 118

Integral number in file 497

2.2.4295 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 498

2.2.4296 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 499

2.2.4297 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 500

2.2.4298 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 501

2.2.4299 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 502

2.2.4300 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 503

2.2.4301 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 504

2.2.4302 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 505

2.2.4303 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^5/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 506

2.2.4304 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 507

2.2.4305 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 508

2.2.4306 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 509

2.2.4307 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 510

2.2.4308 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 511

2.2.4309 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 512

2.2.4310 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 513

2.2.4311 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^6(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^6/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 514

2.2.4312 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^5/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 515

2.2.4313 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^4/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 516

2.2.4314 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 517

2.2.4315 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 518

2.2.4316 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-^n-a+b_sec-^m.txt

Test file number 118

Integral number in file 519

2.2.4317 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-[^]n-a+b_sec-[^]m.txt

Test file number 118

Integral number in file 520

2.2.4318 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-[^]n-a+b_sec-[^]m.txt

Test file number 118

Integral number in file 521

2.2.4319 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 522

2.2.4320 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{3}{2}}(c + dx)(a + b \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/sec(d*x+c)^(3/2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 627

2.2.4321 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^6(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(d*x+c)^6/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 203

2.2.4322 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 204

2.2.4323 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sin(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 205

2.2.4324 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(csc(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 206

2.2.4325 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 207

2.2.4326 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^6(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(d*x+c)^6/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 208

2.2.4327 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^6(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(d*x+c)^6/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 216

2.2.4328 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 217

2.2.4329 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-^n-a+b_sec-^m.txt

Test file number 119

Integral number in file 218

2.2.4330 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-^n-a+b_sec-^m.txt

Test file number 119

Integral number in file 219

2.2.4331 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 220

2.2.4332 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^6(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(d*x+c)^6/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 228

2.2.4333 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sin(d*x+c)^4/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 229

2.2.4334 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sin(d*x+c)^2/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 230

2.2.4335 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(csc(d*x+c)^2/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 231

2.2.4336 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(csc(d*x+c)^4/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 232

2.2.4337 Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))(e \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+a*sec(d*x+c))*(e*tan(d*x+c))^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 104

2.2.4338 Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))(e \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+a*sec(d*x+c))*(e*tan(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 105

2.2.4339 Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx)) \sqrt{e \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+a*sec(d*x+c))*(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 106

2.2.4340 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{\sqrt{e \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+a*sec(d*x+c))/(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 107

2.2.4341 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{(e \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(d*x+c))/(e*tan(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 108

2.2.4342 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{(e \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(d*x+c))/(e*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 109

2.2.4343 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{(e \tan(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(d*x+c))/(e*tan(d*x+c))^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-[^]n-a+b_sec-[^]m.txt

Test file number 120

Integral number in file 110

2.2.4344 Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))^2 (e \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(d*x+c))^2*(e*tan(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-[^]n-a+b_sec-[^]m.txt

Test file number 120

Integral number in file 111

2.2.4345 Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))^2 (e \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+a*sec(d*x+c))^2*(e*tan(d*x+c))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 112

2.2.4346 Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))^2 \sqrt{e \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+a*sec(d*x+c))^2*(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 113

2.2.4347 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{\sqrt{e \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sec(d*x+c))^2/(e*tan(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 114

2.2.4348 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{(e \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sec(d*x+c))^2/(e*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 115

2.2.4349 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{(e \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sec(d*x+c))^2/(e*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 116

2.2.4350 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{(e \tan(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sec(d*x+c))^2/(e*tan(d*x+c))^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 117

2.2.4351 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \sec(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(5/2)*(a+a*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 233

2.2.4352 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \sec(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(3/2)*(a+a*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 234

2.2.4353 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)}(a + a \sec(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(d*x+c))*(e*cot(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 235

2.2.4354 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(d*x+c))/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 236

2.2.4355 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(d*x+c))/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-[^]n-a+b_sec-[^]m.txt

Test file number 120

Integral number in file 237

2.2.4356 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \sec(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((e*cot(d*x+c))^(5/2)*(a+a*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-[^]n-a+b_sec-[^]m.txt

Test file number 120

Integral number in file 238

2.2.4357 Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \sec(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*cot(d*x+c))^(3/2)*(a+a*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 239

2.2.4358 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + a \sec(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sec(d*x+c))^2*(e*cot(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 240

2.2.4359 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sec(d*x+c))^2/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 241

2.2.4360 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+a*sec(d*x+c))^2/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 242

2.2.4361 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)^6/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 294

2.2.4362 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 295

2.2.4363 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 296

2.2.4364 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 297

2.2.4365 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 298

2.2.4366 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(d*x+c)^6/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 307

2.2.4367 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(tan(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 308

2.2.4368 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(tan(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 309

2.2.4369 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 310

2.2.4370 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cot(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 311

2.2.4371 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{5/2}}{\sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_sec^n.txt

Test file number 121

Integral number in file 104

2.2.4372 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{5/2}}{(c - c \sec(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_sec^n.txt

Test file number 121

Integral number in file 105

2.2.4373 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{7/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-c*sec(f*x+e))^(7/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_sec^n.txt

Test file number 121

Integral number in file 110

2.2.4374 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_sec^n.txt

Test file number 121

Integral number in file 111

2.2.4375 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_sec^n.txt

Test file number 121

Integral number in file 118

2.2.4376 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{7/2}}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-c*sec(f*x+e))^(7/2)/(a+a*sec(f*x+e))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_sec^n.txt

Test file number 121

Integral number in file 124

2.2.4377 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sec(e + fx)}}{\sqrt{c + d \sec(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-ⁿ.txt

Test file number 121

Integral number in file 185

2.2.4378 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sec(e + fx)}}{(c + d \sec(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e))^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-ⁿ.txt

Test file number 121

Integral number in file 186

2.2.4379 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \sec(e + fx)}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c+d*sec(f*x+e))^(1/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see 'assume?' for more details)Is

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 187

2.2.4380 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(e + fx)}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 189

2.2.4381 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(e + fx)}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 190

2.2.4382 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(e + fx)}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 191

2.2.4383 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^2}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))^2/(c+d*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 192

2.2.4384 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^2}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))^2/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 193

2.2.4385 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^2}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))^2/(c+d*sec(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 194

2.2.4386 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^3}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))^3/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 195

2.2.4387 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^3}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))^3/(c+d*sec(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_sec^n.txt

Test file number 121

Integral number in file 196

2.2.4388 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^3}{(c + d \sec(e + fx))^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(f*x+e))^3/(c+d*sec(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_sec^n.txt

Test file number 121

Integral number in file 197

2.2.4389 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^{3/2} (c - c \sec(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^(5/2),x, algorith="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^
n.txt

Test file number 122

Integral number in file 144

2.2.4390 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^{5/2} (c - c \sec(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(3/2),x, algorith="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^
n.txt

Test file number 122

Integral number in file 149

2.2.4391 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 189

2.2.4392 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 190

2.2.4393 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 191

2.2.4394 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 192

2.2.4395 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 197

2.2.4396 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 198

2.2.4397 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 199

2.2.4398 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 200

2.2.4399 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{(c + d \sec(e + fx))^5} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 201

2.2.4400 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 205

2.2.4401 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 206

2.2.4402 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 207

2.2.4403 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 208

2.2.4404 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{(c + d \sec(e + fx))^5} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 209

2.2.4405 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 214

2.2.4406 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 215

2.2.4407 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 216

2.2.4408 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^2(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 222

2.2.4409 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^2 (c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 223

2.2.4410 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^2 (c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 224

2.2.4411 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^3 (c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 231

2.2.4412 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^3 (c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 232

2.2.4413 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^3 (c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)/(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 233

2.2.4414 Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^{3/2} \sqrt{a + a \sec(e + fx)}}{c + d \sec(e + fx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*sec(f*x+e))^(3/2)*(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 239

2.2.4415 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + b \sec(e + fx))}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(f*x+e)*(a+b*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 248

2.2.4416 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + b \sec(e + fx))}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(f*x+e)*(a+b*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 249

2.2.4417 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + b \sec(e + fx))}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+b*sec(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 250

2.2.4418 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + b \sec(e + fx))}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(a+b*sec(f*x+e))/(c+d*sec(f*x+e))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 251

2.2.4419 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^4}{a + b\sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))^4/(a+b*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 252

2.2.4420 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^3}{a + b\sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))^3/(a+b*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 253

2.2.4421 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^2}{a + b\sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))^2/(a+b*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 254

2.2.4422 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))}{a + b\sec(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))/(a+b*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 255

2.2.4423 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + b \sec(e + fx))(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(f*x+e)/(a+b*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 256

2.2.4424 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + b \sec(e + fx))(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(f*x+e)/(a+b*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 257

2.2.4425 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^5}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))^5/(a+b*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 258

2.2.4426 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^4}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))^4/(a+b*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 259

2.2.4427 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^3}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))^3/(a+b*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 260

2.2.4428 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^2}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))^2/(a+b*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 261

2.2.4429 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d \sec(e + fx))}{(a + b \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)*(c+d*sec(f*x+e))/(a+b*sec(f*x+e))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 262

2.2.4430 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + b \sec(e + fx))^2(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(f*x+e)/(a+b*sec(f*x+e))^2/(c+d*sec(f*x+e)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^n.txt

Test file number 122

Integral number in file 263

2.2.4431 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\sec^{\frac{3}{2}}(c + dx)(a + a \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*sec(d*x+c))/sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 222

2.2.4432 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*sec(d*x+c))/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 261

2.2.4433 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec.txt

Test file number 123

Integral number in file 311

2.2.4434 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec.txt

Test file number 123

Integral number in file 312

2.2.4435 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c+dx)(A+B\sec(c+dx))}{a+b\sec(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 313

2.2.4436 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c+dx)(A+B\sec(c+dx))}{a+b\sec(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 314

2.2.4437 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-.txt

Test file number 123

Integral number in file 315

2.2.4438 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-.txt

Test file number 123

Integral number in file 316

2.2.4439 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c+dx)(A+B\sec(c+dx))}{a+b\sec(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec-.txt

Test file number 123

Integral number in file 317

2.2.4440 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c+dx)(A+B\sec(c+dx))}{a+b\sec(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec-.txt

Test file number 123

Integral number in file 318

2.2.4441 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec-.txt

Test file number 123

Integral number in file 319

2.2.4442 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec-.txt

Test file number 123

Integral number in file 320

2.2.4443 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-.txt

Test file number 123

Integral number in file 321

2.2.4444 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-.txt

Test file number 123

Integral number in file 322

2.2.4445 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxi
ma")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-
.txt

Test file number 123

Integral number in file 323

2.2.4446 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-
.txt

Test file number 123

Integral number in file 324

2.2.4447 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-.txt

Test file number 123

Integral number in file 325

2.2.4448 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-.txt

Test file number 123

Integral number in file 326

2.2.4449 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-.txt

Test file number 123

Integral number in file 327

2.2.4450 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^5*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-.txt

Test file number 123

Integral number in file 328

2.2.4451 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-.txt

Test file number 123

Integral number in file 329

2.2.4452 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-.txt

Test file number 123

Integral number in file 330

2.2.4453 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 331

2.2.4454 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 332

2.2.4455 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec.txt

Test file number 123

Integral number in file 333

2.2.4456 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec.txt

Test file number 123

Integral number in file 334

2.2.4457 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-.txt

Test file number 123

Integral number in file 335

2.2.4458 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^5*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-ⁿ-A+B_sec-.txt

Test file number 123

Integral number in file 336

2.2.4459 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-.txt

Test file number 123

Integral number in file 337

2.2.4460 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-.txt

Test file number 123

Integral number in file 338

2.2.4461 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 339

2.2.4462 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 340

2.2.4463 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-.txt

Test file number 123

Integral number in file 341

2.2.4464 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-.txt

Test file number 123

Integral number in file 342

2.2.4465 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec-.txt

Test file number 123

Integral number in file 343

2.2.4466 Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{bB}{a} + B \sec(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*B/a+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec^m-d_sec^n-A+B_sec-.txt

Test file number 123

Integral number in file 344

2.2.4467 Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{aB}{b} + B \sec(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a*B/b+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-
.txt

Test file number 123

Integral number in file 345

2.2.4468 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(c + dx)}{(b + a \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*sec(d*x+c))/(b+a*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-
.txt

Test file number 123

Integral number in file 346

2.2.4469 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\sec^{\frac{3}{2}}(c + dx)(a + b \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*sec(d*x+c))/sec(d*x+c)^(3/2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 434

2.2.4470 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx)(A + B \sec(c + dx))}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^(5/2)*(A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-^m-d_sec-^n-A+B_sec-.txt

Test file number 123

Integral number in file 548

2.2.4471 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\sec^{\frac{3}{2}}(c + dx)(a + a \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+C*sec(d*x+c)^2)/sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 248

2.2.4472 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+C*sec(d*x+c)^2)/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 288

2.2.4473 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sec^{\frac{3}{2}}(c + dx)(a + a \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))
^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 576

2.2.4474 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))
^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 618

2.2.4475 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 676

2.2.4476 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 677

2.2.4477 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 678

2.2.4478 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 679

2.2.4479 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 680

2.2.4480 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 681

2.2.4481 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 682

2.2.4482 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^4*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 683

2.2.4483 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 684

2.2.4484 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 685

2.2.4485 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 686

2.2.4486 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 687

2.2.4487 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 688

2.2.4488 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 689

2.2.4489 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 690

2.2.4490 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 691

2.2.4491 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 692

2.2.4492 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 693

2.2.4493 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 694

2.2.4494 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 695

2.2.4495 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 696

2.2.4496 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 697

2.2.4497 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^4*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 698

2.2.4498 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 699

2.2.4499 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 700

2.2.4500 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 701

2.2.4501 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 702

2.2.4502 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 703

2.2.4503 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 704

2.2.4504 Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a^2-b^2*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 705

2.2.4505 Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a^2-b^2*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 706

2.2.4506 Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a^2-b^2*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 707

2.2.4507 Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \sec^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a^2-b^2*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 708

2.2.4508 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 793

2.2.4509 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 794

2.2.4510 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 795

2.2.4511 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \sec(c + dx) + C \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 796

2.2.4512 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 797

2.2.4513 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 798

2.2.4514 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 799

2.2.4515 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 800

2.2.4516 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 801

2.2.4517 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 802

2.2.4518 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, al
gorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 803

2.2.4519 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \sec(c + dx) + C \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 804

2.2.4520 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 805

2.2.4521 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 806

2.2.4522 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 807

2.2.4523 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 808

2.2.4524 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 809

2.2.4525 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(sec(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 810

2.2.4526 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \sec(c + dx) + C \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 811

2.2.4527 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 812

2.2.4528 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 813

2.2.4529 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 900

2.2.4530 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 901

2.2.4531 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 902

2.2.4532 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 903

2.2.4533 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 904

2.2.4534 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 905

2.2.4535 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 906

2.2.4536 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^4*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 907

2.2.4537 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 908

2.2.4538 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 909

2.2.4539 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 910

2.2.4540 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 911

2.2.4541 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 912

2.2.4542 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 913

2.2.4543 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 914

2.2.4544 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 915

2.2.4545 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 916

2.2.4546 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 917

2.2.4547 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x,
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 918

2.2.4548 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 919

2.2.4549 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 920

2.2.4550 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 921

2.2.4551 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 922

2.2.4552 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^4*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 923

2.2.4553 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 924

2.2.4554 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 925

2.2.4555 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sec(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 926

2.2.4556 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="
maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 927

2.2.4557 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 928

2.2.4558 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x
, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 929

2.2.4559 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c)
),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 930

2.2.4560 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c)
)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-
.txt

Test file number 125

Integral number in file 931

2.2.4561 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 932

2.2.4562 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 933

2.2.4563 Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{(a + b \sec(c + dx))^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^5,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 934

2.2.4564 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sec^{\frac{3}{2}}(c + dx)(a + b \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/sec(d*x+c)^(3/2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 1030

2.2.4565 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c+dx)(A+C\sec^2(c+dx))}{(a+a\sec(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^(5/2)*(A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 1161

2.2.4566 Maxima [F(-2)]

Exception generated.

$$\int \frac{A+C\sec^2(c+dx)}{\cos^{\frac{5}{2}}(c+dx)(a+a\sec(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+C*sec(d*x+c)^2)/cos(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 1172

2.2.4567 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^(5/2)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 1280

2.2.4568 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/cos(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 1291

2.2.4569 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \csc(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(a+b*csc(d*x^2+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x^m-a+b_csc-c+d_x^n-p.txt

Test file number 128

Integral number in file 25

2.2.4570 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x^m-a+b_csc-c+d_x^n-p.txt

Test file number 128

Integral number in file 41

2.2.4571 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x^m-a+b_csc-c+d_x^n-p.txt

Test file number 128

Integral number in file 42

2.2.4572 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x^m-a+b_csc-c+d_x^n-p.txt

Test file number 128

Integral number in file 43

2.2.4573 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x-^m-a+b_csc-c+d_x^n-^p.txt

Test file number 128

Integral number in file 46

2.2.4574 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x-^m-a+b_csc-c+d_x^n-^p.txt

Test file number 128

Integral number in file 47

2.2.4575 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x-^m-a+b_csc-c+d_x-^n-^p.txt

Test file number 128

Integral number in file 48

2.2.4576 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^(3/2)/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x-^m-a+b_csc-c+d_x-^n-^p.txt

Test file number 128

Integral number in file 62

2.2.4577 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^(1/2)/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x-^m-a+b_csc-c+d_x-^n-^p.txt

Test file number 128

Integral number in file 63

2.2.4578 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \csc(c + d\sqrt{x}))} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*csc(c+d*x^(1/2)))/x^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x-^m-a+b_csc-c+d_x-^n-^p.txt

Test file number 128

Integral number in file 64

2.2.4579 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^(3/2)/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x^m-a+b_csc-c+d_x^n-p.txt

Test file number 128

Integral number in file 67

2.2.4580 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^(1/2)/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x^m-a+b_csc-c+d_x^n-p.txt

Test file number 128

Integral number in file 68

2.2.4581 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*csc(c+d*x^(1/2)))^2/x^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.11-e_x-^m-a+b_csc-c+d_x^n-^p.txt

Test file number 128

Integral number in file 69

2.2.4582 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(csc(x)^5/(a+b*csc(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-^n-a+b_csc-^m.txt

Test file number 129

Integral number in file 39

2.2.4583 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 40

2.2.4584 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)^3/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 41

2.2.4585 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 42

2.2.4586 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 43

2.2.4587 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \csc(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*csc(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 44

2.2.4588 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 45

2.2.4589 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 46

2.2.4590 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^3/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 47

2.2.4591 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 48

2.2.4592 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \csc(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*csc(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-ⁿ-a+b_csc-^m.txt

Test file number 129

Integral number in file 49

2.2.4593 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \csc(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*csc(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-[^]n-a+b_csc-[^]m.txt

Test file number 129

Integral number in file 50

2.2.4594 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \csc(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*csc(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_csc-[^]n-a+b_csc-[^]m.txt

Test file number 129

Integral number in file 51

2.2.4595 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.3-d_cos-ⁿ-a+b_csc-^m.txt

Test file number 130

Integral number in file 9

2.2.4596 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.3-d_cos-ⁿ-a+b_csc-^m.txt

Test file number 130

Integral number in file 11

2.2.4597 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.3-d_cos-ⁿ-a+b_csc-^m.txt

Test file number 130

Integral number in file 14

2.2.4598 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.3-d_cos-ⁿ-a+b_csc-^m.txt

Test file number 130

Integral number in file 16

2.2.4599 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.4-d_cot-ⁿ-a+b_csc-^m.txt

Test file number 131

Integral number in file 19

2.2.4600 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tan(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.4-d_cot-ⁿ-a+b_csc-^m.txt

Test file number 131

Integral number in file 20

2.2.4601 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.4-d_cot-ⁿ-a+b_csc-^m.txt

Test file number 131

Integral number in file 21

2.2.4602 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.4-d_cot-ⁿ-a+b_csc-^m.txt

Test file number 131

Integral number in file 22

2.2.4603 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cot(x)^6/(a+b*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.4-d_cot-ⁿ-a+b_csc-^m.txt

Test file number 131

Integral number in file 23

2.2.4604 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(cos(d*x+c)^5/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 150

2.2.4605 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^4/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 151

2.2.4606 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^3/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 152

2.2.4607 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^2/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 153

2.2.4608 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 154

2.2.4609 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^5/(a*cos(d*x+c)+I*a*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 163

2.2.4610 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^4/(a*cos(d*x+c)+I*a*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 164

2.2.4611 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^3/(a*cos(d*x+c)+I*a*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 165

2.2.4612 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^2/(a*cos(d*x+c)+I*a*sin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 166

2.2.4613 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(d*x+c)^5/(a*cos(d*x+c)+I*a*sin(d*x+c))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 175

2.2.4614 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^4/(a*cos(d*x+c)+I*a*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 176

2.2.4615 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(d*x+c)^3/(a*cos(d*x+c)+I*a*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 177

2.2.4616 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^3/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^~n.txt

Test file number 136

Integral number in file 257

2.2.4617 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)^2/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^~n.txt

Test file number 136

Integral number in file 258

2.2.4618 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(d*x+c)/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 259

2.2.4619 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 260

2.2.4620 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 261

2.2.4621 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^2/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 262

2.2.4622 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(d*x+c)^3/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 263

2.2.4623 Maxima [F(-2)]

Exception generated.

$$\int x^3 \cos^2(x) \cot^2(x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*cos(x)^2*cot(x)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 202

2.2.4624 Maxima [F(-2)]

Exception generated.

$$\int x^2 \cos^2(x) \cot^2(x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*cos(x)^2*cot(x)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 203

2.2.4625 Maxima [F(-2)]

Exception generated.

$$\int x \cos^2(x) \cot^2(x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*cos(x)^2*cot(x)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 204

2.2.4626 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(a + i \log(x))}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(tan(a+I*log(x))^2/x^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 149

2.2.4627 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(a + i \log(x))}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cot(a+I*log(x))^2/x^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 200

2.2.4628 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \cos(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*cos(x)/(a+b*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 153

2.2.4629 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \cos(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*cos(x)/(a+b*sin(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 154

2.2.4630 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sin(x)}{(a + b \cos(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*sin(x)/(a+b*cos(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 155

2.2.4631 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sin(x)}{(a + b \cos(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*sin(x)/(a+b*cos(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 156

2.2.4632 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(b + a \sin(x))}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b+a*sin(x))/(a+b*sin(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 199

2.2.4633 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(b + a \cos(x))}{(a + b \cos(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b+a*cos(x))/(a+b*cos(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 200

2.2.4634 Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + \frac{c^2}{d^2} + \sin^2(x)}{c + d \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((-1+c^2/d^2+sin(x)^2)/(c+d*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 205

2.2.4635 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin^2(x)}{c + d \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(x)^2)/(c+d*cos(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 206

2.2.4636 Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + \frac{c^2}{d^2} + \cos^2(x)}{c + d \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((-1+c^2/d^2+cos(x)^2)/(c+d*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 210

2.2.4637 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cos^2(x)}{c + d \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*cos(x)^2)/(c+d*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 211

2.2.4638 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^2(x)}{c + d \cos(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*sec(x)^2)/(c+d*cos(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 215

2.2.4639 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^2(x)}{c + d \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*csc(x)^2)/(c+d*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 216

2.2.4640 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sec(x) + b \tan(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*sec(x)+b*tan(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 269

2.2.4641 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sec(x) + b \tan(x))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*sec(x)+b*tan(x))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 271

2.2.4642 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cot(x) + b \csc(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*cot(x)+b*csc(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 289

2.2.4643 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cot(x) + b \csc(x))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*cot(x)+b*csc(x))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 291

2.2.4644 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 360

2.2.4645 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 361

2.2.4646 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 362

2.2.4647 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cos(e*x+d)+c*sin(e*x+d)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 399

2.2.4648 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(d + ex) + c \sin(d + ex))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cos(e*x+d)+c*sin(e*x+d))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 400

2.2.4649 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(d + ex) + c \sin(d + ex))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cos(e*x+d)+c*sin(e*x+d))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 401

2.2.4650 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(d + ex) + c \sin(d + ex))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cos(e*x+d)+c*sin(e*x+d))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 402

2.2.4651 Maxima [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{7/2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 430

2.2.4652 Maxima [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{5/2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 431

2.2.4653 Maxima [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 432

2.2.4654 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 433

2.2.4655 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 434

2.2.4656 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 435

2.2.4657 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 436

2.2.4658 Maxima [F(-2)]

Exception generated.

$$\int \left(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{5/2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 437

2.2.4659 Maxima [F(-2)]

Exception generated.

$$\int \left(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 438

2.2.4660 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 439

2.2.4661 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 440

2.2.4662 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 441

2.2.4663 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(5/2),x, algorithm=
"maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 442

2.2.4664 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sin(x)/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for
more de
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 443

2.2.4665 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + c \sec(x) + b \tan(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c*sec(x)+b*tan(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 445

2.2.4666 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(x)}{a + c \sec(x) + b \tan(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(x)/(a+c*sec(x)+b*tan(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 446

2.2.4667 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(x)}{a + c \sec(x) + b \tan(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sec(x)^2/(a+c*sec(x)+b*tan(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 447

2.2.4668 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cot(x) + c \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cot(x)+c*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 458

2.2.4669 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{a + b \cot(x) + c \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)/(a+b*cot(x)+c*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 459

2.2.4670 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{a + b \cot(x) + c \csc(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csc(x)^2/(a+b*cot(x)+c*csc(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 460

2.2.4671 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(d + ex)}{b^2 + 2ab \sin(d + ex) + a^2 \sin^2(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(e*x+d))/(b^2+2*a*b*sin(e*x+d)+a^2*sin(e*x+d)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 501

2.2.4672 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(d + ex)}{(b^2 + 2ab \sin(d + ex) + a^2 \sin^2(d + ex))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sin(e*x+d))/(b^2+2*a*b*sin(e*x+d)+a^2*sin(e*x+d)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 502

2.2.4673 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(d + ex)}{\sqrt{b^2 + 2ab \sin(d + ex) + a^2 \sin^2(d + ex)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*sin(e*x+d))/(b^2+2*a*b*sin(e*x+d)+a^2*sin(e*x+d)^2)^(1/2),x,
algorithm="maxima")
```

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 506

2.2.4674 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(d + ex)}{(b^2 + 2ab \sin(d + ex) + a^2 \sin^2(d + ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*sin(e*x+d))/(b^2+2*a*b*sin(e*x+d)+a^2*sin(e*x+d)^2)^(3/2),x,
algorithm="maxima")
```

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 507

2.2.4675 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cos(x)}{b^2 + 2ab \cos(x) + a^2 \cos^2(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cos(x))/(b^2+2*a*b*cos(x)+a^2*cos(x)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 508

2.2.4676 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(d + ex)}{b^2 + 2ab \sec(d + ex) + a^2 \sec^2(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*sec(e*x+d))/(b^2+2*a*b*sec(e*x+d)+a^2*sec(e*x+d)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 520

2.2.4677 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(d + ex)}{(b^2 + 2ab \sec(d + ex) + a^2 \sec^2(d + ex))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*sec(e*x+d))/(b^2+2*a*b*sec(e*x+d)+a^2*sec(e*x+d)^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 521

2.2.4678 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(d + ex)}{\sqrt{b^2 + 2ab \sec(d + ex) + a^2 \sec^2(d + ex)}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*sec(e*x+d))/(b^2+2*a*b*sec(e*x+d)+a^2*sec(e*x+d)^2)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 524

2.2.4679 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(d + ex)}{(b^2 + 2ab \sec(d + ex) + a^2 \sec^2(d + ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*sec(e*x+d))/(b^2+2*a*b*sec(e*x+d)+a^2*sec(e*x+d)^2)^(3/2),x,
algorithm="maxima")
```

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 525

2.2.4680 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(x) - i \sin(x)}{\cos(x) + i \sin(x)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((cos(x)-I*sin(x))/(cos(x)+I*sin(x)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 526

2.2.4681 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(x) + i \sin(x)}{\cos(x) - i \sin(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((cos(x)+I*sin(x))/(cos(x)-I*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 527

2.2.4682 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cos(x))/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 535

2.2.4683 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 536

2.2.4684 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{(a + b \cos(x) + c \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(x))/(a+b*cos(x)+c*sin(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 537

2.2.4685 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{a + b \cos(x) + ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((A+B*cos(x))/(a+b*cos(x)+I*b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 538

2.2.4686 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{a + b \cos(x) - ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((A+B*cos(x))/(a+b*cos(x)-I*b*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 539

2.2.4687 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*sin(x))/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 540

2.2.4688 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*sin(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 541

2.2.4689 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{(a + b \cos(x) + c \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+C*sin(x))/(a+b*cos(x)+c*sin(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 542

2.2.4690 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{a + b \cos(x) + ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+C*sin(x))/(a+b*cos(x)+I*b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 543

2.2.4691 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{a + b \cos(x) - ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+C*sin(x))/(a+b*cos(x)-I*b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 544

2.2.4692 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 545

2.2.4693 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 546

2.2.4694 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{(a + b \cos(x) + c \sin(x))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 547

2.2.4695 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{a + b \cos(x) + ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)+I*b*sin(x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 548

2.2.4696 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{a + b \cos(x) - ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)-I*b*sin(x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 549

2.2.4697 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 550

2.2.4698 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 551

2.2.4699 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{(a + b \cos(x) + c \sin(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 552

2.2.4700 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{a + b \cos(x) + ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)+I*b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 553

2.2.4701 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{a + b \cos(x) - ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)-I*b*sin(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 554

2.2.4702 Maxima [F(-2)]

Exception generated.

$$\int \frac{b^2 + c^2 + ab \cos(x) + ac \sin(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2+c^2+a*b*cos(x)+a*c*sin(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 555

2.2.4703 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{a + c \sin(d + ex)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+c*sin(e*x+d)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 562

2.2.4704 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + c \sin(d + ex))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+c*sin(e*x+d))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 563

2.2.4705 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + c \sin(d + ex))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+c*sin(e*x+d))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*a^2>0)', see 'assume?' for more details)
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 564

2.2.4706 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + c \sin(d + ex))^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+c*sin(e*x+d))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 565

2.2.4707 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(c + dx) \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cos(d*x+c)*sin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 570

2.2.4708 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx) \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cos(d*x+c)*sin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 571

2.2.4709 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx) \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*cos(d*x+c)*sin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 572

2.2.4710 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^6(ax)}{x^4(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(a*x)^6/x^4/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 585

2.2.4711 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(ax)}{x^3(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(a*x)^5/x^3/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 586

2.2.4712 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(ax)}{x^2(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(a*x)^4/x^2/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 587

2.2.4713 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(ax)}{x(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sin(a*x)^3/x/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 588

2.2.4714 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \csc(ax)}{(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*csc(a*x)/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 592

2.2.4715 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(ax)}{x^4(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(a*x)^6/x^4/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 594

2.2.4716 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(ax)}{x^3(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(a*x)^5/x^3/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 595

2.2.4717 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(ax)}{x^2(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cos(a*x)^4/x^2/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 596

2.2.4718 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(ax)}{x(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cos(a*x)^3/x/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 597

2.2.4719 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sec(ax)}{(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*sec(a*x)/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 601

2.2.4720 Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x) \sec(x)}{\sqrt{\sin(2x)(-2 + \tan(x))}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csc(x)^2*sec(x)/sin(2*x)^(1/2)/(-2+tan(x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 634

2.2.4721 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \sin(2x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sin(x)^2/(a+b*sin(2*x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 846

2.2.4722 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(x)}{a + b \sin(2x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(x)^2/(a+b*sin(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 847

2.2.4723 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \cos(2x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sin(x)^2/(a+b*cos(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 848

2.2.4724 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(x)}{a + b \cos(2x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cos(x)^2/(a+b*cos(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 849

2.2.4725 Maxima [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*arcsin(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 74

2.2.4726 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*arcsin(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 75

2.2.4727 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arcsin(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 76

2.2.4728 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 77

2.2.4729 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 78

2.2.4730 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 79

2.2.4731 Maxima [F(-2)]

Exception generated.

$$\int x^4 \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 80

2.2.4732 Maxima [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*arcsin(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 81

2.2.4733 Maxima [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arcsin(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 82

2.2.4734 Maxima [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arcsin(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 83

2.2.4735 Maxima [F(-2)]

Exception generated.

$$\int \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arcsin(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 84

2.2.4736 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 85

2.2.4737 Maxima [F(-2)]

Exception generated.

$$\int x^4 \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 86

2.2.4738 Maxima [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*arcsin(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 87

2.2.4739 Maxima [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arcsin(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 88

2.2.4740 Maxima [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arcsin(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 89

2.2.4741 Maxima [F(-2)]

Exception generated.

$$\int \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arcsin(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 90

2.2.4742 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(5/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 91

2.2.4743 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 92

2.2.4744 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 93

2.2.4745 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 94

2.2.4746 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 95

2.2.4747 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 96

2.2.4748 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 97

2.2.4749 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 98

2.2.4750 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^6/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 99

2.2.4751 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^5/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 100

2.2.4752 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 101

2.2.4753 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 102

2.2.4754 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 103

2.2.4755 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 104

2.2.4756 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 105

2.2.4757 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 106

2.2.4758 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 107

2.2.4759 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 108

2.2.4760 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 109

2.2.4761 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 110

2.2.4762 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/arcsin(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 111

2.2.4763 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x/arcsin(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 112

2.2.4764 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/arcsin(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 113

2.2.4765 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arcsin(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 114

2.2.4766 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/arcsin(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 115

2.2.4767 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arcsin(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 116

2.2.4768 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arcsin(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 117

2.2.4769 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arcsin(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 118

2.2.4770 Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^m*arcsin(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 125

2.2.4771 Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^m*arcsin(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 126

2.2.4772 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x)^m/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 127

2.2.4773 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x)^m/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 128

2.2.4774 Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^m*arcsin(a*x)^n,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 129

2.2.4775 Maxima [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*arcsin(a*x)^n,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 130

2.2.4776 Maxima [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arcsin(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 131

2.2.4777 Maxima [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arcsin(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 132

2.2.4778 Maxima [F(-2)]

Exception generated.

$$\int \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 133

2.2.4779 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^n/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 134

2.2.4780 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^n/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 135

2.2.4781 Maxima [F(-2)]

Exception generated.

$$\int (bx)^{3/2} \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x)^(3/2)*arcsin(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 136

2.2.4782 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{bx} \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x)^(1/2)*arcsin(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 137

2.2.4783 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{\sqrt{bx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^n/(b*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x^m-a+b_arcsin-c_x^n.txt

Test file number 142

Integral number in file 138

2.2.4784 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{(bx)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arcsin(a*x)^n/(b*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 139

2.2.4785 Maxima [F(-2)]

Exception generated.

$$\int \left(-\frac{3x}{8(1-x^2)\sqrt{\arcsin(x)}} + \frac{x \arcsin(x)^{3/2}}{(1-x^2)^2} \right) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arcsin(x)^(3/2)/(-x^2+1)^2-3/8*x/(-x^2+1)/arcsin(x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x-^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 441

2.2.4786 Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^m-d+e_x^2-
^p-a+b_arcsin-c_x^n.txt

Test file number 143

Integral number in file 442

2.2.4787 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^m-d+e_x^2-
^p-a+b_arcsin-c_x^n.txt

Test file number 143

Integral number in file 443

2.2.4788 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 444

2.2.4789 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 445

2.2.4790 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 446

2.2.4791 Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 447

2.2.4792 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 448

2.2.4793 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 449

2.2.4794 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 450

2.2.4795 Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 451

2.2.4796 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 452

2.2.4797 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 453

2.2.4798 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 454

2.2.4799 Maxima [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \sqrt{\arcsin\left(\frac{x}{a}\right)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2-x^2)^(3/2)*arcsin(x/a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 455

2.2.4800 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \sqrt{\arcsin\left(\frac{x}{a}\right)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2-x^2)^(1/2)*arcsin(x/a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 456

2.2.4801 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 457

2.2.4802 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 458

2.2.4803 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 459

2.2.4804 Maxima [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \arcsin\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2-x^2)^(3/2)*arcsin(x/a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^m-d+e_x^2-p-a+b_arcsin-c_x^n.txt

Test file number 143

Integral number in file 460

2.2.4805 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \arcsin\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2-x^2)^(1/2)*arcsin(x/a)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^m-d+e_x^2-p-a+b_arcsin-c_x^n.txt

Test file number 143

Integral number in file 461

2.2.4806 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 462

2.2.4807 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 463

2.2.4808 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arcsin(x)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(-x^2+1)^(1/2)/arcsin(x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 464

2.2.4809 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 465

2.2.4810 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt
```

```
Test file number 143
```

```
Integral number in file 466
```

2.2.4811 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt
```

```
Test file number 143
```

```
Integral number in file 467
```


2.2.4812 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2cx^2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 468

2.2.4813 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 469

2.2.4814 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 470

2.2.4815 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 471

2.2.4816 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 472

2.2.4817 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 473

2.2.4818 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2 cx^2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 474

2.2.4819 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 475

2.2.4820 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 476

2.2.4821 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 477

2.2.4822 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 478

2.2.4823 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2cx^2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 479

2.2.4824 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 480

2.2.4825 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 481

2.2.4826 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 497

2.2.4827 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 498

2.2.4828 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 499

2.2.4829 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 500

2.2.4830 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{x\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^n/x/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 502

2.2.4831 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{x^2\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(a*x)^n/x^2/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 503

2.2.4832 Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2} \sqrt{e - cex} (a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(5/2)*(a+b*arcsin(c*x))^2*(-c*e*x+e)^(1/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 540

2.2.4833 Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2} \sqrt{e - cex} (a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(3/2)*(a+b*arcsin(c*x))^2*(-c*e*x+e)^(1/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 541

2.2.4834 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cdx}\sqrt{e-cex}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 542

2.2.4835 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e-cex}(a+b\arcsin(cx))^2}{\sqrt{d+cdx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2*(-c*e*x+e)^(1/2)/(c*d*x+d)^(1/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 543

2.2.4836 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e - cex}(a + b \arcsin(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2*(-c*e*x+e)^(1/2)/(c*d*x+d)^(3/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 544

2.2.4837 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e - cex}(a + b \arcsin(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2*(-c*e*x+e)^(1/2)/(c*d*x+d)^(5/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 545

2.2.4838 Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(5/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 546

2.2.4839 Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 547

2.2.4840 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cdx}(e-cex)^{3/2}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 548

2.2.4841 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e-cex)^{3/2}(a+b\arcsin(cx))^2}{\sqrt{d+cdx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 549

2.2.4842 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{3/2}(a + b \arcsin(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 550

2.2.4843 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{3/2}(a + b \arcsin(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 551

2.2.4844 Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2}(e - cex)^{5/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(5/2)*(-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 552

2.2.4845 Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2}(e - cex)^{5/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 553

2.2.4846 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cdx}(e-cex)^{5/2}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 554

2.2.4847 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e-cex)^{5/2}(a+b\arcsin(cx))^2}{\sqrt{d+cdx}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 555

2.2.4848 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{5/2}(a + b \arcsin(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 556

2.2.4849 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{5/2}(a + b \arcsin(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 557

2.2.4850 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{5/2}(a + b \arcsin(cx))^2}{\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*d*x+d)^(5/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 558

2.2.4851 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(a + b \arcsin(cx))^2}{\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*d*x+d)^(3/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 559

2.2.4852 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}(a+b\arcsin(cx))^2}{\sqrt{e-cex}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(1/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 560

2.2.4853 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+b\arcsin(cx))^2}{\sqrt{d+cdx}\sqrt{e-cex}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 561

2.2.4854 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + cdx)^{3/2} \sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(1/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 562

2.2.4855 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + cdx)^{5/2} \sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2)/(-c*e*x+e)^(1/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 563

2.2.4856 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{5/2}(a + b \arcsin(cx))^2}{(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*d*x+d)^(5/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 564

2.2.4857 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(a + b \arcsin(cx))^2}{(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*d*x+d)^(3/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 565

2.2.4858 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}(a+b\arcsin(cx))^2}{(e-cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(1/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(3/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 566

2.2.4859 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+b\arcsin(cx))^2}{\sqrt{d+cdx}(e-cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(3/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 567

2.2.4860 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + cdx)^{5/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2)/(-c*e*x+e)^(3/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 569

2.2.4861 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{5/2}(a + b \arcsin(cx))^2}{(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(5/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(5/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 570

2.2.4862 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(a + b \arcsin(cx))^2}{(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*d*x+d)^(3/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 571

2.2.4863 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + cdx}(a + b \arcsin(cx))^2}{(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((c*d*x+d)^(1/2)*(a+b*arcsin(c*x))^2/(-c*e*x+e)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 572

2.2.4864 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + cx}(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(5/2),x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 573

2.2.4865 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + cx} \sqrt{e - cex} (a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algor
ithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 576

2.2.4866 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{d+cdx}\sqrt{e-cex}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 577

2.2.4867 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cdx}\sqrt{e-cex}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 578

2.2.4868 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}\sqrt{e-cex}(a+b\arcsin(cx))^2}{x} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2/x,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 579

2.2.4869 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}\sqrt{e-cex}(a+b\arcsin(cx))^2}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 580

2.2.4870 Maxima [F(-2)]

Exception generated.

$$\int x^2(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 581

2.2.4871 Maxima [F(-2)]

Exception generated.

$$\int x(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 582

2.2.4872 Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm
="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 583

2.2.4873 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/x,x, algorit
hm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 584

2.2.4874 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/x^2,x, algo
ithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 585

2.2.4875 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))^2}{\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algo
ithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 586

2.2.4876 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{\sqrt{d + cx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 587

2.2.4877 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + cx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 588

2.2.4878 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))^2/x/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 589

2.2.4879 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))^2/x^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 590

2.2.4880 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))^2}{(d + cdx)^{3/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 591

2.2.4881 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x(d + cdx)^{3/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/x/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 594

2.2.4882 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2(d + cdx)^{3/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/x^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 595

2.2.4883 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^4*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 624

2.2.4884 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 626

2.2.4885 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 628

2.2.4886 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 630
```

2.2.4887 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))/x^4/(e*x^2+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 632
```

2.2.4888 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 634

2.2.4889 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^4*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 637

2.2.4890 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 638
```

2.2.4891 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 639
```


2.2.4892 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 640

2.2.4893 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 646

2.2.4894 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 647

2.2.4895 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 648

2.2.4896 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \arcsin(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 649

2.2.4897 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 650

2.2.4898 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e+c^2*d>0)', see 'assume?' for more
detail
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 651
```

2.2.4899 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(e*x^2+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 663
```

2.2.4900 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 664

2.2.4901 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 665

2.2.4902 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e+c^2*d>0)', see 'assume?' for more
detail
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 666

2.2.4903 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(c*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 689

2.2.4904 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arcsin(c*x))^(3/2)/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 693

2.2.4905 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(e*x^2+d)/(a+b*arcsin(c*x))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 698

2.2.4906 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 6

2.2.4907 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 7

2.2.4908 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 14

2.2.4909 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 15

2.2.4910 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 34

2.2.4911 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{(f + gx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 35

2.2.4912 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 39

2.2.4913 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 43

2.2.4914 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(c*x))^2*(-c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 61

2.2.4915 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 65

2.2.4916 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 69

2.2.4917 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 92

2.2.4918 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 93

2.2.4919 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 101

2.2.4920 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 102

2.2.4921 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2 + ix^3)(a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((i*x^3+h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 110

2.2.4922 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2 + ix^3)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((i*x^3+h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 111

2.2.4923 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)*(a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 113

2.2.4924 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((g*x+f)^2*(a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 114

2.2.4925 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)(a + b \arcsin(cx))^2}{(g + hx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((f*x^2+e*x+d)*(a+b*arcsin(c*x))^2/(h*x+g)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(h-c*g>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 119

2.2.4926 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ef + 2dhx + ehx^2)(a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*h*x^2+2*d*h*x+e*f)*(a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 120

2.2.4927 Maxima [F(-2)]

Exception generated.

$$\int \frac{(ef + 2dhx + ehx^2)^2(a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*h*x^2+2*d*h*x+e*f)^2*(a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 121

2.2.4928 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(arcsin(b*x+a)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 127

2.2.4929 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(arcsin(b*x+a)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 128

2.2.4930 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(arcsin(b*x+a)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 129

2.2.4931 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate(arcsin(b*x+a)/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 130

2.2.4932 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)^2}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arcsin(b*x+a)^2/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 136

2.2.4933 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)^2}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arcsin(b*x+a)^2/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 137

2.2.4934 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)^3}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arcsin(b*x+a)^3/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 142

2.2.4935 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 183

2.2.4936 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 194

2.2.4937 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))^3/(d*e*x+c*e)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 203

2.2.4938 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^4}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x+c))^4/(d*e*x+c*e)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 211

2.2.4939 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + b \arcsin(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsin(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 281

2.2.4940 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2}(a + b \arcsin(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(5/2)*(a+b*arcsin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 282

2.2.4941 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2}(a + b \arcsin(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(3/2)*(a+b*arcsin(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 283

2.2.4942 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + b \arcsin(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] integrate((d*e*x+c*e)^(1/2)*(a+b*arcsin(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 284

2.2.4943 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 285

2.2.4944 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 286

2.2.4945 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 287

2.2.4946 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 288

2.2.4947 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 289

2.2.4948 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{11/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(11/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 290

2.2.4949 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + b \arcsin(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((d*e*x+c*e)^(7/2)*(a+b*arcsin(d*x+c))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 291

2.2.4950 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + b \arcsin(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(5/2)*(a+b*arcsin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 292

2.2.4951 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + b \arcsin(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(3/2)*(a+b*arcsin(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 293

2.2.4952 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + b \arcsin(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(1/2)*(a+b*arcsin(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 294

2.2.4953 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 295

2.2.4954 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 296

2.2.4955 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 297

2.2.4956 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 298

2.2.4957 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(9/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 299

2.2.4958 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + b \arcsin(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] integrate((d*e*x+c*e)^(1/2)*(a+b*arcsin(d*x+c))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 300

2.2.4959 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))^3/(d*e*x+c*e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 301

2.2.4960 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^3/(d*e*x+c*e)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 302

2.2.4961 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsin(d*x+c))^3/(d*e*x+c*e)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 303

2.2.4962 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + b \arcsin(c + dx))^4 dx = \text{Exception raised: ValueError}$$

[In] integrate((d*e*x+c*e)^(1/2)*(a+b*arcsin(d*x+c))^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 304

2.2.4963 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^4}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))^4/(d*e*x+c*e)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 305

2.2.4964 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^4}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))^4/(d*e*x+c*e)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 306

2.2.4965 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^4}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x+c))^4/(d*e*x+c*e)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 307

2.2.4966 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)^n}{\sqrt{1 - a^2 - 2abx - b^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(b*x+a)^n/(-b^2*x^2-2*a*b*x-a^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 327

2.2.4967 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsin(d*x^2+c))/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 390

2.2.4968 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x^2+c))/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 391

2.2.4969 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^7} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x^2+c))/x^7,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 392

2.2.4970 Maxima [F(-2)]

Exception generated.

$$\int x^4(a + b \arcsin(c + dx^2)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4*(a+b*arcsin(d*x^2+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 393

2.2.4971 Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \arcsin(c + dx^2)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arcsin(d*x^2+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 394

2.2.4972 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx^2)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(a+b*arcsin(d*x^2+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 395

2.2.4973 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x^2+c))/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 396

2.2.4974 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x^2+c))/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 397

2.2.4975 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsin(d*x^2+c))/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 398

2.2.4976 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^4 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(d*x^2+1))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 401

2.2.4977 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^3 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(d*x^2+1))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 402

2.2.4978 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(d*x^2+1))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 403

2.2.4979 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \arcsin(1 + dx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arcsin(d*x^2+1)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 405

2.2.4980 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*arcsin(d*x^2+1))^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 406

2.2.4981 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*arcsin(d*x^2+1))^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 407

2.2.4982 Maxima [F(-2)]

Exception generated.

$$\int \arcsin(1+x^2)^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin(x^2+1)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 415

2.2.4983 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(d*x^2+1))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 417

2.2.4984 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arcsin(d*x^2+1))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 418

2.2.4985 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(1 + dx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arcsin(d*x^2+1))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 419

2.2.4986 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(1 + dx^2)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arcsin(d*x^2+1))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 420

2.2.4987 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arcsin(d*x^2+1))^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 421

2.2.4988 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arcsin(d*x^2+1))^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 422

2.2.4989 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arcsin(d*x^2+1))^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 423

2.2.4990 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(\sqrt{1+bx^2})^n}{\sqrt{1+bx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arcsin((b*x^2+1)^(1/2))^n/(b*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(-_SAGE_VAR_b)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 471

2.2.4991 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{1+bx^2} \arcsin(\sqrt{1+bx^2})} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arcsin((b*x^2+1)^(1/2))/(b*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(-_SAGE_VAR_b)

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 472

2.2.4992 Maxima [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^-m-a+b_arccos-c_x^-n.txt

Test file number 145

Integral number in file 74

2.2.4993 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^-m-a+b_arccos-c_x^-n.txt

Test file number 145

Integral number in file 75

2.2.4994 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arccos(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-c_x-[^]n.txt

Test file number 145

Integral number in file 76

2.2.4995 Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arccos(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-c_x-[^]n.txt

Test file number 145

Integral number in file 77

2.2.4996 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 78

2.2.4997 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(a*x)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 79

2.2.4998 Maxima [F(-2)]

Exception generated.

$$\int x^4 \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*arccos(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 80

2.2.4999 Maxima [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*arccos(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 81

2.2.5000 Maxima [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arccos(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 82

2.2.5001 Maxima [F(-2)]

Exception generated.

$$\int x \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arccos(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 83

2.2.5002 Maxima [F(-2)]

Exception generated.

$$\int \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 84

2.2.5003 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(a*x)^(3/2)/x,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 85

2.2.5004 Maxima [F(-2)]

Exception generated.

$$\int x^4 \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*arccos(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 86

2.2.5005 Maxima [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*arccos(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 87

2.2.5006 Maxima [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arccos(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 88

2.2.5007 Maxima [F(-2)]

Exception generated.

$$\int x \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arccos(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 89

2.2.5008 Maxima [F(-2)]

Exception generated.

$$\int \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arccos(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 90

2.2.5009 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arccos(a*x)^(5/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 91

2.2.5010 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 92

2.2.5011 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 93

2.2.5012 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 94

2.2.5013 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 95

2.2.5014 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 96

2.2.5015 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 97

2.2.5016 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/arccos(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 98

2.2.5017 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^6/arccos(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 99

2.2.5018 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^5/arccos(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 100

2.2.5019 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/arccos(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 101

2.2.5020 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arccos(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 102

2.2.5021 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/arccos(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 103

2.2.5022 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arccos(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 104

2.2.5023 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arccos(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 105

2.2.5024 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x/arccos(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 106

2.2.5025 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4/arccos(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 107

2.2.5026 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arccos(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 108

2.2.5027 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/arccos(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 109

2.2.5028 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x/arccos(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 110

2.2.5029 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/arccos(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 111

2.2.5030 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arccos(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 112

2.2.5031 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/arccos(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 113

2.2.5032 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arccos(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 114

2.2.5033 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/arccos(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 115

2.2.5034 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arccos(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 116

2.2.5035 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arccos(a*x)^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 117

2.2.5036 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x/arccos(a*x)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_xⁿ.txt

Test file number 145

Integral number in file 118

2.2.5037 Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^m*arccos(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_xⁿ.txt

Test file number 145

Integral number in file 125

2.2.5038 Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^m*arccos(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^-m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 126

2.2.5039 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^m/arccos(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^-m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 127

2.2.5040 Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^m/arccos(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 128

2.2.5041 Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^m*arccos(a*x)^n,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 129

2.2.5042 Maxima [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arccos(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 130

2.2.5043 Maxima [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arccos(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 131

2.2.5044 Maxima [F(-2)]

Exception generated.

$$\int x \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arccos(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^-m-a+b_arccos-c_x^-n.txt

Test file number 145

Integral number in file 132

2.2.5045 Maxima [F(-2)]

Exception generated.

$$\int \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arccos(a*x)^n,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^-m-a+b_arccos-c_x^-n.txt

Test file number 145

Integral number in file 133

2.2.5046 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arccos(a*x)^n/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 134

2.2.5047 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arccos(a*x)^n/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 135

2.2.5048 Maxima [F(-2)]

Exception generated.

$$\int (bx)^{3/2} \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x)^(3/2)*arccos(a*x)^n,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 136

2.2.5049 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{bx} \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(a*x)^n*(b*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 137

2.2.5050 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{\sqrt{bx}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(a*x)^n/(b*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 138

2.2.5051 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{(bx)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(a*x)^n/(b*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x^m-a+b_arccos-c_x^n.txt

Test file number 145

Integral number in file 139

2.2.5052 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)}{(c+dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccos(a*x)/(d*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.4-f_x-^m-d+e_x^2-
^p-a+b_arccos-c_x-^n.txt

Test file number 146

Integral number in file 31

2.2.5053 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)}{(c+dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccos(a*x)/(d*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.4-f_x-^m-d+e_x^2-
^p-a+b_arccos-c_x-^n.txt

Test file number 146

Integral number in file 32

2.2.5054 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)}{(c + dx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccos(a*x)/(d*x^2+c)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.4-f_x^-m-d+e_x^2-
^p-a+b_arccos-c_x^-n.txt

Test file number 146

Integral number in file 33

2.2.5055 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccos(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 4

2.2.5056 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arccos(cx))}{(f + gx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccos(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 5

2.2.5057 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 9

2.2.5058 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 13

2.2.5059 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(a + bx)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccos(b*x+a)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 29

2.2.5060 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(a + bx)}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccos(b*x+a)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 30

2.2.5061 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(a + bx)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccos(b*x+a)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 31

2.2.5062 Maxima [F(-2)]

Exception generated.

$$\int \arccos(a + bx)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 37

2.2.5063 Maxima [F(-2)]

Exception generated.

$$\int \arccos(a + bx)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccos(b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 38

2.2.5064 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\arccos(a + bx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arccos(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 39

2.2.5065 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arccos(a + bx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arccos(b*x+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 40

2.2.5066 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(a + bx)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/arccos(b*x+a)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 41

2.2.5067 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(a + bx)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/arccos(b*x+a)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 42

2.2.5068 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^4 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccos(d*x^2+1))^4,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 73

2.2.5069 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccos(d*x^2+1))^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 74

2.2.5070 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccos(d*x^2+1))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 75

2.2.5071 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \arccos(1 + dx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arccos(d*x^2+1)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 77

2.2.5072 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arccos(d*x^2+1))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 78

2.2.5073 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arccos(d*x^2+1))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 79

2.2.5074 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccos(d*x^2+1))^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 87

2.2.5075 Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccos(d*x^2+1))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 88

2.2.5076 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(1 + dx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccos(d*x^2+1))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 89

2.2.5077 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(1 + dx^2)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arccos(d*x^2+1))^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 90

2.2.5078 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*arccos(d*x^2+1))^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 91

2.2.5079 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*arccos(d*x^2+1))^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found `sqrt((-SAGE_VAR_d*SAGE_VAR_x^2)-2)`

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 92

2.2.5080 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*arccos(d*x^2+1))^(7/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 93

2.2.5081 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arccos(x)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(-x^2+1)^(1/2)/arccos(x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 115

2.2.5082 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(\sqrt{1+bx^2})^n}{\sqrt{1+bx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arccos((b*x^2+1)^(1/2))^n/(b*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(-_SAGE_VAR_b)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 117

2.2.5083 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{1+bx^2} \arccos(\sqrt{1+bx^2})} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arccos((b*x^2+1)^(1/2))/(b*x^2+1)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(-_SAGE_VAR_b)

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 118

2.2.5084 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 41

2.2.5085 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 42

2.2.5086 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n^p.txt

Test file number 148

Integral number in file 43

2.2.5087 Maxima [F(-2)]

Exception generated.

$$\int x \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n^p.txt

Test file number 148

Integral number in file 44

2.2.5088 Maxima [F(-2)]

Exception generated.

$$\int \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 45

2.2.5089 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 46

2.2.5090 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 47

2.2.5091 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 48

2.2.5092 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n^p.txt

Test file number 148

Integral number in file 49

2.2.5093 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n^p.txt

Test file number 148

Integral number in file 50

2.2.5094 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 51

2.2.5095 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.2-d_x^m-a+b_arctan-c_x^n-p.txt

Test file number 148

Integral number in file 52

2.2.5096 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx^2))^2}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arctan(c*x^2))^2/(e*x+d)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.3-d+e_x-^m-a+b_arctan-c_x-^n-^p.txt

Test file number 149

Integral number in file 27

2.2.5097 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{(d + icdx)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arctan(c*x))/(d+I*c*d*x)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 54

2.2.5098 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2(d + icdx)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arctan(c*x))/x^2/(d+I*c*d*x)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 64

2.2.5099 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{(d + icdx)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arctan(c*x))^2/(d+I*c*d*x)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 107

2.2.5100 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x^3(d + icdx)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arctan(c*x))^2/x^3/(d+I*c*d*x)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 110

2.2.5101 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x^2(d + icdx)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arctan(c*x))^2/x^2/(d+I*c*d*x)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 117

2.2.5102 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^3}{(d + icdx)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arctan(c*x))^3/(d+I*c*d*x)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 124

2.2.5103 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 686

2.2.5104 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 687

2.2.5105 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 688

2.2.5106 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 689

2.2.5107 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 690

2.2.5108 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 691

2.2.5109 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 692

2.2.5110 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 693

2.2.5111 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 694

2.2.5112 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 695

2.2.5113 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 696

2.2.5114 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 697

2.2.5115 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 698

2.2.5116 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 699

2.2.5117 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 700

2.2.5118 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{\arctan(ax)}}{c+a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 701

2.2.5119 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{c+a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 702

2.2.5120 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 703

2.2.5121 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 704

2.2.5122 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x^3/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 705

2.2.5123 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^4(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x^4/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 706

2.2.5124 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 707

2.2.5125 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 708

2.2.5126 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 709

2.2.5127 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 710

2.2.5128 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 711

2.2.5129 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 712

2.2.5130 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 713

2.2.5131 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^5*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 714

2.2.5132 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 715

2.2.5133 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 716

2.2.5134 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 717

2.2.5135 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 718

2.2.5136 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 719

2.2.5137 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 720

2.2.5138 Maxima [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 x^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 721

2.2.5139 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 x^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 722

2.2.5140 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2}\sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 723

2.2.5141 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2}\sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 724

2.2.5142 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 725

2.2.5143 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 726

2.2.5144 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 727

2.2.5145 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 728

2.2.5146 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 729

2.2.5147 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 730

2.2.5148 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 731

2.2.5149 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 732

2.2.5150 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 733

2.2.5151 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 734

2.2.5152 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 735

2.2.5153 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 736

2.2.5154 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 737

2.2.5155 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 738

2.2.5156 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 739

2.2.5157 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 740

2.2.5158 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 741

2.2.5159 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 742

2.2.5160 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 743

2.2.5161 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 744

2.2.5162 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{\arctan(ax)}}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 745

2.2.5163 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 746

2.2.5164 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 747

2.2.5165 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 748

2.2.5166 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 749

2.2.5167 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 750

2.2.5168 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 751

2.2.5169 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 752

2.2.5170 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{\arctan(ax)}}{(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 753

2.2.5171 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 754

2.2.5172 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 755

2.2.5173 Maxima [F(-2)]

Exception generated.

$$\int x^m(c+a^2cx^2)\arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 756

2.2.5174 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 757

2.2.5175 Maxima [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 758

2.2.5176 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 759

2.2.5177 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 760

2.2.5178 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 761

2.2.5179 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 762

2.2.5180 Maxima [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 763

2.2.5181 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 764

2.2.5182 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 765

2.2.5183 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 766

2.2.5184 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 767

2.2.5185 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 768

2.2.5186 Maxima [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 769

2.2.5187 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 770

2.2.5188 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 771

2.2.5189 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 772

2.2.5190 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 773

2.2.5191 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 774

2.2.5192 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 775

2.2.5193 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 776

2.2.5194 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 777

2.2.5195 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 778

2.2.5196 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 779

2.2.5197 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 780

2.2.5198 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^3/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 781

2.2.5199 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^4(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^4/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 782

2.2.5200 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 783

2.2.5201 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 784

2.2.5202 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 785

2.2.5203 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 786

2.2.5204 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 787

2.2.5205 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 788

2.2.5206 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 789

2.2.5207 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 790

2.2.5208 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^4*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 791

2.2.5209 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 792

2.2.5210 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 793

2.2.5211 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 794

2.2.5212 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 795

2.2.5213 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 796

2.2.5214 Maxima [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^m*arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 797

2.2.5215 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 798

2.2.5216 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 799

2.2.5217 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 800

2.2.5218 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 801

2.2.5219 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 802

2.2.5220 Maxima [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 803

2.2.5221 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 804

2.2.5222 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 805

2.2.5223 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 806

2.2.5224 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 807

2.2.5225 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 808

2.2.5226 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 809

2.2.5227 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 810

2.2.5228 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 811

2.2.5229 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 812

2.2.5230 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 813

2.2.5231 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 814

2.2.5232 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 815

2.2.5233 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 816

2.2.5234 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 817

2.2.5235 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 818

2.2.5236 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 819

2.2.5237 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^4\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 820

2.2.5238 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 821

2.2.5239 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 822

2.2.5240 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 823

2.2.5241 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 824

2.2.5242 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 825

2.2.5243 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 826

2.2.5244 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2 (c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 827

2.2.5245 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 828

2.2.5246 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 829

2.2.5247 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 830

2.2.5248 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 831

2.2.5249 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 832

2.2.5250 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 833

2.2.5251 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 834

2.2.5252 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 835

2.2.5253 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 836

2.2.5254 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 837

2.2.5255 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 838

2.2.5256 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 839

2.2.5257 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 840

2.2.5258 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 841

2.2.5259 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 842

2.2.5260 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 843

2.2.5261 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 844

2.2.5262 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 845

2.2.5263 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 846

2.2.5264 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 847

2.2.5265 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 848

2.2.5266 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 849

2.2.5267 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 850

2.2.5268 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 851

2.2.5269 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 852

2.2.5270 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 853

2.2.5271 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 854

2.2.5272 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 855

2.2.5273 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 856

2.2.5274 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 857

2.2.5275 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 858

2.2.5276 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 859

2.2.5277 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 860

2.2.5278 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x^2/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 861

2.2.5279 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x^3/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 862

2.2.5280 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^4 (c + a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x^4/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 863

2.2.5281 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 864

2.2.5282 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 865

2.2.5283 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 866

2.2.5284 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 867

2.2.5285 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 868

2.2.5286 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 869

2.2.5287 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c+a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 870

2.2.5288 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^5*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 871

2.2.5289 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^4*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 872

2.2.5290 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 873

2.2.5291 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 874

2.2.5292 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 875

2.2.5293 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 876

2.2.5294 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 877

2.2.5295 Maxima [F(-2)]

Exception generated.

$$\int x^m \sqrt{c+a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^m*arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 878

2.2.5296 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 879

2.2.5297 Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 880

2.2.5298 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 881

2.2.5299 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 882

2.2.5300 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 883

2.2.5301 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 884

2.2.5302 Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 885

2.2.5303 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 886

2.2.5304 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 887

2.2.5305 Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 888

2.2.5306 Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 889

2.2.5307 Maxima [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 890

2.2.5308 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 891

2.2.5309 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2)/x,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 892

2.2.5310 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 893

2.2.5311 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 894

2.2.5312 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 895

2.2.5313 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 896

2.2.5314 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 897

2.2.5315 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 898

2.2.5316 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 899

2.2.5317 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 900

2.2.5318 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 901

2.2.5319 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 902

2.2.5320 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 903

2.2.5321 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 904

2.2.5322 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 905

2.2.5323 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 906

2.2.5324 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 907

2.2.5325 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 908

2.2.5326 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 909

2.2.5327 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 910

2.2.5328 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 911

2.2.5329 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 912

2.2.5330 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 913

2.2.5331 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c+a^2cx^2)}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 914

2.2.5332 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 915

2.2.5333 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 916

2.2.5334 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)/x/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 917

2.2.5335 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 918

2.2.5336 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 919

2.2.5337 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 920

2.2.5338 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 921

2.2.5339 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 922

2.2.5340 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 923

2.2.5341 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 924

2.2.5342 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 925

2.2.5343 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 926

2.2.5344 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 927

2.2.5345 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2) \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 928

2.2.5346 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 929

2.2.5347 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^2\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 930

2.2.5348 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 931

2.2.5349 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 932

2.2.5350 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 933

2.2.5351 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 934

2.2.5352 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 935

2.2.5353 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c+a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 936

2.2.5354 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^5/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 937

2.2.5355 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 938

2.2.5356 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 939

2.2.5357 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 940

2.2.5358 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 941

2.2.5359 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 942

2.2.5360 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^3\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 943

2.2.5361 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 944

2.2.5362 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 945

2.2.5363 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 946

2.2.5364 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 947

2.2.5365 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 948

2.2.5366 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 949

2.2.5367 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 950

2.2.5368 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 951

2.2.5369 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 952

2.2.5370 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 953

2.2.5371 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 954

2.2.5372 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 955

2.2.5373 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 956

2.2.5374 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 957

2.2.5375 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 958

2.2.5376 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c+a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 959

2.2.5377 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c+a^2cx^2)^{3/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 960

2.2.5378 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 961

2.2.5379 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 962

2.2.5380 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 963

2.2.5381 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 964

2.2.5382 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 965

2.2.5383 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 966

2.2.5384 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 967

2.2.5385 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 968

2.2.5386 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 969

2.2.5387 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 970

2.2.5388 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 971

2.2.5389 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c+a^2cx^2)}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 972

2.2.5390 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 973

2.2.5391 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 974

2.2.5392 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2 cx^2}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)/x/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 975

2.2.5393 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2 cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 976

2.2.5394 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 977

2.2.5395 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 978

2.2.5396 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 979

2.2.5397 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 980

2.2.5398 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 981

2.2.5399 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 982

2.2.5400 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 983

2.2.5401 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 984

2.2.5402 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 985

2.2.5403 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 986

2.2.5404 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 987

2.2.5405 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 988

2.2.5406 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 989

2.2.5407 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 990

2.2.5408 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 991

2.2.5409 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 992

2.2.5410 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 993

2.2.5411 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 994

2.2.5412 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 995

2.2.5413 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 996

2.2.5414 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 997

2.2.5415 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 998

2.2.5416 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 999

2.2.5417 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1000

2.2.5418 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1001

2.2.5419 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1002

2.2.5420 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1003

2.2.5421 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1004

2.2.5422 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1005

2.2.5423 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1006

2.2.5424 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1007

2.2.5425 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{c + a^2 cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1008

2.2.5426 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1009

2.2.5427 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1010

2.2.5428 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 c x^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1011

2.2.5429 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 c x^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1012

2.2.5430 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1013

2.2.5431 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1014

2.2.5432 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1015

2.2.5433 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1016

2.2.5434 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1017

2.2.5435 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1018

2.2.5436 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1019

2.2.5437 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1020

2.2.5438 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1021

2.2.5439 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1022

2.2.5440 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1023

2.2.5441 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1024

2.2.5442 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1025

2.2.5443 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1026

2.2.5444 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1027

2.2.5445 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1028

2.2.5446 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1029

2.2.5447 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1030

2.2.5448 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1031

2.2.5449 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^4/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1032

2.2.5450 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1033

2.2.5451 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1034

2.2.5452 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1035

2.2.5453 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1036

2.2.5454 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1037

2.2.5455 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1038

2.2.5456 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1039

2.2.5457 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1040

2.2.5458 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1041

2.2.5459 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1042

2.2.5460 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1043

2.2.5461 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1044

2.2.5462 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2 cx^2}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)/x/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1045

2.2.5463 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2 cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1046

2.2.5464 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1047

2.2.5465 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1048

2.2.5466 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1049

2.2.5467 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1050

2.2.5468 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1051

2.2.5469 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1052

2.2.5470 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^3}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1053

2.2.5471 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2 cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1054

2.2.5472 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1055

2.2.5473 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1056

2.2.5474 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1057

2.2.5475 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^m/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1058

2.2.5476 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1059

2.2.5477 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1060

2.2.5478 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1061

2.2.5479 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1062

2.2.5480 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1063

2.2.5481 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1064

2.2.5482 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1065

2.2.5483 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1066

2.2.5484 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1067

2.2.5485 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1068

2.2.5486 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1069

2.2.5487 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1070

2.2.5488 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1071

2.2.5489 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1072

2.2.5490 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1073

2.2.5491 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1074

2.2.5492 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1075

2.2.5493 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1076

2.2.5494 Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+a^2cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1077

2.2.5495 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+a^2cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1078

2.2.5496 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1079

2.2.5497 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1080

2.2.5498 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1081

2.2.5499 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1082

2.2.5500 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1083

2.2.5501 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1084

2.2.5502 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1085

2.2.5503 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1086

2.2.5504 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1087

2.2.5505 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1088

2.2.5506 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1089

2.2.5507 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1090

2.2.5508 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c+a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1091

2.2.5509 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{c+a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/x^2/arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")
)

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1092

2.2.5510 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^m/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1093

2.2.5511 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1094

2.2.5512 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1095

2.2.5513 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1096

2.2.5514 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1097

2.2.5515 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1098

2.2.5516 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1099

2.2.5517 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1100

2.2.5518 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1101

2.2.5519 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^m/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1102

2.2.5520 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1103

2.2.5521 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1104

2.2.5522 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1105

2.2.5523 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1106

2.2.5524 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1107

2.2.5525 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1108

2.2.5526 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1109

2.2.5527 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1110

2.2.5528 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^n}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*arctan(a*x)^n/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1111

2.2.5529 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^n}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(a*x)^n/(a^2*c*x^2+c),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1112

2.2.5530 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1155

2.2.5531 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1156

2.2.5532 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arctan(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1157

2.2.5533 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1159

2.2.5534 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1162

2.2.5535 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1163

2.2.5536 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1164

2.2.5537 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arctan(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arctan(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1166

2.2.5538 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1167

2.2.5539 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1170

2.2.5540 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1171

2.2.5541 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1172

2.2.5542 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt
```

```
Test file number 150
```

```
Integral number in file 1173
```

2.2.5543 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt
```

```
Test file number 150
```

```
Integral number in file 1174
```

2.2.5544 Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{d+ex^2}(a+b\arctan(cx))dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1175

2.2.5545 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex^2}(a+b\arctan(cx))dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1176

2.2.5546 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1177

2.2.5547 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1178

2.2.5548 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1179

2.2.5549 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1180

2.2.5550 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1181

2.2.5551 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1182

2.2.5552 Maxima [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^{3/2}(a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1183

2.2.5553 Maxima [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^{3/2}(a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1184

2.2.5554 Maxima [F(-2)]

Exception generated.

$$\int x(d + ex^2)^{3/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1185

2.2.5555 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1186

2.2.5556 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1187

2.2.5557 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1188

2.2.5558 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1189

2.2.5559 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1190

2.2.5560 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^5} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^5,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1191

2.2.5561 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^6,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1192

2.2.5562 Maxima [F(-2)]

Exception generated.

$$\int x^3 (d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1193

2.2.5563 Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1194

2.2.5564 Maxima [F(-2)]

Exception generated.

$$\int x(d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more
detail
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1195

2.2.5565 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1196

2.2.5566 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (a + b \arctan(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1197

2.2.5567 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (a + b \arctan(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x))/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1198

2.2.5568 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (a + b \arctan(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x))/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1199

2.2.5569 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (a + b \arctan(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x))/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1200

2.2.5570 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arctan(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arctan(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1201

2.2.5571 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1202

2.2.5572 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1203

2.2.5573 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arctan(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1204

2.2.5574 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arctan(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1205

2.2.5575 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1206

2.2.5576 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^3 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1207

2.2.5577 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1208

2.2.5578 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arctan(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arctan(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1209

2.2.5579 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1210

2.2.5580 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1211

2.2.5581 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1212

2.2.5582 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1213

2.2.5583 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1214

2.2.5584 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^3 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1215

2.2.5585 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^4 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^4/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1216

2.2.5586 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arctan(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arctan(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1217

2.2.5587 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arctan(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arctan(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1218

2.2.5588 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1220

2.2.5589 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1222

2.2.5590 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1223

2.2.5591 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^3 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1224

2.2.5592 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^4 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))/x^4/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1225

2.2.5593 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{(c + dx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(arctan(a*x)/(d*x^2+c)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1226

2.2.5594 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{(c + dx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arctan(a*x)/(d*x^2+c)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1227

2.2.5595 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arctan(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1262

2.2.5596 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arctan(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1264

2.2.5597 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arctan(c*x))^2/x^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1266

2.2.5598 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arctan(c*x))^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1269

2.2.5599 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a+b*arctan(c*x))^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1270

2.2.5600 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1271

2.2.5601 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arctan(c*x))^2/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 1273

2.2.5602 Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{\arctan(a + bx)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x+a)^2*arctan(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.5_u-a+b_arctan-c+d_x^p.txt

Test file number 151

Integral number in file 23

2.2.5603 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(d + ex)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arctan(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.5_u-a+b_arctan-c+d_x^p.txt

Test file number 151

Integral number in file 62

2.2.5604 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(1+I*(b*x+a))*(1+(b*x+a)^2)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 194

2.2.5605 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-3i \arctan(a+bx)}}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(1+I*(b*x+a))^3*(1+(b*x+a)^2)^(3/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 215

2.2.5606 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{i \arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 314

2.2.5607 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{(1 + a^2 x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(1+I*a*x)/(a^2*x^2+1),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 324

2.2.5608 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((1+I*a*x)^3/(a^2*x^2+1)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 330

2.2.5609 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 332

2.2.5610 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-2i \arctan(ax)} x^2}{(c + a^2 c x^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(1+I*a*x)^2*(a^2*x^2+1)/(a^2*c*x^2+c)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 378

2.2.5611 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-4i \arctan(ax)} x^2}{(c + a^2 c x^2)^9} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2/(1+I*a*x)^4*(a^2*x^2+1)^2/(a^2*c*x^2+c)^9,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 379

2.2.5612 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{5i \arctan(ax)} x^2}{(c + a^2 c x^2)^{27/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((1+I*a*x)^5/(a^2*x^2+1)^(5/2)*x^2/(a^2*c*x^2+c)^(27/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 380

2.2.5613 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3i \arctan(ax)} x^2}{(c + a^2 c x^2)^{11/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((1+I*a*x)^3/(a^2*x^2+1)^(3/2)*x^2/(a^2*c*x^2+c)^(11/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 381

2.2.5614 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{i \arctan(ax)} x^2}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)*x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 382

2.2.5615 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c + (1 + ic) \tan(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate(arctan(c+(1+I*c)*tan(b*x+a))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 55

2.2.5616 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c + (-1 + ic) \tan(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate(arctan(c+(-1+I*c)*tan(b*x+a))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 59

2.2.5617 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c + (1 - ic) \cot(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate(-arctan(-c-(1-I*c)*cot(b*x+a))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 68

2.2.5618 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c + (-1 - ic) \cot(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate(-arctan(-c-(-1-I*c)*cot(b*x+a))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 72

2.2.5619 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan\left(\frac{cx}{\sqrt{a-c^2x^2}}\right)^m}{\sqrt{d - \frac{c^2dx^2}{a}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(c*x/(-c^2*x^2+a)^(1/2))^m/(d-c^2*d*x^2/a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 134

2.2.5620 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)^m}{\sqrt{a+bx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))^m/(b*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 140

2.2.5621 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)^2}{\sqrt{a+bx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))^2/(b*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 141

2.2.5622 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)}{\sqrt{a+bx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))/(b*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 142

2.2.5623 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx^2} \arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))/(b*x^2+a)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 143

2.2.5624 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx^2} \arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))^2/(b*x^2+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 144

2.2.5625 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx^2} \arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))^3/(b*x^2+a)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 145

2.2.5626 Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c(a + bx)) \log(d(a + bx))}{a + bx} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arctan(c*(b*x+a))*log(d*(b*x+a))/(b*x+a),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 146

2.2.5627 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + dx^2} \cot^{-1}(ax) dx = \text{Exception raised: ValueError}$$

[In] integrate((d*x^2+c)^(1/2)*arccot(a*x),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 59

2.2.5628 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(ax)}{(c+dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccot(a*x)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 61

2.2.5629 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(ax)}{(c+dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccot(a*x)/(d*x^2+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 62

2.2.5630 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(ax)}{(c+dx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccot(a*x)/(d*x^2+c)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 63

2.2.5631 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(ax)}{(c+dx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccot(a*x)/(d*x^2+c)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 64

2.2.5632 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccot(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 113

2.2.5633 Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^2 \sqrt{\cot^{-1}(a+bx)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((b*x+a)^2*arccot(b*x+a)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 128

2.2.5634 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(c + (1 + ic) \tan(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccot(c+(1+I*c)*tan(b*x+a))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 165

2.2.5635 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(c - (1 - ic) \tan(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccot(c-(1-I*c)*tan(b*x+a))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 169

2.2.5636 Maxima [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(pi-arccot(-c-(1-I*c)*cot(b*x+a))),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more det
ails)Is
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotan-
gent_functions.txt

Test file number 154

Integral number in file 175

2.2.5637 Maxima [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(pi-arccot(-c-(1-I*c)*cot(b*x+a))),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more det
ails)Is
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotan-
gent_functions.txt

Test file number 154

Integral number in file 176

2.2.5638 Maxima [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

[In] integrate(pi-arccot(-c-(1-I*c)*cot(b*x+a)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 177

2.2.5639 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(c + (1 - ic) \cot(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((pi-arccot(-c-(1-I*c)*cot(b*x+a)))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 178

2.2.5640 Maxima [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(pi-arccot(-c+(1+I*c)*cot(b*x+a))),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 179

2.2.5641 Maxima [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(pi-arccot(-c+(1+I*c)*cot(b*x+a))),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 180

2.2.5642 Maxima [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(pi-arccot(-c+(1+I*c)*cot(b*x+a)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 181

2.2.5643 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(c - (1 + ic) \cot(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((pi-arccot(-c+(1+I*c)*cot(b*x+a)))/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see 'assume?' for more details)Is

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 182

2.2.5644 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^{3/2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(3/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 63

2.2.5645 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(1/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 64

2.2.5646 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsec(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 65

2.2.5647 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsec(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 66

2.2.5648 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsec(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 67

2.2.5649 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsec(c*x))/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 68

2.2.5650 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 91

2.2.5651 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 93

2.2.5652 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 95

2.2.5653 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 100

2.2.5654 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt
```

```
Test file number 156
```

```
Integral number in file 101
```

2.2.5655 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt
```

```
Test file number 156
```

```
Integral number in file 102
```

2.2.5656 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 103

2.2.5657 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 108

2.2.5658 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt
```

```
Test file number 156
```

```
Integral number in file 109
```

2.2.5659 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt
```

```
Test file number 156
```

```
Integral number in file 110
```


2.2.5660 Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^5*(a+b*arcsec(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 111

2.2.5661 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(a+b*arcsec(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 112

2.2.5662 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))*(e*x^2+d)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 114

2.2.5663 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))*(e*x^2+d)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 115

2.2.5664 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsec(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 116

2.2.5665 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 117

2.2.5666 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))*(e*x^2+d)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 118

2.2.5667 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))*(e*x^2+d)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 119

2.2.5668 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))*(e*x^2+d)^(1/2)/x^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 120

2.2.5669 Maxima [F(-2)]

Exception generated.

$$\int x^3(d+ex^2)^{3/2}(a+b\sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 121

2.2.5670 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 123

2.2.5671 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 124

2.2.5672 Maxima [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^{3/2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 125

2.2.5673 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 126

2.2.5674 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 127

2.2.5675 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 128

2.2.5676 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 129

2.2.5677 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^8} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^8,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 130

2.2.5678 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \sec^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(a+b*arcsec(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 131

2.2.5679 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \sec^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(a+b*arcsec(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 132

2.2.5680 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 134

2.2.5681 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^3\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 135

2.2.5682 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 136

2.2.5683 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 137

2.2.5684 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 138

2.2.5685 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 139

2.2.5686 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^6 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsec(c*x))/x^6/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 140

2.2.5687 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \sec^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 141

2.2.5688 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \sec^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 142

2.2.5689 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 144

2.2.5690 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^3 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 145

2.2.5691 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 146

2.2.5692 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 147

2.2.5693 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 148

2.2.5694 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 149

2.2.5695 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^4 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))/x^4/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 150

2.2.5696 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 151

2.2.5697 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 152

2.2.5698 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 153

2.2.5699 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 154

2.2.5700 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^3 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsec(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 155

2.2.5701 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6 (a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^6*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 156

2.2.5702 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 157

2.2.5703 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 160

2.2.5704 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d+ex} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arccsc(c*x))*(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 51

2.2.5705 Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{d+ex} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(a+b*arccsc(c*x))*(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 52

2.2.5706 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex}(a+b\csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsc(c*x))*(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 53

2.2.5707 Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^{3/2}(a+b\csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(3/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 56

2.2.5708 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(a+b*arccsc(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 57

2.2.5709 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arccsc(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 58

2.2.5710 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(a+b*arccsc(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 59

2.2.5711 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsc(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 60

2.2.5712 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arccsc(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 63

2.2.5713 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arccsc(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 64

2.2.5714 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(a+b*arccsc(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 65

2.2.5715 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsc(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 66

2.2.5716 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(a+b*arccsc(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 69

2.2.5717 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arccsc(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 70

2.2.5718 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(a+b*arccsc(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 71

2.2.5719 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsc(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 72

2.2.5720 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsc(c*x))/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 75

2.2.5721 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 98

2.2.5722 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 100

2.2.5723 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 102

2.2.5724 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \csc^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 107

2.2.5725 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 108

2.2.5726 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 109

2.2.5727 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 110

2.2.5728 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 115

2.2.5729 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 116

2.2.5730 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 117

2.2.5731 Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*arccsc(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 118

2.2.5732 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(a+b*arccsc(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 119

2.2.5733 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2} (a + b \csc^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsc(c*x))*(e*x^2+d)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 121

2.2.5734 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsc(c*x))*(e*x^2+d)^(1/2)/x^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-ⁿ.txt

Test file number 158

Integral number in file 122

2.2.5735 Maxima [F(-2)]

Exception generated.

$$\int x^2\sqrt{d+ex^2}(a+b\csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arccsc(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-ⁿ.txt

Test file number 158

Integral number in file 123

2.2.5736 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex^2}(a+b\csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 124

2.2.5737 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))*(e*x^2+d)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 125

2.2.5738 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsc(c*x))*(e*x^2+d)^(1/2)/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-ⁿ.txt

Test file number 158

Integral number in file 126

2.2.5739 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsc(c*x))*(e*x^2+d)^(1/2)/x^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-ⁿ.txt

Test file number 158

Integral number in file 127

2.2.5740 Maxima [F(-2)]

Exception generated.

$$\int x^3 (d + ex^2)^{3/2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 128

2.2.5741 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \csc^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 130

2.2.5742 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{csc}^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 131

2.2.5743 Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + ex^2)^{3/2} (a + b \operatorname{csc}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 132

2.2.5744 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 133

2.2.5745 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \csc^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 134

2.2.5746 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{csc}^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 135

2.2.5747 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{csc}^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-ⁿ.txt

Test file number 158

Integral number in file 136

2.2.5748 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{csc}^{-1}(cx))}{x^8} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^8,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt
```

```
Test file number 158
```

```
Integral number in file 137
```

2.2.5749 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \operatorname{csc}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^5*(a+b*arccsc(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt
```

```
Test file number 158
```

```
Integral number in file 138
```

2.2.5750 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arccsc(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 139

2.2.5751 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 141

2.2.5752 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^3 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 142

2.2.5753 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 143

2.2.5754 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsc(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-ⁿ.txt

Test file number 158

Integral number in file 144

2.2.5755 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-ⁿ.txt

Test file number 158

Integral number in file 145

2.2.5756 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 146

2.2.5757 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \csc^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 147

2.2.5758 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 148

2.2.5759 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 150

2.2.5760 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^3 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsc(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt
```

```
Test file number 158
```

```
Integral number in file 151
```

2.2.5761 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + b \csc^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt
```

```
Test file number 158
```

```
Integral number in file 152
```

2.2.5762 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-ⁿ.txt

Test file number 158

Integral number in file 153

2.2.5763 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-ⁿ.txt

Test file number 158

Integral number in file 154

2.2.5764 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 155

2.2.5765 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 156

2.2.5766 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 157

2.2.5767 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 158

2.2.5768 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 159

2.2.5769 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^3(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsc(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 160

2.2.5770 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^6*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 161

2.2.5771 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-c_x-^n.txt

Test file number 158

Integral number in file 162

2.2.5772 Maxima [F(-2)]

Exception generated.

$$\int x^{-2+m} \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^(-2+m)*sinh(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^-m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 90

2.2.5773 Maxima [F(-2)]

Exception generated.

$$\int x^{-3+m} \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^(-3+m)*sinh(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-3>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^-m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 91

2.2.5774 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sinh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^3*sinh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 199

2.2.5775 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sinh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^2*sinh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 200

2.2.5776 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sinh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)*sinh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinhⁿ.txt

Test file number 160

Integral number in file 201

2.2.5777 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(e + fx)(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(sinh(d*x+c)^3/(f*x+e)/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinhⁿ.txt

Test file number 160

Integral number in file 203

2.2.5778 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(e + fx)^2(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(sinh(d*x+c)^3/(f*x+e)^2/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 204

2.2.5779 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cosh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^3*cosh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 265

2.2.5780 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cosh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^2*cosh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 266

2.2.5781 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cosh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)*cosh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 267

2.2.5782 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{(e + fx)(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cosh(d*x+c)^3/(f*x+e)/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 269

2.2.5783 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{(e + fx)^2(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cosh(d*x+c)^3/(f*x+e)^2/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
)

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 270

2.2.5784 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \operatorname{sech}^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^3*sech(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 283

2.2.5785 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \operatorname{sech}^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((f*x+e)^2*sech(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 284

2.2.5786 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)\operatorname{sech}^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f*x+e)*sech(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 285

2.2.5787 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sech(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 286

2.2.5788 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c+dx)}{(e+fx)(a+ia\sinh(c+dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sech(d*x+c)^3/(f*x+e)/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 287

2.2.5789 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c+dx)}{(e+fx)^2(a+ia\sinh(c+dx))} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sech(d*x+c)^3/(f*x+e)^2/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")
)

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 288

2.2.5790 Maxima [F(-2)]

Exception generated.

$$\int e^x \sinh(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(x)*sinh(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.5_Hyperbolic_sine_functions.txt

Test file number 163

Integral number in file 336

2.2.5791 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(a + bx)}{c + dx + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(b*x+a)/(e*x^2+d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c*e-d^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.5_Hyperbolic_sine_functions.txt

Test file number 163

Integral number in file 369

2.2.5792 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^6(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(d*x+c)^6/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 29

2.2.5793 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(d*x+c)^4/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 31

2.2.5794 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(d*x+c)^2/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 33

2.2.5795 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 35

2.2.5796 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(d*x+c)^2/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 37

2.2.5797 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(d*x+c)^4/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 39

2.2.5798 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^6(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(d*x+c)^6/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 41

2.2.5799 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(c+dx)}{(a+b\sinh^2(c+dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(d*x+c)^4/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 42

2.2.5800 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sinh(d*x+c)^2/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 44

2.2.5801 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 46

2.2.5802 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(c+dx)}{(a+b\sinh^2(c+dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(csch(d*x+c)^2/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 48

2.2.5803 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(c+dx)}{(a+b\sinh^2(c+dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(csch(d*x+c)^4/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 50

2.2.5804 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sinh(d*x+c)^4/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 51

2.2.5805 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sinh(d*x+c)^2/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 53

2.2.5806 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 55

2.2.5807 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(csch(d*x+c)^2/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 57

2.2.5808 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(c+dx)}{(a+b\sinh^2(c+dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(csch(d*x+c)^4/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 59

2.2.5809 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^6(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)^6/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 317

2.2.5810 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)^4/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 319

2.2.5811 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)^2/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 321

2.2.5812 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(d*x+c)^2/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 324

2.2.5813 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(d*x+c)^4/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 326

2.2.5814 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^6(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(d*x+c)^6/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 328

2.2.5815 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^6(c+dx)}{(a+b\sinh^2(c+dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)^6/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 329

2.2.5816 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)^4/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 331

2.2.5817 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)^2/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 333

2.2.5818 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sech(d*x+c)^2/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 336

2.2.5819 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(sech(d*x+c)^4/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 338

2.2.5820 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^6(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)^6/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 339

2.2.5821 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)^4/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 341

2.2.5822 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)^2/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 343

2.2.5823 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(d*x+c)^2/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n^p.txt

Test file number 164

Integral number in file 346

2.2.5824 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sech(d*x+c)^4/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 348

2.2.5825 Maxima [F(-2)]

Exception generated.

$$\int x^{-2+m} \cosh^2(a + bx) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^(-2+m)*cosh(b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_coshⁿ.txt

Test file number 165

Integral number in file 93

2.2.5826 Maxima [F(-2)]

Exception generated.

$$\int x^{-3+m} \cosh^2(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^(-3+m)*cosh(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-3>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 94

2.2.5827 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + b \cosh(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^3/(a+b*cosh(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^m-a+b_cosh-
^n.txt

Test file number 165

Integral number in file 168

2.2.5828 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + b \cosh(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^2/(a+b*cosh(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-^n.txt

Test file number 165

Integral number in file 169

2.2.5829 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + b \cosh(e + fx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)/(a+b*cosh(f*x+e)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-^n.txt

Test file number 165

Integral number in file 170

2.2.5830 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + b \cosh(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^3/(a+b*cosh(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-[^]m-a+b_cosh-[^]n.txt

Test file number 165

Integral number in file 173

2.2.5831 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + b \cosh(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)^2/(a+b*cosh(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-[^]m-a+b_cosh-[^]n.txt

Test file number 165

Integral number in file 174

2.2.5832 Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + b \cosh(e + fx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*x+c)/(a+b*cosh(f*x+e))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-ⁿ.txt

Test file number 165

Integral number in file 175

2.2.5833 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cossine_functions.txt

Test file number 169

Integral number in file 54

2.2.5834 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^3/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 55

2.2.5835 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 56

2.2.5836 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 57

2.2.5837 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 58

2.2.5838 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 59

2.2.5839 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^3/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 60

2.2.5840 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 61

2.2.5841 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cosh(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 67

2.2.5842 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cosh(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 68

2.2.5843 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cosh(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 69

2.2.5844 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cosh(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 70

2.2.5845 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 110

2.2.5846 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(a+b*cosh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 111

2.2.5847 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(a+b*cosh(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 112

2.2.5848 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(a+b*cosh(x))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 113

2.2.5849 Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{bB}{a} + B \cosh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*B/a+B*cosh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 114

2.2.5850 Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{aB}{b} + B \cosh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a*B/b+B*cosh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name `6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt`

Test file number 169

Integral number in file 115

2.2.5851 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cosh(x)}{(b + a \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*cosh(x))/(b+a*cosh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name `6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt`

Test file number 169

Integral number in file 116

2.2.5852 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^6(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^6/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 166

2.2.5853 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 168

2.2.5854 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 170

2.2.5855 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 173

2.2.5856 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 175

2.2.5857 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^6(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^6/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 177

2.2.5858 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{(a + b \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^2/(a+b*cosh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 178

2.2.5859 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tanh(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 179

2.2.5860 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tanh(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 181

2.2.5861 Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(coth(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 184

2.2.5862 Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(coth(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cose_functions.txt

Test file number 169

Integral number in file 186

2.2.5863 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sinh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*sinh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cose_functions.txt

Test file number 169

Integral number in file 199

2.2.5864 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tanh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*tanh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cose_functions.txt

Test file number 169

Integral number in file 202

2.2.5865 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \coth(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*coth(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cose_functions.txt

Test file number 169

Integral number in file 203

2.2.5866 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \operatorname{sech}(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*sech(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 204

2.2.5867 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \operatorname{csch}(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*csch(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 205

2.2.5868 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(d + ex) + C \sinh(d + ex)}{a + b \cosh(d + ex)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cosh(e*x+d)+C*sinh(e*x+d))/(a+b*cosh(e*x+d)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 206

2.2.5869 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(d + ex) + C \sinh(d + ex)}{(a + b \cosh(d + ex))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cosh(e*x+d)+C*sinh(e*x+d))/(a+b*cosh(e*x+d))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 207

2.2.5870 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(d + ex) + C \sinh(d + ex)}{(a + b \cosh(d + ex))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cosh(e*x+d)+C*sinh(e*x+d))/(a+b*cosh(e*x+d))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 208

2.2.5871 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(d + ex) + C \sinh(d + ex)}{(a + b \cosh(d + ex))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((A+B*cosh(e*x+d)+C*sinh(e*x+d))/(a+b*cosh(e*x+d))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 209

2.2.5872 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sinh(x)}{(a + b \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*sinh(x)/(a+b*cosh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cossine_functions.txt

Test file number 169

Integral number in file 218

2.2.5873 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sinh(x)}{(a + b \cosh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*sinh(x)/(a+b*cosh(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cossine_functions.txt

Test file number 169

Integral number in file 219

2.2.5874 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sinh^2(c + dx)}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*sinh(d*x+c)^2/(a+b*cosh(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 228

2.2.5875 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sinh^2(c + dx)}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*sinh(d*x+c)^2/(a+b*cosh(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 229

2.2.5876 Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sinh^2(c + dx)}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(x*sinh(d*x+c)^2/(a+b*cosh(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 230

2.2.5877 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(sinh(d*x+c)^2/(a+b*cosh(d*x+c)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 231

2.2.5878 Maxima [F(-2)]

Exception generated.

$$\int e^x \cosh(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(x)*cosh(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 299

2.2.5879 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(a + bx)}{c + dx + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(b*x+a)/(e*x^2+d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c*e-d^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 336

2.2.5880 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tanh(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*tanh(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 67

2.2.5881 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tanh(c + dx)}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*tanh(d*x+c))^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 68

2.2.5882 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^3/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 81

2.2.5883 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 83

2.2.5884 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 84

2.2.5885 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^3/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 86

2.2.5886 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^5(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^5/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 88

2.2.5887 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^7(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^7/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 109

2.2.5888 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^5/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 110

2.2.5889 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^3/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 111

2.2.5890 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 112

2.2.5891 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 113

2.2.5892 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^3/(a+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 114

2.2.5893 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^x}{a - \tanh(2x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(x)/(a-tanh(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 226

2.2.5894 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^x}{(a - \tanh(2x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(x)/(a-tanh(2*x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tangent_functions.txt

Test file number 172

Integral number in file 227

2.2.5895 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sinh(d*x+c)^3/(a+b*tanh(d*x+c)^2)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.7-d_hyper-^m-a+b-c_tanh-^n-^p.txt

Test file number 173

Integral number in file 42

2.2.5896 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(x)}{a + b \coth(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^3/(a+b*coth(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 98

2.2.5897 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{a + b \coth(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)/(a+b*coth(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 100

2.2.5898 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)/(a+b*coth(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 101

2.2.5899 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^3/(a+b*coth(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 103

2.2.5900 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b \coth(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^3/(a+b*coth(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 115

2.2.5901 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b \coth(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)/(a+b*coth(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 117

2.2.5902 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)/(a+b*coth(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 118

2.2.5903 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^3/(a+b*coth(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 120

2.2.5904 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a + b \operatorname{sech}(c + dx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(a+b*sech(d*x^2+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x^m-a+b_sech-c+d_x^n-p.txt

Test file number 178

Integral number in file 16

2.2.5905 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \operatorname{sech}(c + dx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(a+b*sech(d*x^2+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x^m-a+b_sech-c+d_x^n-p.txt

Test file number 178

Integral number in file 18

2.2.5906 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \operatorname{sech}(c + dx^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(a+b*sech(d*x^2+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x^m-a+b_sech-c+d_x^n-p.txt

Test file number 178

Integral number in file 20

2.2.5907 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + b \operatorname{sech}(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5/(a+b*sech(d*x^2+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x^m-a+b_sech-c+d_x^n-p.txt

Test file number 178

Integral number in file 23

2.2.5908 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \operatorname{sech}(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(a+b*sech(d*x^2+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-^n-^p.txt

Test file number 178

Integral number in file 25

2.2.5909 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{sech}(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(a+b*sech(d*x^2+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-^n-^p.txt

Test file number 178

Integral number in file 27

2.2.5910 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-^n-^p.txt

Test file number 178

Integral number in file 42

2.2.5911 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-^n-^p.txt

Test file number 178

Integral number in file 43

2.2.5912 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x^m-a+b_sech-c+d_xⁿ-^p.txt

Test file number 178

Integral number in file 44

2.2.5913 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x^m-a+b_sech-c+d_xⁿ-^p.txt

Test file number 178

Integral number in file 47

2.2.5914 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-ⁿ-^p.txt

Test file number 178

Integral number in file 48

2.2.5915 Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-ⁿ-^p.txt

Test file number 178

Integral number in file 49

2.2.5916 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^(3/2)/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x^m-a+b_sech-c+d_x^n-p.txt

Test file number 178

Integral number in file 62

2.2.5917 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^(1/2)/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x^m-a+b_sech-c+d_x^n-p.txt

Test file number 178

Integral number in file 63

2.2.5918 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \operatorname{sech}(c + d\sqrt{x}))} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sech(c+d*x^(1/2)))/x^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-^n-^p.txt

Test file number 178

Integral number in file 64

2.2.5919 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^(3/2)/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-^n-^p.txt

Test file number 178

Integral number in file 67

2.2.5920 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^(1/2)/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a-b>0)', see 'assume?' for more det
ails)Is
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-ⁿ-^p.txt

Test file number 178

Integral number in file 68

2.2.5921 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*sech(c+d*x^(1/2)))^2/x^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.2-e_x-^m-a+b_sech-c+d_x-ⁿ-^p.txt

Test file number 178

Integral number in file 69

2.2.5922 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 60

2.2.5923 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 62

2.2.5924 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 65

2.2.5925 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 67

2.2.5926 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \operatorname{sech}(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sech(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 91

2.2.5927 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{sech}(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sech(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 92

2.2.5928 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{sech}(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*sech(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 93

2.2.5929 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(x)}{a + b \operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 95

2.2.5930 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^3/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 96

2.2.5931 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 97

2.2.5932 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 98

2.2.5933 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 99

2.2.5934 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 100

2.2.5935 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^3/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 101

2.2.5936 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 102

2.2.5937 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^6(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tanh(x)^6/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 114

2.2.5938 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tanh(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 116

2.2.5939 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tanh(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 118

2.2.5940 Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(coth(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 121

2.2.5941 Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(coth(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_secant_functions.txt

Test file number 179

Integral number in file 123

2.2.5942 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sinh(d*x+c)^3/(a+b*sech(d*x+c)^2)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 42

2.2.5943 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{i + \operatorname{csch}(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sech(x)^3/(I+csch(x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.3_Hyperbolic_cosecant_functions.txt

Test file number 183

Integral number in file 90

2.2.5944 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(x)}{i + \operatorname{csch}(x)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sech(x)^4/(I+csch(x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.3_Hyperbolic_cosecant_functions.txt

Test file number 183

Integral number in file 91

2.2.5945 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b\operatorname{csch}^2(c + dx)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*csch(d*x+c)^2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.7-d_hyper-^m-a+b-c_csch-^n-^p.txt

Test file number 184

Integral number in file 5

2.2.5946 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{csch}^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*csch(d*x+c)^2)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name `6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.7-d_hyper-m-a+b-c_csch-n-p.txt`

Test file number 184

Integral number in file 6

2.2.5947 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{csch}^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*csch(d*x+c)^2)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name `6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.7-d_hyper-m-a+b-c_csch-n-p.txt`

Test file number 184

Integral number in file 7

2.2.5948 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{csch}^2(c + dx))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*csch(d*x+c)^2)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.7-d_hyper-^m-a+b-c_csch-ⁿ-^p.txt

Test file number 184

Integral number in file 8

2.2.5949 Maxima [F(-2)]

Exception generated.

$$\int \sinh(a + bx) \sinh(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(b*x+a)*sinh(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)I

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 167

2.2.5950 Maxima [F(-2)]

Exception generated.

$$\int \sinh(a + bx) \sinh^2(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(b*x+a)*sinh(d*x+c)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 168

2.2.5951 Maxima [F(-2)]

Exception generated.

$$\int \sinh(a + bx) \sinh^3(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(b*x+a)*sinh(d*x+c)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 169

2.2.5952 Maxima [F(-2)]

Exception generated.

$$\int \sinh^2(a + bx) \sinh^2(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(b*x+a)^2*sinh(d*x+c)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(2*d)/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 170

2.2.5953 Maxima [F(-2)]

Exception generated.

$$\int \sinh^2(a + bx) \sinh^3(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(b*x+a)^2*sinh(d*x+c)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(3*d)/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 171

2.2.5954 Maxima [F(-2)]

Exception generated.

$$\int \sinh^3(a + bx) \sinh^3(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(b*x+a)^3*sinh(d*x+c)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see 'assume?' for more detail)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 172

2.2.5955 Maxima [F(-2)]

Exception generated.

$$\int \cosh(a + bx) \cosh(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(b*x+a)*cosh(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)I

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 173

2.2.5956 Maxima [F(-2)]

Exception generated.

$$\int \cosh(a + bx) \cosh^2(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(b*x+a)*cosh(d*x+c)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 174

2.2.5957 Maxima [F(-2)]

Exception generated.

$$\int \cosh(a + bx) \cosh^3(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(b*x+a)*cosh(d*x+c)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 175

2.2.5958 Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(a + bx) \cosh^2(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(b*x+a)^2*cosh(d*x+c)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(2*d)/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 176

2.2.5959 Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(a + bx) \cosh^3(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(b*x+a)^2*cosh(d*x+c)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(3*d)/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 177

2.2.5960 Maxima [F(-2)]

Exception generated.

$$\int \cosh^3(a + bx) \cosh^3(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(b*x+a)^3*cosh(d*x+c)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see 'assume?' for more detail)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 178

2.2.5961 Maxima [F(-2)]

Exception generated.

$$\int \cosh(c + dx) \sinh(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)*sinh(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)I

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 179

2.2.5962 Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(c + dx) \sinh(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)^2*sinh(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 180

2.2.5963 Maxima [F(-2)]

Exception generated.

$$\int \cosh^3(c + dx) \sinh(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)^3*sinh(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 181

2.2.5964 Maxima [F(-2)]

Exception generated.

$$\int \cosh(c + dx) \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)*sinh(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-d/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 182

2.2.5965 Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(c + dx) \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)^2*sinh(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(2*d)/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 183

2.2.5966 Maxima [F(-2)]

Exception generated.

$$\int \cosh^3(c + dx) \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)^3*sinh(b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(1-(3*d)/b>0)', see 'assume?' for mo
re deta
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 184

2.2.5967 Maxima [F(-2)]

Exception generated.

$$\int \cosh(c + dx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(d*x+c)*sinh(b*x+a)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more de
tails)I
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 185

2.2.5968 Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(c + dx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)^2*sinh(b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 186

2.2.5969 Maxima [F(-2)]

Exception generated.

$$\int \cosh^3(c + dx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(d*x+c)^3*sinh(b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 187

2.2.5970 Maxima [F(-2)]

Exception generated.

$$\int \sinh(x) \sinh(mx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)*sinh(m*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 195

2.2.5971 Maxima [F(-2)]

Exception generated.

$$\int \cosh(mx) \sinh(x) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(m*x)*sinh(x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 199

2.2.5972 Maxima [F(-2)]

Exception generated.

$$\int \cosh(x) \sinh(mx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)*sinh(m*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 224

2.2.5973 Maxima [F(-2)]

Exception generated.

$$\int \cosh(x) \cosh(mx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)*cosh(m*x),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more details)Is

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 228

2.2.5974 Maxima [F(-2)]

Exception generated.

$$\int x \cosh^2(x) \coth^2(x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*cosh(x)^2*coth(x)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 418

2.2.5975 Maxima [F(-2)]

Exception generated.

$$\int x^2 \cosh^2(x) \coth^2(x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*cosh(x)^2*coth(x)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 419

2.2.5976 Maxima [F(-2)]

Exception generated.

$$\int x^3 \cosh^2(x) \coth^2(x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*cosh(x)^2*coth(x)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 420

2.2.5977 Maxima [F(-2)]

Exception generated.

$$\int \frac{b+c+\sinh(x)}{a+b\cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b+c+sinh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 568

2.2.5978 Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \sinh(x)}{a - b \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b+c*sinh(x))/(a-b*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 569

2.2.5979 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(b + a \cosh(x))}{(a + b \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(b+a*cosh(x))/(a+b*cosh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 571

2.2.5980 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}(x)}{c + d \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*sech(x))/(c+d*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 572

2.2.5981 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^2(x)}{c + d \cosh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*sech(x)^2)/(c+d*cosh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 578

2.2.5982 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 585

2.2.5983 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cosh(x) + b \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*cosh(x)+b*sinh(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 587

2.2.5984 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cosh(x) + b \sinh(x))^5} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*cosh(x)+b*sinh(x))^5,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 589

2.2.5985 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \coth(x) + b \operatorname{csch}(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*coth(x)+b*csch(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 650

2.2.5986 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \coth(x) + b \operatorname{csch}(x))^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a*coth(x)+b*csch(x))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 652

2.2.5987 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^2/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 689

2.2.5988 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^2/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 692

2.2.5989 Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{b \cosh(x) + a \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(tanh(x)/(b*cosh(x)+a*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 694

2.2.5990 Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth(x)}{b \cosh(x) + a \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(coth(x)/(b*cosh(x)+a*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 695

2.2.5991 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 696

2.2.5992 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(sinh(x)^3/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 698

2.2.5993 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(x)/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
additional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 699

2.2.5994 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^3/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 701

2.2.5995 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x) \sinh(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)*sinh(x)/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 706

2.2.5996 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x) \sinh^3(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)*sinh(x)^3/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 708

2.2.5997 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x) \sinh^2(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^2*sinh(x)^2/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 710

2.2.5998 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x) \sinh(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^3*sinh(x)/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 712

2.2.5999 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x) \sinh^3(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^3*sinh(x)^3/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 714

2.2.6000 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x) \sinh^2(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)*sinh(x)^2/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 716

2.2.6001 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x) \sinh(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^2*sinh(x)/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 718

2.2.6002 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x) \sinh^3(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(x)^2*sinh(x)^3/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 720

2.2.6003 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x) \sinh^2(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(cosh(x)^3*sinh(x)^2/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for
more de
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 722

2.2.6004 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*sinh(x))/(b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 724

2.2.6005 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*sinh(x))/(b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 725

2.2.6006 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*sinh(x))/(b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 726

2.2.6007 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 727

2.2.6008 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 728

2.2.6009 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 729

2.2.6010 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cosh(x) + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cosh(x)+C*sinh(x))/(b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 734

2.2.6011 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cosh(x)+C*sinh(x))/(b*cosh(x)+c*sinh(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 736

2.2.6012 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cosh(x)+C*sinh(x))/(b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 737

2.2.6013 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cosh(x)+C*sinh(x))/(b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 738

2.2.6014 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 742

2.2.6015 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 743

2.2.6016 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for
more de
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 744

2.2.6017 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(x) + c \sinh(x))^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(1/(a+b*cosh(x)+c*sinh(x))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for
more de
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 745

2.2.6018 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 757

2.2.6019 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 758

2.2.6020 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2))^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 759

2.2.6021 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2))^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 760

2.2.6022 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + c \operatorname{sech}(x) + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+c*sech(x)+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 780

2.2.6023 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \operatorname{coth}(x) + c \operatorname{csch}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(a+b*coth(x)+c*csch(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 781

2.2.6024 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 782

2.2.6025 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + c \operatorname{sech}(x) + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)/(a+c*sech(x)+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 784

2.2.6026 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(x)}{a + c\operatorname{sech}(x) + b\tanh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sech(x)^2/(a+c*sech(x)+b*tanh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 785

2.2.6027 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(x)}{a + b\operatorname{coth}(x) + c\operatorname{csch}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)/(a+b*coth(x)+c*csch(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 787

2.2.6028 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(x)}{a + b \operatorname{coth}(x) + c \operatorname{csch}(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(csch(x)^2/(a+b*coth(x)+c*csch(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 788

2.2.6029 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*sinh(x))/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 789

2.2.6030 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 790

2.2.6031 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 791

2.2.6032 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 792

2.2.6033 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((A+B*cosh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 793

2.2.6034 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cosh(x))/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 794

2.2.6035 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cosh(x) + C \sinh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 795

2.2.6036 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cosh(x) + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 796

2.2.6037 Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cosh(x) + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 797

2.2.6038 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 798

2.2.6039 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 799

2.2.6040 Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((A+B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 800

2.2.6041 Maxima [F(-2)]

Exception generated.

$$\int \frac{b^2 - c^2 + ab \cosh(x) + ac \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((b^2-c^2+a*b*cosh(x)+a*c*sinh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 801

2.2.6042 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cosh(x)}{b^2 + 2ab \cosh(x) + a^2 \cosh^2(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*cosh(x))/(b^2+2*a*b*cosh(x)+a^2*cosh(x)^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 836

2.2.6043 Maxima [F(-2)]

Exception generated.

$$\int e^{a+bx} \sinh^3(c + dx) dx = \text{Exception raised: ValueError}$$

[In] integrate(exp(b*x+a)*sinh(d*x+c)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 878

2.2.6044 Maxima [F(-2)]

Exception generated.

$$\int e^{a+bx} \sinh^2(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(b*x+a)*sinh(d*x+c)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see 'assume?' for more detail)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 879

2.2.6045 Maxima [F(-2)]

Exception generated.

$$\int e^{a+bx} \sinh(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(b*x+a)*sinh(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)I

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 880

2.2.6046 Maxima [F(-2)]

Exception generated.

$$\int e^{a+bx} \cosh^3(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(b*x+a)*cosh(d*x+c)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 885

2.2.6047 Maxima [F(-2)]

Exception generated.

$$\int e^{a+bx} \cosh^2(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(b*x+a)*cosh(d*x+c)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see 'assume?' for more detail

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 886

2.2.6048 Maxima [F(-2)]

Exception generated.

$$\int e^{a+bx} \cosh(c + dx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(b*x+a)*cosh(d*x+c),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 887

2.2.6049 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh(a + bx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)*sinh(b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-d/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 945

2.2.6050 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh(a+bx) \sinh^2(a+bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)*sinh(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 946

2.2.6051 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh(a+bx) \sinh(a+bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)*sinh(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-d/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 947

2.2.6052 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)I

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 948

2.2.6053 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh^2(a + bx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)^2*sinh(b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)I

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 952

2.2.6054 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh^2(a+bx) \sinh^2(a+bx) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(exp(d*x+c)*cosh(b*x+a)^2*sinh(b*x+a)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(3-d/b>0)', see 'assume?' for more d
etails)
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_funct-
ions.txt

Test file number 185

Integral number in file 953

2.2.6055 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh^2(a+bx) \sinh(a+bx) dx = \text{Exception raised: ValueError}$$

```
[In] integrate(exp(d*x+c)*cosh(b*x+a)^2*sinh(b*x+a),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more de
tails)I
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_funct-
ions.txt

Test file number 185

Integral number in file 954

2.2.6056 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh^2(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-d/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 955

2.2.6057 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh^3(a + bx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)^3*sinh(b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-d/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 959

2.2.6058 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh^3(a+bx) \sinh^2(a+bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)^3*sinh(b*x+a)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)I

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 960

2.2.6059 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh^3(a+bx) \sinh(a+bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)^3*sinh(b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-d/b>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 961

2.2.6060 Maxima [F(-2)]

Exception generated.

$$\int e^{c+dx} \cosh^3(a+bx) dx = \text{Exception raised: ValueError}$$

[In] `integrate(exp(d*x+c)*cosh(b*x+a)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see 'assume?' for more details)I

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 962

2.2.6061 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{a+b \cosh(2x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(sinh(x)^2/(a+b*cosh(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more details)

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 1035

2.2.6062 Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x)}{a + b \cosh(2x)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(cosh(x)^2/(a+b*cosh(2*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see 'assume?' for more de

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 1036

2.2.6063 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 56

2.2.6064 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt`

Test file number 187

Integral number in file 58

2.2.6065 Maxima [F(-2)]

Exception generated.

$$\int x^2 (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt`

Test file number 187

Integral number in file 64

2.2.6066 Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 66

2.2.6067 Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 68

2.2.6068 Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 70

2.2.6069 Maxima [F(-2)]

Exception generated.

$$\int x^2 (\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^2*(pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 72

2.2.6070 Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 74

2.2.6071 Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 76

2.2.6072 Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2\pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 78

2.2.6073 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{\sqrt{\pi + c^2\pi x^2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^4*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 81

2.2.6074 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barcsinh}(cx))}{\sqrt{\pi + c^2\pi x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 83

2.2.6075 Maxima [F(-2)]

Exception generated.

$$\int x^2\sqrt{d + c^2dx^2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 121

2.2.6076 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt`

Test file number 187

Integral number in file 123

2.2.6077 Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt`

Test file number 187

Integral number in file 129

2.2.6078 Maxima [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt`

Test file number 187

Integral number in file 131

2.2.6079 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt`

Test file number 187

Integral number in file 133

2.2.6080 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 135

2.2.6081 Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^2*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 137

2.2.6082 Maxima [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt`

Test file number 187

Integral number in file 139

2.2.6083 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt`

Test file number 187

Integral number in file 141

2.2.6084 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 143

2.2.6085 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 146

2.2.6086 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 148

2.2.6087 Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 252

2.2.6088 Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt`

Test file number 187

Integral number in file 253

2.2.6089 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt`

Test file number 187

Integral number in file 254

2.2.6090 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 259

2.2.6091 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 261

2.2.6092 Maxima [F(-2)]

Exception generated.

$$\int x^2(d + c^2dx^2)^{3/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^2*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 267

2.2.6093 Maxima [F(-2)]

Exception generated.

$$\int (d + c^2dx^2)^{3/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 269

2.2.6094 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 271

2.2.6095 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 273

2.2.6096 Maxima [F(-2)]

Exception generated.

$$\int x^2(d + c^2dx^2)^{5/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^2*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 275

2.2.6097 Maxima [F(-2)]

Exception generated.

$$\int (d + c^2dx^2)^{5/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 277

2.2.6098 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 279

2.2.6099 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 281

2.2.6100 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b\operatorname{arcsinh}(cx))^2}{\sqrt{d + c^2dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 291

2.2.6101 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{arcsinh}(cx))^2}{\sqrt{d + c^2dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 293

2.2.6102 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^(5/2)*arcsinh(a*x)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 334

2.2.6103 Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 335

2.2.6104 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arcsinh(a*x)^3*(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 336

2.2.6105 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} \sqrt{f - icfx} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))*(f-I*c*f*x)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 534

2.2.6106 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))*(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 535

2.2.6107 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsinh(c*x))*(d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 536

2.2.6108 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} (f - icfx)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorit
hm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 540

2.2.6109 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} (f - icfx)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorit
hm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negativ
e exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 541

2.2.6110 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx}(f-icfx)^{3/2}(a+\operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))*(d+I*c*d*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 542

2.2.6111 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f-icfx)^{3/2}(a+\operatorname{barcsinh}(cx))}{\sqrt{d+icdx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 543

2.2.6112 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 546

2.2.6113 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 547

2.2.6114 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx}(f-icfx)^{5/2}(a+\operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))*(d+I*c*d*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 548

2.2.6115 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f-icfx)^{5/2}(a+\operatorname{barcsinh}(cx))}{\sqrt{d+icdx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 549

2.2.6116 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))}{\sqrt{f - icfx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 552

2.2.6117 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))}{\sqrt{f - icfx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 553

2.2.6118 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2*(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 570

2.2.6119 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))^2*(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 571

2.2.6120 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx} \sqrt{f-icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsinh(c*x))^2*(d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 572

2.2.6121 Maxima [F(-2)]

Exception generated.

$$\int (d+icdx)^{5/2} (f-icfx)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 576

2.2.6122 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2}(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 577

2.2.6123 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx}(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2*(d+I*c*d*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 578

2.2.6124 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + icdx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 579

2.2.6125 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 582

2.2.6126 Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 583

2.2.6127 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2*(d+I*c*d*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 584

2.2.6128 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + icdx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 585

2.2.6129 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{f - icfx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 588

2.2.6130 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{f - icfx}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 589

2.2.6131 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}(f - icfx)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 599

2.2.6132 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{3/2}(f - icfx)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(3/2)/(f-I*c*f*x)^(5/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 604

2.2.6133 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(c*x))/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 611

2.2.6134 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsinh}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 612

2.2.6135 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(c*x))^2/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 617

2.2.6136 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(c*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 632

2.2.6137 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(c*x))^(3/2)/(e*x^2+d),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 636

2.2.6138 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt`

Test file number 187

Integral number in file 647

2.2.6139 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt`

Test file number 187

Integral number in file 648

2.2.6140 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsinh}(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more detail

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 649

2.2.6141 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \operatorname{arcsinh}(cx))^2 dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(c*x))^2*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 652

2.2.6142 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details) Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 653

2.2.6143 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see 'assume?' for more detail

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 654

2.2.6144 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 34

2.2.6145 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 35

2.2.6146 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{d + c^2dx^2}(a + b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 36

2.2.6147 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d + c^2dx^2)^{3/2} (a + b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 39

2.2.6148 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 40

2.2.6149 Maxima [F(-2)]

Exception generated.

$$\int (f + gx) (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 41

2.2.6150 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{f + gx} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 42

2.2.6151 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 43

2.2.6152 Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 44

2.2.6153 Maxima [F(-2)]

Exception generated.

$$\int (f + gx) (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 45

2.2.6154 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{f + gx} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 46

2.2.6155 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 47

2.2.6156 Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 48

2.2.6157 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(c + dx)}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 121

2.2.6158 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arcsinh}(c + dx))^2}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 133

2.2.6159 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arcsinh}(c + dx))^3}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 143

2.2.6160 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^4}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^4/(d*e*x+c*e)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 152

2.2.6161 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + \operatorname{barcsinh}(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsinh(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 228

2.2.6162 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2}(a + \operatorname{barcsinh}(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(5/2)*(a+b*arcsinh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name [7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt](#)

Test file number 188

Integral number in file 229

2.2.6163 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2}(a + \operatorname{barcsinh}(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(3/2)*(a+b*arcsinh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name [7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt](#)

Test file number 188

Integral number in file 230

2.2.6164 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barcsinh}(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))*(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 231

2.2.6165 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(c + dx)}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 232

2.2.6166 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(c + dx)}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 233

2.2.6167 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(c + dx)}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 234

2.2.6168 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arcsinh}(c + dx)}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 235

2.2.6169 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + \operatorname{arcsinh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsinh(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 236

2.2.6170 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + \operatorname{barcsinh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(5/2)*(a+b*arcsinh(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 237

2.2.6171 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{barcsinh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(3/2)*(a+b*arcsinh(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 238

2.2.6172 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barcsinh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^2*(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 239

2.2.6173 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^2}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 240

2.2.6174 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arcsinh}(c + dx))^2}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 241

2.2.6175 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arcsinh}(c + dx))^2}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 242

2.2.6176 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^2}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 243

2.2.6177 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2}(a + \operatorname{barcsinh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsinh(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 244

2.2.6178 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + \operatorname{barcsinh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(5/2)*(a+b*arcsinh(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt`

Test file number 188

Integral number in file 245

2.2.6179 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{barcsinh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(3/2)*(a+b*arcsinh(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt`

Test file number 188

Integral number in file 246

2.2.6180 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barcsinh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^3*(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 247

2.2.6181 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^3}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 248

2.2.6182 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arcsinh}(c + dx))^3}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 249

2.2.6183 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arcsinh}(c + dx))^3}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 250

2.2.6184 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^3}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 251

2.2.6185 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + \operatorname{barcsinh}(c + dx))^4 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsinh(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 252

2.2.6186 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2}(a + \operatorname{barcsinh}(c + dx))^4 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(5/2)*(a+b*arcsinh(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 253

2.2.6187 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2}(a + \operatorname{barcsinh}(c + dx))^4 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(3/2)*(a+b*arcsinh(d*x+c))^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 254

2.2.6188 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barcsinh}(c + dx))^4 dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^4*(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 255

2.2.6189 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^4}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^4/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 256

2.2.6190 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^4}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^4/(d*e*x+c*e)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 257

2.2.6191 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^4}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsinh(d*x+c))^4/(d*e*x+c*e)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 258

2.2.6192 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arcsinh}(c + dx))^4}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsinh(d*x+c))^4/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 259

2.2.6193 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{1-x^2} \operatorname{arccosh}(x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccosh(x)*(-x^2+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 103

2.2.6194 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \operatorname{arccosh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*arccosh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 135

2.2.6195 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \operatorname{arccosh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arccosh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 137

2.2.6196 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \operatorname{arccosh}(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*arccosh(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 225

2.2.6197 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \operatorname{arccosh}(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arccosh(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 227

2.2.6198 Maxima [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{5/2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((-a^2*c*x^2+c)^(5/2)*arccosh(a*x)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 246

2.2.6199 Maxima [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{3/2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 247

2.2.6200 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccosh(a*x)^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 248

2.2.6201 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \operatorname{arccosh}(ax)^3}{\sqrt{1 - a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*arccosh(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 253

2.2.6202 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \operatorname{arccosh}(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arccosh(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 255

2.2.6203 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \operatorname{arccosh}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4*(a+b*arccosh(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 489

2.2.6204 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barccosh}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arccosh(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 491

2.2.6205 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 493

2.2.6206 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 495

2.2.6207 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{x^4(d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))/x^4/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 497

2.2.6208 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + \operatorname{arccosh}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x*(a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 499

2.2.6209 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{arccosh}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^4*(a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 502

2.2.6210 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{arccosh}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 503

2.2.6211 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 504

2.2.6212 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccosh(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 505

2.2.6213 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + \operatorname{arccosh}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 511

2.2.6214 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barccosh}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt`

Test file number 190

Integral number in file 512

2.2.6215 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt`

Test file number 190

Integral number in file 513

2.2.6216 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 514

2.2.6217 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 515

2.2.6218 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c^2*d>0)', see 'assume?' for more detail

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 516

2.2.6219 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 529

2.2.6220 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex^2}(a+\operatorname{arccosh}(cx))^2 dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))^2*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 530

2.2.6221 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+\operatorname{arccosh}(cx))^2}{\sqrt{d+ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 531

2.2.6222 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c^2*d>0)', see 'assume?' for more detail

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 532

2.2.6223 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{arccosh}(cx)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt`

Test file number 190

Integral number in file 555

2.2.6224 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))^(3/2)/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 559

2.2.6225 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(c*x)/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 5

2.2.6226 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(c*x)/(e*x+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 6

2.2.6227 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d+ex)^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(c*x)/(e*x+d)^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 7

2.2.6228 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)^2}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(c*x)^2/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 12

2.2.6229 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)^2}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(c*x)^2/(e*x+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 13

2.2.6230 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 18

2.2.6231 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))/(e*x+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 19

2.2.6232 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))^2/(e*x+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 25

2.2.6233 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(c*x))^2/(e*x+d)^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see 'assume?' for more

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 26

2.2.6234 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)}{(c+dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(a*x)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 49

2.2.6235 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)}{(c+dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(a*x)/(d*x^2+c)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 50

2.2.6236 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)}{(c+dx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(a*x)/(d*x^2+c)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 51

2.2.6237 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)}{(c+dx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(a*x)/(d*x^2+c)^(9/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see 'assume?' for more detail

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 52

2.2.6238 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 56

2.2.6239 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{(f + gx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 57

2.2.6240 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 61

2.2.6241 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

[In] `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 65

2.2.6242 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(a + bx)}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(b*x+a)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 88

2.2.6243 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(a + bx)}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(b*x+a)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 89

2.2.6244 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(a + bx)}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arccosh(b*x+a)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 90

2.2.6245 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{arccosh}(c + dx)}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 99

2.2.6246 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 110

2.2.6247 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^3}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 119

2.2.6248 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^4}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 127

2.2.6249 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2}(a + \operatorname{arccosh}(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(7/2)*(a+b*arccosh(d*x+c)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 198

2.2.6250 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + \operatorname{barccosh}(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(5/2)*(a+b*arccosh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 199

2.2.6251 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{barccosh}(c + dx)) dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(3/2)*(a+b*arccosh(d*x+c)),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 200

2.2.6252 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barccosh}(c + dx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))*(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 201

2.2.6253 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 202

2.2.6254 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 203

2.2.6255 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 204

2.2.6256 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(c + dx)}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 205

2.2.6257 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + \operatorname{arccosh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(7/2)*(a+b*arccosh(d*x+c))^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 206

2.2.6258 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + \operatorname{barccosh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(5/2)*(a+b*arccosh(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 207

2.2.6259 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{barccosh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

```
[In] integrate((d*e*x+c*e)^(3/2)*(a+b*arccosh(d*x+c))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 208

2.2.6260 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barccosh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^2*(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 209

2.2.6261 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^2}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 210

2.2.6262 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 211

2.2.6263 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 212

2.2.6264 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 213

2.2.6265 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{arccosh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(3/2)*(a+b*arccosh(d*x+c))^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 214

2.2.6266 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barccosh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^3*(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 215

2.2.6267 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^3}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 216

2.2.6268 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^3}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 217

2.2.6269 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^3}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 218

2.2.6270 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^3}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 219

2.2.6271 Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{arccosh}(c + dx))^4 dx = \text{Exception raised: ValueError}$$

[In] `integrate((d*e*x+c*e)^(3/2)*(a+b*arccosh(d*x+c))^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 220

2.2.6272 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barccosh}(c + dx))^4 dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^4*(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 221

2.2.6273 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^4}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 222

2.2.6274 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^4}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 223

2.2.6275 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^4}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 224

2.2.6276 Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arccosh}(c + dx))^4}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^(7/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 225

2.2.6277 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 279

2.2.6278 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 280

2.2.6279 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 281

2.2.6280 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x^4,x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more det
ails)Is
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 282

2.2.6281 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x^5} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x^5,x, algorithm="maxima"
)
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more det
ails)Is
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 283

2.2.6282 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arctanh}(ax)^3}{x^2(1-a^2x^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arctanh(a*x)^3/x^2/(-a^2*x^2+1)^2,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 278

2.2.6283 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arctanh}(ax)^3}{x^2(1-a^2x^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arctanh(a*x)^3/x^2/(-a^2*x^2+1)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 319

2.2.6284 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arctanh}(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arctanh(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt`

Test file number 194

Integral number in file 510

2.2.6285 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arctanh}(d + ex)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(arctanh(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name `7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.5_u-a+b_arctanh-c+d_x-^p.txt`

Test file number 195

Integral number in file 61

2.2.6286 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 822

2.2.6287 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 823

2.2.6288 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 824

2.2.6289 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 825

2.2.6290 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 839

2.2.6291 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 840

2.2.6292 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^3} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x^3,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 841

2.2.6293 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^4} dx = \text{Exception raised: ValueError}$$

[In] `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x^4,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 842

2.2.6294 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/(b*x+a+1)*(1-(b*x+a)^2)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 847

2.2.6295 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 949

2.2.6296 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 950

2.2.6297 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 951

2.2.6298 Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1156

2.2.6299 Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^2 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1157

2.2.6300 Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1158

2.2.6301 Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1159

2.2.6302 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-a^2cx^2}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1160

2.2.6303 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-a^2cx^2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1161

2.2.6304 Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c - a^2cx^2)^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1165

2.2.6305 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1293

2.2.6306 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1294

2.2.6307 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(7/2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1295

2.2.6308 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{9/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(9/2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1296

2.2.6309 Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{coth}^{-1}(d + ex)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(arccoth(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.1_Inverse_hyperbolic_cotangent_functions.txt

Test file number 198

Integral number in file 82

2.2.6310 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arcsech(c*x))/(e*x+d)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-ⁿ.txt

Test file number 200

Integral number in file 80

2.2.6311 Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^{3/2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(3/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-ⁿ.txt

Test file number 200

Integral number in file 81

2.2.6312 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex}(a+b\operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x+d)^(1/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 82

2.2.6313 Maxima [F(-2)]

Exception generated.

$$\int \frac{a+b\operatorname{sech}^{-1}(cx)}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*d-e>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 83

2.2.6314 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 84

2.2.6315 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 85

2.2.6316 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))/(e*x+d)^(7/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see 'assume?' for more details)

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 86

2.2.6317 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \operatorname{sech}^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 110

2.2.6318 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 112

2.2.6319 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 114

2.2.6320 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsech(c*x))/x/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 118

2.2.6321 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \operatorname{sech}^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsech(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 119

2.2.6322 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 120

2.2.6323 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{sech}^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 121

2.2.6324 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 122

2.2.6325 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 (a + b \operatorname{sech}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*(a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 124

2.2.6326 Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 125

2.2.6327 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 127

2.2.6328 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 128

2.2.6329 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{sech}^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 129

2.2.6330 Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(a+b*arcsech(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 130

2.2.6331 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(a+b*arcsech(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 131

2.2.6332 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsech(c*x))*(e*x^2+d)^(1/2)/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 133

2.2.6333 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsech(c*x))*(e*x^2+d)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 134

2.2.6334 Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arcsech(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 135

2.2.6335 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 136

2.2.6336 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsech(c*x))*(e*x^2+d)^(1/2)/x^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 137

2.2.6337 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsech(c*x))*(e*x^2+d)^(1/2)/x^4,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 138

2.2.6338 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arcsech(c*x))*(e*x^2+d)^(1/2)/x^6,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 139

2.2.6339 Maxima [F(-2)]

Exception generated.

$$\int x^3(d+ex^2)^{3/2}(a+b\operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 140

2.2.6340 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 142

2.2.6341 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 143

2.2.6342 Maxima [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^{3/2} (a + b\operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 144

2.2.6343 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b\operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 145

2.2.6344 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 146

2.2.6345 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 147

2.2.6346 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 148

2.2.6347 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^8} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^8,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 149

2.2.6348 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b\operatorname{sech}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(a+b*arcsech(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 150

2.2.6349 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b\operatorname{sech}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(a+b*arcsech(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 151

2.2.6350 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsech(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 153

2.2.6351 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^3\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsech(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 154

2.2.6352 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{sech}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 155

2.2.6353 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{sech}^{-1}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arcsech(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 156

2.2.6354 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt
```

```
Test file number 200
```

```
Integral number in file 157
```

2.2.6355 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

```
input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt
```

```
Test file number 200
```

```
Integral number in file 158
```

2.2.6356 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*arcsech(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 159

2.2.6357 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arcsech(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 160

2.2.6358 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 162

2.2.6359 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^3(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 163

2.2.6360 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsech(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 164

2.2.6361 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 165

2.2.6362 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 167

2.2.6363 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \operatorname{sech}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^5*(a+b*arcsech(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 168

2.2.6364 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 171

2.2.6365 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^3(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arcsech(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 172

2.2.6366 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^6*(a+b*arcsech(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 173

2.2.6367 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arcsech(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x-^n.txt

Test file number 200

Integral number in file 174

2.2.6368 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^3)} x^m dx = \text{Exception raised: ValueError}$$

[In] integrate((1/a/x^3+(1/a/x^3-1)^(1/2)*(1/a/x^3+1)^(1/2))*x^m,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-3>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 56

2.2.6369 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^m dx = \text{Exception raised: ValueError}$$

[In] integrate((1/a/x^2+(1/a/x^2-1)^(1/2)*(1/a/x^2+1)^(1/2))*x^m,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 57

2.2.6370 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} x^m dx = \text{Exception raised: ValueError}$$

[In] integrate((1/a/(x^p)+(1/a/(x^p)-1)^(1/2)*(1/a/(x^p)+1)^(1/2))*x^m,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-p>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 60

2.2.6371 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} x dx = \text{Exception raised: ValueError}$$

[In] integrate((1/a/(x^p)+(1/a/(x^p)-1)^(1/2)*(1/a/(x^p)+1)^(1/2))*x,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-p>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 61

2.2.6372 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} dx = \text{Exception raised: ValueError}$$

[In] `integrate(1/a/(x^p)+(1/a/(x^p)-1)^(1/2)*(1/a/(x^p)+1)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-p>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 62

2.2.6373 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{csch}^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 98

2.2.6374 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 100

2.2.6375 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 102

2.2.6376 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^4*(a+b*arccsch(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 107

2.2.6377 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 108

2.2.6378 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsch(c*x))/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 109

2.2.6379 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsch(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 110

2.2.6380 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^4*(a+b*arccsch(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 115

2.2.6381 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 116

2.2.6382 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsch(c*x))/(e*x^2+d)^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 117

2.2.6383 Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \operatorname{csch}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^5*(a+b*arccsch(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 118

2.2.6384 Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \operatorname{csch}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(a+b*arccsch(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 119

2.2.6385 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2} (a + b \operatorname{csch}^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))*(e*x^2+d)^(1/2)/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 121

2.2.6386 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{arcsch}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsch(c*x))*(e*x^2+d)^(1/2)/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 122

2.2.6387 Maxima [F(-2)]

Exception generated.

$$\int x^2\sqrt{d+ex^2}(a+b\operatorname{arcsch}(cx)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(a+b*arccsch(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 123

2.2.6388 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b\operatorname{csch}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))*(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 124

2.2.6389 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2}(a + b\operatorname{csch}^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))*(e*x^2+d)^(1/2)/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 125

2.2.6390 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{arcsch}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsch(c*x))*(e*x^2+d)^(1/2)/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 126

2.2.6391 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{arcsch}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsch(c*x))*(e*x^2+d)^(1/2)/x^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 127

2.2.6392 Maxima [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^{3/2} (a + \operatorname{arccsch}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arccsch(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 128

2.2.6393 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + \operatorname{arccsch}(cx))}{x} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 130

2.2.6394 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + \operatorname{arcsch}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

[In] integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^3,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 131

2.2.6395 Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + ex^2)^{3/2} (a + \operatorname{arcsch}(cx)) dx = \text{Exception raised: ValueError}$$

[In] integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arccsch(c*x)),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 132

2.2.6396 Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + bcsch^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x)),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 133

2.2.6397 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + bcsch^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

[In] `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^2,x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 134

2.2.6398 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + bcsch^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^4,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 135

2.2.6399 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + bcsch^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^6,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 136

2.2.6400 Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{arcsch}(cx))}{x^8} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^8,x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 137

2.2.6401 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \operatorname{arcsch}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^5*(a+b*arccsch(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 138

2.2.6402 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{bcsch}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^3*(a+b*arccsch(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x^n.txt

Test file number 202

Integral number in file 139

2.2.6403 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{bcsch}^{-1}(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsch(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x^n.txt

Test file number 202

Integral number in file 141

2.2.6404 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}^{-1}(cx)}{x^3 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 142

2.2.6405 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \operatorname{arcsch}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 143

2.2.6406 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 144

2.2.6407 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 145

2.2.6408 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate((a+b*arccsch(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt`

Test file number 202

Integral number in file 146

2.2.6409 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \operatorname{csch}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x^5*(a+b*arccsch(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name `7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt`

Test file number 202

Integral number in file 147

2.2.6410 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^3*(a+b*arccsch(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 148

2.2.6411 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{bcsch}^{-1}(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsch(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 150

2.2.6412 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}(cx)}{x^3 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a+b*arccsch(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 151

2.2.6413 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + b \operatorname{arcsch}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arccsch(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 152

2.2.6414 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-ⁿ.txt

Test file number 202

Integral number in file 153

2.2.6415 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{bcsch}^{-1}(cx)}{x^2(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsch(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-ⁿ.txt

Test file number 202

Integral number in file 155

2.2.6416 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^5*(a+b*arccsch(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 156

2.2.6417 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{bcsch}^{-1}(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsch(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 159

2.2.6418 Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{x^3 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a+b*arccsch(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 160

2.2.6419 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6 (a + b \operatorname{csch}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate(x^6*(a+b*arccsch(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume(e>0)', see 'assume?' for more detai
ls)Is e
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-
a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 161

2.2.6420 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{arcsch}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(x^4*(a+b*arccsch(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see 'assume?' for more details)Is e

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 162

2.2.6421 Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{csch}^{-1}(ax^2)} x^m dx = \text{Exception raised: ValueError}$$

[In] integrate((1/a/x^2+(1+1/a^2/x^4)^(1/2))*x^m,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_Inverse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 37

2.2.6422 Maxima [F(-2)]

Exception generated.

$$\int e^{2\operatorname{csch}^{-1}(ax)} x^m dx = \text{Exception raised: ValueError}$$

[In] integrate((1/a/x+(1+1/a^2/x^2)^(1/2))^2*x^m,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see 'assume?' for more details)Is

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_Inverse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 48

2.2.6423 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c+bx+ax^2}} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(a*x^2+b*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 428

2.2.6424 Maxima [F(-2)]

Exception generated.

$$\int \frac{-b + ax^2}{(b + cx + ax^2)\sqrt{bx + ax^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*x^2-b)/(a*x^2+c*x+b)/(a*x^3+b*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-4*a*b>0)', see 'assume?' for more details)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 451

2.2.6425 Maxima [F(-2)]

Exception generated.

$$\int \frac{ab - x^2}{\sqrt{x(-a+x)(-b+x)}(ab - (a+b+d)x + x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*b-x^2)/(x*(-a+x)*(-b+x))^(1/2)/(a*b-(a+b+d)*x+x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d+b+a)^2-4*a*b>0)', see 'assume?' for more)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 471

2.2.6426 Maxima [F(-2)]

Exception generated.

$$\int \frac{ab - x^2}{\sqrt{x(-a+x)(-b+x)}(abd - (1 + ad + bd)x + dx^2)} dx$$

= Exception raised: ValueError

```
[In] integrate((a*b-x^2)/(x*(-a+x)*(-b+x))^(1/2)/(a*b*d-(a*d+b*d+1)*x+d*x^2),x,
algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((b*d+a*d+1)^2>0)', see 'assume?' fo
r more
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 472

2.2.6427 Maxima [F(-2)]

Exception generated.

$$\int \frac{ab - 2ax + x^2}{\sqrt{x(-a+x)(-b+x)}(ad - (b+d)x + x^2)} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((a*b-2*a*x+x^2)/(x*(-a+x)*(-b+x))^(1/2)/(a*d-(b+d)*x+x^2),x, algo
rithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
dditional constraints; using the 'assume' command before evaluation *may* h
elp (example of legal syntax is 'assume((d+b)^2-4*a*d>0)', see 'assume?' fo
r more
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 566

2.2.6428 Maxima [F(-2)]

Exception generated.

$$\int \frac{ab - 2ax + x^2}{\sqrt{x(-a+x)(-b+x)}(a - (1+bd)x + dx^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*b-2*a*x+x^2)/(x*(-a+x)*(-b+x))^(1/2)/(a-(b*d+1)*x+d*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b*d+1)^2-4*a*d>0)', see 'assume?' for more)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 567

2.2.6429 Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - 2x + k^2x^2}{\sqrt{(1-x)x(1-k^2x)}(-1+2x+(-2+k^2)x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((k^2*x^2-2*x+1)/((1-x)*x*(-k^2*x+1))^(1/2)/(-1+2*x+(k^2-2)*x^2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(k-1>0)', see 'assume?' for more details)Is

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 699

2.2.6430 Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - 2x + k^2 x^2}{(-1 + 2x - 2x^2 + k^2 x^2) \sqrt{x - x^2 - k^2 x^2 + k^2 x^3}} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((k^2*x^2-2*x+1)/(k^2*x^2-2*x^2+2*x-1)/(k^2*x^3-k^2*x^2-x^2+x)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(k-1>0)', see 'assume?' for more details)Is
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 702

2.2.6431 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{1 - x^2 - y^4} dx = \text{Exception raised: ValueError}$$

```
[In] integrate((-y^4-x^2+1)^(1/2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(y-1>0)', see 'assume?' for more details)Is
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 734

2.2.6432 Maxima [F(-2)]

Exception generated.

$$\int \frac{ab + ac - bc - 2ax + x^2}{\sqrt{(-a+x)(-b+x)(-c+x)}(bc + ad - (b+c+d)x + x^2)} dx$$

= Exception raised: ValueError

```
[In] integrate((a*b+a*c-2*a*x-b*c+x^2)/((-a+x)*(-b+x)*(-c+x))^(1/2)/(b*c+a*d-(b+c+d)*x+x^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d+c+b)^2>0)', see 'assume?' for more details)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 775

2.2.6433 Maxima [F(-2)]

Exception generated.

$$\int \frac{ab + ac - bc - 2ax + x^2}{\sqrt{(-a+x)(-b+x)(-c+x)}(a + bcd - (1 + bd + cd)x + dx^2)} dx$$

= Exception raised: ValueError

```
[In] integrate((a*b+a*c-2*a*x-b*c+x^2)/((-a+x)*(-b+x)*(-c+x))^(1/2)/(a+b*c*d-(b*c*d+1)*x+d*x^2),x, algorithm="maxima")
```

```
[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((c*d+b*d+1)^2>0)', see 'assume?' for more details)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 776

2.2.6434 Maxima [F(-2)]

Exception generated.

$$\int \frac{-b + a^2x^2}{(b + 2abx + a^2x^2)\sqrt{bx + a^2x^3}} dx = \text{Exception raised: ValueError}$$

[In] integrate((a^2*x^2-b)/(a^2*x^2+2*a*b*x+b)/(a^2*x^3+b*x)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-1>0)', see 'assume?' for more details)Is

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 780

2.2.6435 Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + bx + ax^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*x^2+b*x+c)^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 955

2.2.6436 Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + k^2 x^2}{\sqrt{(1-x)x(1-k^2x)}(a+bx+ak^2x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((k^2*x^2-1)/((1-x)*x*(-k^2*x+1))^(1/2)/(a*k^2*x^2+b*x+a),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*a*k-b>0)', see 'assume?' for more detail

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 997

2.2.6437 Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + kx^2}{(1 + ckx + kx^2) \sqrt{(1-x^2)(1-k^2x^2)}} dx = \text{Exception raised: ValueError}$$

[In] integrate((k*x^2-1)/(c*k*x+k*x^2+1)/((-x^2+1)*(-k^2*x^2+1))^(1/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2*k-4>0)', see 'assume?' for more detail

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1388

2.2.6438 Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - x^5}{\sqrt{a + bx}(1 + x^5)} dx = \text{Exception raised: ValueError}$$

[In] integrate((-x^5+1)/(b*x+a)^(1/2)/(x^5+1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see 'assume?' for more detail

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1862

2.2.6439 Maxima [F(-2)]

Exception generated.

$$\int \frac{-x + x^2}{\sqrt{(1-x)x(1-k^2x)}(1-2x+k^2x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((x^2-x)/((1-x)*x*(-k^2*x+1))^(1/2)/(k^2*x^2-2*x+1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(k-1>0)', see 'assume?' for more details)Is

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2367

2.2.6440 Maxima [F(-2)]

Exception generated.

$$\int (c + bx + ax^2)^{5/2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*x^2+b*x+c)^(5/2),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2433

2.2.6441 Maxima [F(-2)]

Exception generated.

$$\int \frac{-a - bx + (b + ak^2)x^2}{\sqrt{(1-x)x(1-k^2x)}(1-2x+k^2x^2)} dx = \text{Exception raised: ValueError}$$

[In] integrate((-a-b*x+(a*k^2+b)*x^2)/((1-x)*x*(-k^2*x+1))^(1/2)/(k^2*x^2-2*x+1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(k-1>0)', see 'assume?' for more details)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2848

2.2.6442 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + bx + ax^2)^{5/2}}{c + bx} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*x^2+b*x+c)^(5/2)/(b*x+c),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2921

2.2.6443 Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + bx + ax^2)^{5/2}}{(c + bx)^2} dx = \text{Exception raised: ValueError}$$

[In] integrate((a*x^2+b*x+c)^(5/2)/(b*x+c)^2,x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see 'assume?' for more details)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2959

2.2.6444 Maxima [F(-2)]

Exception generated.

$$\int \frac{1+x}{(1-ax)\sqrt[4]{\frac{1-bx}{c+x}}} dx = \text{Exception raised: ValueError}$$

[In] integrate((1+x)/(-a*x+1)/((-b*x+1)/(c+x))^(1/4),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see 'assume?' for more details)Is

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3012

2.2.6445 Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c_4 + \sqrt{\frac{c_0+x c_1}{c_2+x c_3}} c_5 (c_6 + x c_7)^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(_C4+((C1*x+_C0)/(C3*x+_C2))^(1/2)*_C5)^(1/2)/(_C7*x+_C6)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3137

2.2.6446 Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[6]{\frac{1-bx}{c+x}}(1+dx^2)}{(1+bx)(1+cx)} dx = \text{Exception raised: ValueError}$$

[In] integrate(((b*x+1)/(c+x))^(1/6)*(d*x^2+1)/(b*x+1)/(c*x+1),x, algorithm="maxima")

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*c-1>0)', see 'assume?' for more details)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3138

2.2.6447 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{18}{2x^2+x^2 \log(x)}} (-90 + 4x^2 + (-36 + 4x^2) \log(x) + x^2 \log^2(x))}{4x^2 + 4x^2 \log(x) + x^2 \log^2(x)} dx$$

= Exception raised: RuntimeError

[In] integrate((x^2*log(x)^2+(4*x^2-36)*log(x)+4*x^2-90)*exp(18/(x^2*log(x)+2*x^2))/(x^2*log(x)^2+4*x^2*log(x)+4*x^2),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 86

2.2.6448 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4x^3}{11x-2e^2x-2x^2+2\log(x)}}(-8x^2+88x^3-16e^2x^3-8x^4+24x^2\log(x))}{121x^2+4e^4x^2-44x^3+4x^4+e^2(-44x^2+8x^3)+(44x-8e^2x-8x^2)\log(x)+4\log^2(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((24*x^2*log(x)-16*x^3*exp(2)-8*x^4+88*x^3-8*x^2)*exp(2*x^3/(2*log(x)-2*exp(2)*x-2*x^2+11*x))^2/(4*log(x)^2+(-8*exp(2)*x-8*x^2+44*x)*log(x)+4*x^2*exp(2)^2+(8*x^3-44*x^2)*exp(2)+4*x^4-44*x^3+121*x^2),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 152

2.2.6449 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{4+2x+2\log(x^2)}}(-16+8x+20x^2+6x^3+(-16+17x+11x^2)\log(x^2)+(-4+6x)\log^2(x^2))}{8x^3-8x^4-6x^5+4x^6+2x^7+(8x^3-12x^4+4x^6)\log(x^2)+(2x^3-4x^4+2x^5)\log^2(x^2)} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((6*x-4)*log(x^2)^2+(11*x^2+17*x-16)*log(x^2)+6*x^3+20*x^2+8*x-16)*exp(x/(2*log(x^2)+2*x+4))/((2*x^5-4*x^4+2*x^3)*log(x^2)^2+(4*x^6-12*x^4+8*x^3)*log(x^2)+2*x^7+4*x^6-6*x^5-8*x^4+8*x^3),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 284

2.2.6450 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-4x^2+x^2 \log(\log(x))} (-5 + 40 \log(x) - 10 \log(x) \log(\log(x)))}{16x^3 \log(x) - 8x^3 \log(x) \log(\log(x)) + x^3 \log(x) \log^2(\log(x))} dx$$

= Exception raised: RuntimeError

```
[In] integrate((-10*log(x)*log(log(x))+40*log(x)-5)*exp(5/(x^2*log(log(x))-4*x^2
)))/(x^3*log(x)*log(log(x))^2-8*x^3*log(x)*log(log(x))+16*x^3*log(x)),x, alg
orithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 330

2.2.6451 Maxima [F(-2)]

Exception generated.

$$\int \frac{4x^3 \log(x) \log^2(\log(x)) + e^{\frac{-8x-5e^3x+x^2-10\log(\log(x))}{\log(\log(x))}} (8 + 5e^3 - x + (-8 - 5e^3 + 2x) \log(x) \log(\log(x))) + e^{-\log(x) \log(\log(x))}}{\log(x) \log(\log(x))^2} dx$$

= Exception raised: RuntimeError

```
[In] integrate((((-5*exp(3)+2*x-8)*log(x)*log(log(x))+5*exp(3)+8-x)*exp(1/2*(-10
*log(log(x))-5*x*exp(3)+x^2-8*x)/log(log(x)))^2+(4*x*log(x)*log(log(x))^2+(
-5*x^2*exp(3)+2*x^3-8*x^2)*log(x)*log(log(x))+5*x^2*exp(3)-x^3+8*x^2)*exp(1
/2*(-10*log(log(x))-5*x*exp(3)+x^2-8*x)/log(log(x)))+4*x^3*log(x)*log(log(x
))^2)/log(x)/log(log(x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 473

2.2.6452 Maxima [F(-2)]

Exception generated.

$$\int \frac{(600 + 630x + 30x^2) \log\left(\frac{20+x}{4}\right) \log^2\left(\log\left(\frac{20+x}{4}\right)\right) + e^{\frac{2(e^5 x^2 - 3x^3 \log(\log(\frac{20+x}{4})))}{15 \log(\log(\frac{20+x}{4}))}} (-2e^5 x^2 + e^5(80x + 4x^2) \log$$

= Exception raised: RuntimeError

```
[In] integrate(((((-18*x^3-360*x^2)*log(5+1/4*x)*log(log(5+1/4*x))^2+(4*x^2+80*x)
*exp(5)*log(5+1/4*x)*log(log(5+1/4*x))-2*x^2*exp(5))*exp(1/15*(-3*x^3*log(1
og(5+1/4*x))+x^2*exp(5))/log(log(5+1/4*x)))^2+((-18*x^4-378*x^3-360*x^2+30*
x+600)*log(5+1/4*x)*log(log(5+1/4*x))^2+(4*x^3+84*x^2+80*x)*exp(5)*log(5+1/
4*x)*log(log(5+1/4*x))+(-2*x^3-2*x^2)*exp(5))*exp(1/15*(-3*x^3*log(log(5+1/
4*x))+x^2*exp(5))/log(log(5+1/4*x)))+(30*x^2+630*x+600)*log(5+1/4*x)*log(lo
g(5+1/4*x))^2)/(15*x+300)/log(5+1/4*x)/log(log(5+1/4*x))^2,x, algorithm="ma
xima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 556

2.2.6453 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{6x}{4e^{10+2\log(x)}}} x^2 - 4e^{\frac{4x^4}{10+2\log(x)}} x \log\left(\frac{1}{x}\right) + \log^2\left(\frac{1}{x}\right)}{-25 \log^3\left(\frac{1}{x}\right) - 10 \log^3\left(\frac{1}{x}\right) \log(x) - \log^3\left(\frac{1}{x}\right) \log^2(x) + e^{\frac{9x}{10+2\log(x)}} (200x^3 + 80x^3 \log(x) + 8x^3 \log^2(x))} \left(-200x^3 - 400x^3 \log\left(\frac{1}{x}\right) + (-80x^3 - 160$$

= Exception raised: RuntimeError

```
[In] integrate((((16*x^4*log(x)^2+(-24*x^5+160*x^4)*log(x)-96*x^5+400*x^4)*exp(3*
x/(2*log(x)+10))+(-16*x^3*log(1/x)-8*x^3)*log(x)^2+(-160*x^3*log(1/x)-80*x^
3)*log(x)-400*x^3*log(1/x)-200*x^3)*exp(4*x^4/(4*x^2*exp(3*x/(2*log(x)+10))
^2-4*x*log(1/x)*exp(3*x/(2*log(x)+10))+log(1/x)^2))/((8*x^3*log(x)^2+80*x^3
*log(x)+200*x^3)*exp(3*x/(2*log(x)+10))^3+(-12*x^2*log(1/x)*log(x)^2-120*x^
```

```
2*log(1/x)*log(x)-300*x^2*log(1/x))*exp(3*x/(2*log(x)+10))^2+(6*x*log(1/x)^
2*log(x)^2+60*x*log(1/x)^2*log(x)+150*x*log(1/x)^2)*exp(3*x/(2*log(x)+10))-
log(1/x)^3*log(x)^2-10*log(1/x)^3*log(x)-25*log(1/x)^3),x, algorithm="maxim
a")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 797

2.2.6454 Maxima [F(-2)]

Exception generated.

$$\int 4^{\frac{-16-8x-x^2}{-2-2x+2\log(\log(x^2))}} \left((32 + 48x + 18x^2 + 2x^3) \log(4) + (2 + 8x + 10x^2 + 4x^3 + (-8x - 6x^2 + 3x^3 + x^4) \log(4)) \right) \frac{dx}{(2 + 4x + 2x^2) \log(x^2) + (-4 - 4x - 2x^2) \log(x^2)}$$

= Exception raised: RuntimeError

```
[In] integrate(((4*x+2)*log(x^2)*log(log(x^2))^2+(2*(-2*x^3-10*x^2-8*x)*log(2)-8
*x^2-12*x-4)*log(x^2)*log(log(x^2)))+(2*(x^4+3*x^3-6*x^2-8*x)*log(2)+4*x^3+1
0*x^2+8*x+2)*log(x^2)+2*(2*x^3+18*x^2+48*x+32)*log(2))*exp(2*(-x^2-8*x-16)*
log(2)/(2*log(log(x^2))-2*x-2))/(2*log(x^2)*log(log(x^2))^2+(-4-4*x)*log(x^
2)*log(log(x^2)))+(2*x^2+4*x+2)*log(x^2)),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 835

2.2.6455 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{5/4}(-360 + 72x) \log^3(x) + e^{5/4}(-90 + 36x) \log^4(x) + (180 - 72x) \log^5(x)}{-e^{25/4} + 10e^5 \log(x) - 40e^{15/4} \log^2(x) + 80e^{5/2} \log^3(x) - 80e^{5/4} \log^4(x) + 32 \log^5(x)} dx = \text{Exception raised}$$

```
[In] integrate((( -72*x+180)*log(x)^5+(36*x-90)*exp(5/4)*log(x)^4+(72*x-360)*exp(5/4)*log(x)^3)/(32*log(x)^5-80*exp(5/4)*log(x)^4+80*exp(5/4)^2*log(x)^3-40*exp(5/4)^3*log(x)^2+10*exp(5/4)^4*log(x)-exp(5/4)^5),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 852

2.2.6456 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{2(4x-36x^2+(3-108x)\log(\log(\frac{e^x}{x})))}{x+3\log(\log(\frac{e^x}{x}))}} \frac{(18x^2 - 18x^3 + (2x^3 - 72x^4) \log(\frac{e^x}{x}) + (30x^2 - 432x^3) \log(\frac{e^x}{x}) \log(\log(\frac{e^x}{x})))}{x^2 \log(\frac{e^x}{x}) + 6x \log(\frac{e^x}{x}) \log(\log(\frac{e^x}{x})) + 9 \log(\frac{e^x}{x}) \log^2(\log(\frac{e^x}{x}))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((( -648*x^2+18*x)*log(exp(x)/x)*log(log(exp(x)/x))^2+(-432*x^3+30*x^2)*log(exp(x)/x)*log(log(exp(x)/x))+(-72*x^4+2*x^3)*log(exp(x)/x)-18*x^3+18*x^2)*exp((( -108*x+3)*log(log(exp(x)/x))-36*x^2+4*x)/(3*log(log(exp(x)/x))+x))^2/(9*log(exp(x)/x)*log(log(exp(x)/x))^2+6*x*log(exp(x)/x)*log(log(exp(x)/x))+x^2*log(exp(x)/x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1407

2.2.6457 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{-x+x \log(3)-4x \log\left(\frac{25+6x+5 \log(x)}{5+x+\log(x)}\right)}{4 \log\left(\frac{25+6x+5 \log(x)}{5+x+\log(x)}\right)}} \left(4x - 4x \log(3) + (x - x \log(3)) \log(x) + (-125 - 55x - 6x^2 + (125 + 55x\right.$$

= Exception raised: RuntimeError

```
[In] integrate((( -20*log(x)^2+(-44*x-200)*log(x)-24*x^2-220*x-500)*log((5*log(x)
+6*x+25)/(5+log(x)+x))^2+((5*log(3)-5)*log(x)^2+((11*x+50)*log(3)-11*x-50)*
log(x)+(6*x^2+55*x+125)*log(3)-6*x^2-55*x-125)*log((5*log(x)+6*x+25)/(5+log
(x)+x))+(-x*log(3)+x)*log(x)-4*x*log(3)+4*x)*exp(1/4*(-4*x*log((5*log(x)+6*
x+25)/(5+log(x)+x))+x*log(3)-x)/log((5*log(x)+6*x+25)/(5+log(x)+x)))/(20*log
(x)^2+(44*x+200)*log(x)+24*x^2+220*x+500)/log((5*log(x)+6*x+25)/(5+log(x)+
x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1456

2.2.6458 Maxima [F(-2)]

Exception generated.

$$\int \frac{-25x + e^{\frac{1}{5}(-26-5x^2+5 \log(x^2))}(-250 + 250x^2)}{25e^{\frac{2}{5}(-26-5x^2+5 \log(x^2))}x + 10e^{\frac{1}{5}(-26-5x^2+5 \log(x^2))}x^2 + x^3} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((250*x^2-250)*exp(log(x^2)-x^2-26/5)-25*x)/(25*x*exp(log(x^2)-x^
2-26/5)^2+10*x^2*exp(log(x^2)-x^2-26/5)+x^3),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1508

2.2.6459 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{2x}(120 - 480x + 400x^2 - 40x^4 + e^{2/3})}{64000 - 72000x + 3000x^2 + 14625x^3 - 375x^4 - 1125x^5 - 125x^6 + e^2(-1 + 3x - 3x^2 + x^3) + e^{4/3}(120 - 480x + 400x^2 - 40x^4 + e^{2/3})} dx$$

```
[In] integrate(((8*x^3-24*x^2+24*x-8)*exp(2/3)-40*x^4+400*x^2-480*x+120)*exp(x)^2/((x^3-3*x^2+3*x-1)*exp(2/3)^3+(-15*x^4-15*x^3+195*x^2-285*x+120)*exp(2/3)^2+(75*x^5+375*x^4-975*x^3-3075*x^2+8400*x-4800)*exp(2/3)-125*x^6-1125*x^5-375*x^4+14625*x^3+3000*x^2-72000*x+64000),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1522

2.2.6460 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log^2(\log(x)) + e^{\frac{2x^2}{\log(\log(x))}} (-2x + 4x \log(x) \log(\log(x)))}{\log(x) \log^2(\log(x))} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((4*x*log(x)*log(log(x))-2*x)*exp(x^2/log(log(x)))^2+log(x)*log(log(x))^2)/log(x)/log(log(x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1820

2.2.6461 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^x(-60x^2 + 24x^3)\log^2(x) + e^x(24x^2 - 12x^3)\log^3(x) + e^{\frac{5-3x^3\log(x)}{3x^2\log(x)}}(20e^x + 40e^x\log(x) + 24e^xx^2\log^2(x))}{3x^5\log^2(x)}$$

= Exception raised: RuntimeError

```
[In] integrate(1/3*((24*x^2*exp(x)*log(x)^2+40*exp(x)*log(x)+20*exp(x))*exp(1/3*
(-3*x^3*log(x)+5)/x^2/log(x))+(-12*x^3+24*x^2)*exp(x)*log(x)^3+(24*x^3-60*x
^2)*exp(x)*log(x)^2)/x^5/log(x)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1913

2.2.6462 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-2-x}{(-x+2x^3)\log(x)}}(-2-x+4x^2+2x^3+(-2+12x^2+4x^3)\log(x))}{(x^2-4x^4+4x^6)\log^2(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((4*x^3+12*x^2-2)*log(x)+2*x^3+4*x^2-x-2)*exp((-2-x)/(2*x^3-x)/lo
g(x))/(4*x^6-4*x^4+x^2)/log(x)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2019

2.2.6463 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{135x}{-5x^2+\log(x)}} (-270x + 1350x^3 + 50x^4 + (270x - 20x^2) \log(x) + 2 \log^2(x))}{375x^4 - 150x^2 \log(x) + 15 \log^2(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((2*log(x)^2+(-20*x^2+270*x)*log(x)+50*x^4+1350*x^3-270*x)*exp(135*x/(log(x)-5*x^2))/(15*log(x)^2-150*x^2*log(x)+375*x^4),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2240

2.2.6464 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 + 2x \log(x) + \log^2(x) + e^{\frac{2(25+ex^2+ex \log(x))}{x^2+x \log(x)}} (-25 - 50x + x^3 + (-25 + 2x^2) \log(x) + x \log^2(x))}{x^2 + 2x \log(x) + \log^2(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((x*log(x)^2+(2*x^2-25)*log(x)+x^3-50*x-25)*exp((x*exp(1)*log(x)+x^2*exp(1)+25)/(x*log(x)+x^2))^2+log(x)^2+2*x*log(x)+x^2)/(log(x)^2+2*x*log(x)+x^2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2344

2.2.6465 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-15+5x}{39x-8x^2-4x^3+x^4} \log(x)} (-585 + 315x + 20x^2 - 35x^3 + 5x^4 + (-585 + 240x + 140x^2 - 100x^3 + 15x^4) \log(x)}{(1521x^2 - 624x^3 - 248x^4 + 142x^5 - 8x^7 + x^8) \log^2(x)}$$

= Exception raised: RuntimeError

```
[In] integrate(((15*x^4-100*x^3+140*x^2+240*x-585)*log(x)+5*x^4-35*x^3+20*x^2+31
5*x-585)*exp((5*x-15)/(x^4-4*x^3-8*x^2+39*x)/log(x))/(x^8-8*x^7+142*x^5-248
*x^4-624*x^3+1521*x^2)/log(x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2570

2.2.6466 Maxima [F(-2)]

Exception generated.

$$\int \frac{-16x + 256\sqrt[5]{e}x - 256x^2 - 1024x^3 + (-48 + 768\sqrt[5]{e} - 768x - 3072x^2) \log(2) + (-16x + 256\sqrt[5]{e}x + 1024x^2 - 1024x^3 + 4096x^4 + 384x^5 + \sqrt[5]{e}(-32x - 512x^2 - 1024x^3)) \log(x)}{(x + 256e^{2/5}x + 32x^2 + 384x^3 + 2048x^4 + 4096x^5 + \sqrt[5]{e}(-32x - 512x^2 - 1024x^3)) \log(2) \log(x)}$$

```
[In] integrate((((6144*x^2+768*x)*log(2)+256*x*exp(1/5)+1024*x^3-16*x)*log(x)*lo
g(log(x))+(768*exp(1/5)-3072*x^2-768*x-48)*log(2)+256*x*exp(1/5)-1024*x^3-2
56*x^2-16*x)/(256*x*exp(1/5)^2+(-2048*x^3-512*x^2-32*x)*exp(1/5)+4096*x^5+2
048*x^4+384*x^3+32*x^2+x)/log(2)/log(x),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2697

2.2.6467 Maxima [F(-2)]

Exception generated.

$$\int \frac{-28x^2 - 48x^3 - 20x^4 + (i\pi + \log(5 - e))^4 (-20 - 10 \log(\frac{4}{x^2})) + (-14x^2 - 28x^3 - 10x^4) \log(\frac{4}{x^2}) + (i\pi + \log(5 - e))^4 (5x^4 + 10x^5 + 5x^6 + (20x^4 + 20x^5) (i\pi + \log(5 - e)))}{5x^4 + 10x^5 + 5x^6 + (20x^4 + 20x^5) (i\pi + \log(5 - e))} dx$$

= Exception raised: ValueError

```
[In] integrate((( -10*log(4/x^2)-20)*log(exp(1)-5)^4+(-40*x*log(4/x^2)-80*x)*log(
exp(1)-5)^3+((-60*x^2-20*x)*log(4/x^2)-120*x^2-48*x)*log(exp(1)-5)^2+((-40*
x^3-48*x^2)*log(4/x^2)-80*x^3-96*x^2)*log(exp(1)-5)+(-10*x^4-28*x^3-14*x^2)
*log(4/x^2)-20*x^4-48*x^3-28*x^2)/(5*x^2*log(exp(1)-5)^4+20*x^3*log(exp(1)-
5)^3+(30*x^4+10*x^3)*log(exp(1)-5)^2+(20*x^5+20*x^4)*log(exp(1)-5)+5*x^6+10
*x^5+5*x^4),x, algorithm="maxima")
```

[Out] Exception raised: ValueError >> Computation failed since Maxima requested a
 dditional constraints; using the 'assume' command before evaluation *may* h
 elp (example of legal syntax is 'assume(4*log(%e-5)+1>0)', see 'assume?' fo
 r more

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2729

2.2.6468 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{2x}(2+x) + (e^x(4+2x) + e^{2x}(3x+2x^2)) \log(x) + (2-4e^{2x}+x-4e^{3x}x+e^x(6x+4x^2)) \log^2(x) + (3e^{4x}x \log^2(x) + 2e^{3x}x \log^3(x) + e^{2x}x \log^4(x))}{e^{4x}x \log^2(x) + 2e^{3x}x \log^3(x) + e^{2x}x \log^4(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((2*x^2+3*x)*log(x)^3+(-4*x*exp(x)^3-4*exp(x)^2+(4*x^2+6*x)*exp(x)
)+2*x)*log(x)^2+((2*x^2+3*x)*exp(x)^2+(4+2*x)*exp(x))*log(x)+(2+x)*exp(x)^2
)/(x*exp(x)^2*log(x)^4+2*x*exp(x)^3*log(x)^3+x*exp(x)^4*log(x)^2),x, algori
thm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
 eefined.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2985

2.2.6469 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1+x-3x^3-6x^4-3x^5}{5e^x x^2-5x^3}} (3x + 2x^2 + 6x^5 + 6x^6 + e^x(-2 - 2x - x^2 - 3x^3 - 9x^4 - 3x^5 + 3x^6))}{5e^{2x}x^3 - 10e^x x^4 + 5x^5} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((3*x^6-3*x^5-9*x^4-3*x^3-x^2-2*x-2)*exp(x)+6*x^6+6*x^5+2*x^2+3*x
)*exp((-3*x^5-6*x^4-3*x^3+x+1)/(5*exp(x)*x^2-5*x^3))/(5*exp(x)^2*x^3-10*exp
(x)*x^4+5*x^5),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3034

2.2.6470 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-3x^2+(15x+9x^2)\log(\log(5-\log(x)))}{(5+3x)\log(\log(5-\log(x)))}} (75x^2 + 45x^3 + (750x^2 + 225x^3 + (-150x^2 - 45x^3)\log(x))\log(5 - \log(x))\log(5 - \log(x)))}{(-125 - 150x - 45x^2 + (25x^2 + 150x + 125)\log(5 - \log(x)))} dx$$

= Exception raised: RuntimeError

```
[In] integrate((((135*x^3+495*x^2+525*x+125)*log(x)-675*x^3-2475*x^2-2625*x-625)
*log(5-log(x))*log(log(5-log(x)))^2+((-45*x^3-150*x^2)*log(x)+225*x^3+750*x
^2)*log(5-log(x))*log(log(5-log(x)))+45*x^3+75*x^2)*exp(((9*x^2+15*x)*log(1
og(5-log(x)))-3*x^2)/(3*x+5)/log(log(5-log(x)))))/((9*x^2+30*x+25)*log(x)-45
*x^2-150*x-125)/log(5-log(x))/log(log(5-log(x)))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3050

2.2.6471 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e^x(1+4x+4\log^2(3)) + \log(x)) \log^2(e^x(1+4x+4\log^2(3)) + \log(x)) + e^{\frac{x}{\log(e^x(1+4x+4\log^2(3)) + \log(x))}} (-1)}{(e^x(1+4x+4\log^2(3)) + \log(x))}$$

= Exception raised: RuntimeError

```
[In] integrate((((log(x)+(4*log(3)^2+4*x+1)*exp(x))*log(log(x)+(4*log(3)^2+4*x+1)*exp(x))+(-4*x*log(3)^2-4*x^2-5*x)*exp(x)-1)*exp(x/log(log(x)+(4*log(3)^2+4*x+1)*exp(x))))+(log(x)+(4*log(3)^2+4*x+1)*exp(x))*log(log(x)+(4*log(3)^2+4*x+1)*exp(x))^2)/(log(x)+(4*log(3)^2+4*x+1)*exp(x))/log(log(x)+(4*log(3)^2+4*x+1)*exp(x))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3330

2.2.6472 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{2e^{x^2} + x^3 \log(e^{x^2} + 2x)}{\log(e^{x^2} + 2x)}} \frac{(-4e^{x^2} - 4e^{2x^2}x + (4e^{2x^2}x + 8e^{x^2}x^2) \log(e^{x^2} + 2x) + (3e^{x^2}x^2 + 6x^3) \log^2(e^{x^2} + 2x))}{(e^{x^2} + 2x) \log^2(e^{x^2} + 2x)}$$

= Exception raised: RuntimeError

```
[In] integrate(((3*x^2*exp(x^2)+6*x^3)*log(exp(x^2)+2*x)^2+(4*x*exp(x^2)^2+8*x^2*exp(x^2))*log(exp(x^2)+2*x)-4*x*exp(x^2)^2-4*exp(x^2))*exp((x^3*log(exp(x^2)+2*x)+2*exp(x^2))/log(exp(x^2)+2*x)))/(exp(x^2)+2*x)/log(exp(x^2)+2*x)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3379

2.2.6473 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2x \log(x)} + \frac{1}{2x \log(x)}} (-3 - 3 \log(x)) - 6x^2 \log^2(x)}{8e^{4+e^{\frac{1}{2x \log(x)}}} x^2 \log^2(x) - 8e^4 x^3 \log^2(x)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((( -3*log(x)-3)*exp(1/2/x/log(x))*exp(exp(1/2/x/log(x))) - 6*x^2*log(x)^2)/(8*x^2*exp(4)*log(x)^2*exp(exp(1/2/x/log(x))) - 8*x^3*exp(4)*log(x)^2), x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3386

2.2.6474 Maxima [F(-2)]

Exception generated.

$$\int \frac{-180x^2 + 60x^3 + e^{\frac{1}{4}(3+4x)}(-36x^2 + 24x^3 - 3x^4) + e^x(36x^2 - 24x^3 + 3x^4)}{25 - 10e^x + e^{2x} + e^{\frac{1}{2}(3+4x)} + e^{\frac{1}{4}(3+4x)}(10 - 2e^x)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((( -3*x^4+24*x^3-36*x^2)*exp(3/4+x)+(3*x^4-24*x^3+36*x^2)*exp(x)+60*x^3-180*x^2)/(exp(3/4+x)^2+(-2*exp(x)+10)*exp(3/4+x)+exp(x)^2-10*exp(x)+25), x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3601

2.2.6475 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{\log\left(-e^2 + e^{\frac{7}{(5+x)\log(x)} - x}\right)}} \left((25x^2 + 10x^3 + x^4) \log^2(x) + e^{\frac{7}{(5+x)\log(x)}} (35x + 7x^2 + 7x^2 \log(x)) + \log^2(-e^2 + e^{\frac{7}{(5+x)\log(x)})} \right)}{\dots}$$

= Exception raised: RuntimeError

```
[In] integrate((((-x^2-10*x-25)*log(x)^2*exp(7/log(x)/(5+x)))+(x^2+10*x+25)*exp(
2)+x^3+10*x^2+25*x)*log(x)^2*log(exp(7/log(x)/(5+x))-exp(2)-x)^2+((x^3+10*
x^2+25*x)*log(x)^2*exp(7/log(x)/(5+x)))+((-x^3-10*x^2-25*x)*exp(2)-x^4-10*x^
3-25*x^2)*log(x)^2*log(exp(7/log(x)/(5+x))-exp(2)-x)+(7*x^2*log(x)+7*x^2+3
5*x)*exp(7/log(x)/(5+x))+(x^4+10*x^3+25*x^2)*log(x)^2)*exp(x/log(exp(7/log(
x)/(5+x))-exp(2)-x))/((x^4+10*x^3+25*x^2)*log(x)^2*exp(7/log(x)/(5+x)))+((-x
^4-10*x^3-25*x^2)*exp(2)-x^5-10*x^4-25*x^3)*log(x)^2)/log(exp(7/log(x)/(5+x
))-exp(2)-x)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3691

2.2.6476 Maxima [F(-2)]

Exception generated.

$$\int \frac{-4096x^3 - 768x^6 - 48x^9 - x^{12} + (-73728 + 442368x - 516096x^2 - 446976x^3 - 18432x^4 - 105984x^5)}{\dots}$$

= Exception raised: RuntimeError

```
[In] integrate((((-18*x^13-54*x^12-864*x^10-2592*x^9-864*x^8-17280*x^7-41472*x^6-
13824*x^5-142848*x^4-202752*x^3-221184*x+73728)*log(x)^2+(-18*x^13-108*x^12
-162*x^11-864*x^10-5184*x^9-7200*x^8-12096*x^7-82944*x^6-105984*x^5-18432*x
^4-446976*x^3-516096*x^2+442368*x-73728)*log(x)-x^12-48*x^9-768*x^6-4096*x^
3)/(x^12+48*x^9+768*x^6+4096*x^3),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3912

2.2.6477 Maxima [F(-2)]

Exception generated.

$$\int \frac{-10x^7 \log(2) + (45x^4 + 5x^9) \log^2(2) + (10x^5 + (-54x^2 - 6x^7) \log(2)) \log(9 + x^5) + (9 + x^5) \log^2(9 + x^5)}{(9 + x^5) \log^2(2)} dx$$

= Exception raised: RuntimeError

[In] integrate(((x^5+9)*log(x^5+9)^2+((-6*x^7-54*x^2)*log(2)+10*x^5)*log(x^5+9)+(5*x^9+45*x^4)*log(2)^2-10*x^7*log(2))/(x^5+9)/log(2)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(sqrt(5)-5)

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3971

2.2.6478 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{4x^2+x^2 \log(169)}{20 \log(50-x)}} \frac{(-4x^2 - x^2 \log(169) + (-400x + 8x^2 + (-100x + 2x^2) \log(169)) \log(50 - x))}{(-1000 + 20x) \log^2(50 - x)} dx$$

= Exception raised: RuntimeError

[In] integrate(((2*(2*x^2-100*x)*log(13)+8*x^2-400*x)*log(-x+50)-2*x^2*log(13)-4*x^2)*exp(1/20*(2*x^2*log(13)+4*x^2)/log(-x+50))/(20*x-1000)/log(-x+50)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4051

2.2.6479 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-15+3x}{x+\log(x)}} (15x^3 + 12x^4 + 3x^5 + e^x(-15 - 12x - x^3) + (-15x^2 - 12x^3 - 2x^4) \log(15) + (9x^4 + e^x(-3x - 2x^3 + 4x^2 \log(x) + 2x \log^2(x)))}{2x^3 + 4x^2 \log(x) + 2x \log^2(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((( -exp(x)*x-2*x^2*log(15)+3*x^3)*log(x)^2+((-2*x^2-3*x)*exp(x)-7*x^3*log(15)+9*x^4)*log(x)+(-x^3-12*x-15)*exp(x)+(-2*x^4-12*x^3-15*x^2)*log(15)+3*x^5+12*x^4+15*x^3)*exp((3*x-15)/(x+log(x)))/(2*x*log(x)^2+4*x^2*log(x)+2*x^3),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4134

2.2.6480 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{180x^3}{(-1+x)\log(x)}} (-180x^2 + 180x^3 + (540x^2 - 360x^3) \log(x))}{(1 - 2x + x^2) \log^2(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((( -360*x^3+540*x^2)*log(x)+180*x^3-180*x^2)*exp(-180*x^3/(-1+x)/log(x))/(x^2-2*x+1)/log(x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4177

2.2.6481 Maxima [F(-2)]

Exception generated.

$$\int e^{-4 + \frac{-2x + e^4 \log(x+x^2) \log(\log(x))}{e^4 \log(x+x^2)}} \frac{((12x + 24x^2) \log(x) + (-12x - 12x^2) \log(x) \log(x + x^2) + e^4(6 + 6x) \log^2(x + x^2))}{(x + x^2) \log(x) \log^2(x + x^2)}$$

= Exception raised: RuntimeError

```
[In] integrate(((6*6*x)*exp(4)*log(x^2+x)^2+(-12*x^2-12*x)*log(x)*log(x^2+x)+(24*x^2+12*x)*log(x))*exp((exp(4)*log(x^2+x)*log(log(x))-2*x)/exp(4)/log(x^2+x)))/(x^2+x)/exp(4)/log(x)/log(x^2+x)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4476

2.2.6482 Maxima [F(-2)]

Exception generated.

$$\int \frac{81x^2 + 18x^4 + x^6 + (162x + 18x^3) \log(2) + 81 \log^2(2) + (-81x^2 - 18x^3 - 18x^4 - 2x^5 - x^6 + (-162x - 18x^3) \log(2))}{(x^4 \log(x)^2 + (-18x^2 \log(2) - 2x^5 - 18x^3 - 6x^2) \log(x) + 81 \log(2)^2 + (18x^3 + 162x) \log(2) + x^6 + 18x^4 + 9x^3 + 78x^2 + 27x) \exp(-3/(x^2 \log(x) - 9 \log(2) - x^3 - 9x)) - x^4 \log(x)^3 + (18x^2 \log(2) + 2x^5 + x^4 + 18x^3) \log(x)^2 + (-81 \log(2)^2 + (-18x^3 - 18x^2 - 162x) \log(2) - x^6 - 2x^5 - 18x^4 - 18x^3 - 81x^2) \log(x) + 81 \log(2)^2 + (18x^3 + 162x) \log(2) + x^6 + 18x^4 + 81x^2)}{(x^6 \log(x)^2 + (-18x^4 \log(2) - 2x^7 - 18x^5) \log(x) + 81x^2 \log(2)^2 + (18x^5 + 162x^3) \log(2) + x^8 + 18x^6 + 81x^4)}, x, algorithm="maxima")$$

= Exception raised: RuntimeError

```
[In] integrate(((x^4*log(x)^2+(-18*x^2*log(2)-2*x^5-18*x^3-6*x^2)*log(x)+81*log(2)^2+(18*x^3+162*x)*log(2)+x^6+18*x^4+9*x^3+78*x^2+27*x)*exp(-3/(x^2*log(x)-9*log(2)-x^3-9*x))-x^4*log(x)^3+(18*x^2*log(2)+2*x^5+x^4+18*x^3)*log(x)^2+(-81*log(2)^2+(-18*x^3-18*x^2-162*x)*log(2)-x^6-2*x^5-18*x^4-18*x^3-81*x^2)*log(x)+81*log(2)^2+(18*x^3+162*x)*log(2)+x^6+18*x^4+81*x^2)/(x^6*log(x)^2+(-18*x^4*log(2)-2*x^7-18*x^5)*log(x)+81*x^2*log(2)^2+(18*x^5+162*x^3)*log(2)+x^8+18*x^6+81*x^4),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4629

2.2.6483 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}(-1-10x)}(-17-85x) + e^x(-3x^2 + e^{\frac{1}{2}(-1-10x)}(3+18x))}{3e^{-1-10x} - 6e^{\frac{1}{2}(-1-10x)}x + 3x^2} dx$$

= Exception raised: RuntimeError

```
[In] integrate((((18*x+3)*exp(-5*x-1/2)-3*x^2)*exp(x)+(-85*x-17)*exp(-5*x-1/2))/
(3*exp(-5*x-1/2)^2-6*x*exp(-5*x-1/2)+3*x^2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4793

2.2.6484 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1250}{x \log(2x)}}(-2500 - 2500 \log(2x)) + e^{-\frac{2500}{x \log(2x)}}(2500 + 2500 \log(2x))}{x^2 \log^2(2x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((2500*log(2*x)+2500)*exp(-1250/x/log(2*x))^2+(-2500*log(2*x)-250
0)*exp(-1250/x/log(2*x)))/x^2/log(2*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5539

2.2.6485 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-7x+e^{36+e^4+12x^2+x^4+e^2(-12-2x^2)}}{16+\log(x)}x} \left(-105 + e^{36+e^4+12x^2+x^4+e^2(-12-2x^2)} (15 + 384x^2 - 64e^2x^2 + 64x^4) + (-7 - \dots \right)}{256 + 32 \log(x) + \log^2(x)}$$

= Exception raised: RuntimeError

```
[In] integrate(((((-4*x^2*exp(2)+4*x^4+24*x^2+1)*exp(exp(2)^2+(-2*x^2-12)*exp(2)+
x^4+12*x^2+36)-7)*log(x)+(-64*x^2*exp(2)+64*x^4+384*x^2+15)*exp(exp(2)^2+(-
2*x^2-12)*exp(2)+x^4+12*x^2+36)-105)*exp((x*exp(exp(2)^2+(-2*x^2-12)*exp(2)
+x^4+12*x^2+36)-7*x)/(16+log(x)))/(log(x)^2+32*log(x)+256),x, algorithm="ma
xima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5649

2.2.6486 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{4\log(x)}} \left(-e^{\frac{625-1000x+100x^2+440x^3-71x^4-88x^5+4x^6+8x^7+x^8}{x^4}} x^5 - x^6 - x^7 + \left(e^{\frac{625-1000x+100x^2+440x^3-71x^4-88x^5+4x^6+8x^7+x^8}{x^4}} \dots \right) \right)}{\dots}$$

= Exception raised: RuntimeError

```
[In] integrate(1/4*(((16*x^8+96*x^7+32*x^6-352*x^5-1760*x^3-800*x^2+12000*x-1000
0)*exp((x^8+8*x^7+4*x^6-88*x^5-71*x^4+440*x^3+100*x^2-1000*x+625)/x^4)+8*x^
6+4*x^5)*log(x)^2+(x^5*exp((x^8+8*x^7+4*x^6-88*x^5-71*x^4+440*x^3+100*x^2-1
000*x+625)/x^4)+x^7+x^6)*log(x)-x^5*exp((x^8+8*x^7+4*x^6-88*x^5-71*x^4+440*
x^3+100*x^2-1000*x+625)/x^4)-x^7-x^6)*exp(1/4*x/log(x))/x^5/log(x)^2,x, alg
orithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5688

2.2.6487 Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 12x^2) \log^2(x) + e^{\frac{4+4x \log(x)}{x \log(x)}} (-80x - 80x \log(x) + 60x^2 \log^2(x)) + e^{\frac{2(4+4x \log(x))}{x \log(x)}} (-200x - 200x \log(x))}{\log^2(x)}$$

= Exception raised: RuntimeError

```
[In] integrate(((75*x^2*log(x)^2-200*x*log(x)-200*x)*exp((4*x*log(x)+4)/x/log(x))
)^2+(60*x^2*log(x)^2-80*x*log(x)-80*x)*exp((4*x*log(x)+4)/x/log(x))+(12*x^2
+3)*log(x)^2)/log(x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5709

2.2.6488 Maxima [F(-2)]

Exception generated.

$$\int \frac{-10x + e^{3/4}x - x^4 + (50 - 50x^3 - x^6 + e^{3/4}(-5 + 4x^3)) \log(x) + (-20x + 2e^{3/4}x + x^4) \log(x) \log(\log(x))}{(25x^2 - 10x^5 + x^8) \log(x) + (-10x^3 + 2x^6) \log(x) \log(\log(x)) + x^4 \log(x) \log^2(\log(x))}$$

```
[In] integrate(((2*x*exp(3/4)+x^4-20*x)*log(x)*log(log(x)))+((4*x^3-5)*exp(3/4)-x
^6-50*x^3+50)*log(x)+x*exp(3/4)-x^4-10*x)/(x^4*log(x)*log(log(x))^2+(2*x^6-
10*x^3)*log(x)*log(log(x))+(x^8-10*x^5+25*x^2)*log(x)),x, algorithm="maxima
")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6221

2.2.6489 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-x + \frac{e^{-x}(2e^x + 5x)}{\log(-3+2x)}} (100e^x + 250x + (375 - 625x + 250x^2) \log(-3 + 2x))}{(-3 + 2x) \log^2(-3 + 2x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((((250*x^2-625*x+375)*log(-3+2*x)+100*exp(x)+250*x)*exp((2*exp(x)+5*x)/exp(x)/log(-3+2*x)))/(-3+2*x)/exp(x)/log(-3+2*x)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6237

2.2.6490 Maxima [F(-2)]

Exception generated.

$$\int \frac{-8x + 10x^2 - 2x^3 + e^{2+2x}(-20 - 6x + 2x^2) + e^{1+x}(16 - 2x - 8x^2 + 2x^3) + e^{\frac{x^2}{4}}(-2x + 2x^2 + e^{1+x}(4 - 2x^2))}{(x^2 - 4) \exp(1+x) \log(-\exp(1/4*x^2) + x - 4) + (x^2 - 4) \exp(1+x)^2 + (-3*x^2 + 4) \exp(1+x) + 2*x^2 - 2*x) \exp(1/4*x^2) + (2*x^2 - 6*x - 20) \exp(1+x)^2 + (2*x^3 - 8*x^2 - 2*x + 16) \exp(1+x) - 2*x^3 + 10*x^2 - 8*x)}{(x^2 - 4) \exp(1+x) \log(-\exp(1/4*x^2) + x - 4) + (x^2 - 4) \exp(1+x)^2 + (-x + 4) \exp(1+x)^2}, x, algorithm="maxima")$$

= Exception raised: RuntimeError

```
[In] integrate((((((2-x)*exp(1+x)^2+(-2+2*x)*exp(1+x))*exp(1/4*x^2)+(-2*x+10)*exp(1+x)^2+(-2*x^2+10*x-8)*exp(1+x))*log(-exp(1/4*x^2)+x-4)+((x^2-4)*exp(1+x)^2+(-3*x^2+4)*exp(1+x)+2*x^2-2*x)*exp(1/4*x^2)+(2*x^2-6*x-20)*exp(1+x)^2+(2*x^3-8*x^2-2*x+16)*exp(1+x)-2*x^3+10*x^2-8*x)/(exp(1+x)^2*exp(1/4*x^2)+(-x+4)*exp(1+x)^2),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6266

2.2.6491 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3e^{x^2}}{\log((4-x)\log(x))}} \left(e^{x^2} (60 - 15x) \log(4) - 15e^{x^2} x \log(4) \log(x) + e^{x^2} (-120x^2 + 30x^3) \log(4) \log(x) \log((4-x) \log(x)) \right)}{(-4x + x^2) \log(x) \log^2((4-x) \log(x))}$$

= Exception raised: RuntimeError

```
[In] integrate((2*(30*x^3-120*x^2)*log(2)*exp(x^2)*log(x)*log((-x+4)*log(x))-30*x*log(2)*exp(x^2)*log(x)+2*(-15*x+60)*log(2)*exp(x^2))*exp(3*exp(x^2)/log((-x+4)*log(x)))/(x^2-4*x)/log(x)/log((-x+4)*log(x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6303

2.2.6492 Maxima [F(-2)]

Exception generated.

$$\int \frac{400 - 1200x + 900x^2}{1600 - 3200x - 800x^2 + 2400x^3 + 900x^4 + e^{2e^5} (4x^2 - 12x^3 + 9x^4) + e^{\frac{2x^2}{-2+3x}} (4x^2 - 12x^3 + 9x^4) + e^{-\frac{x}{-2+3x}}}$$

= Exception raised: RuntimeError

```
[In] integrate((( -15*x^4+20*x^3)*exp(x^2/(-2+3*x))+900*x^2-1200*x+400)/((9*x^4-12*x^3+4*x^2)*exp(exp(5))^2+((18*x^4-24*x^3+8*x^2)*exp(x^2/(-2+3*x))+180*x^4+120*x^3-400*x^2+160*x)*exp(exp(5))+(9*x^4-12*x^3+4*x^2)*exp(x^2/(-2+3*x))^2+(180*x^4+120*x^3-400*x^2+160*x)*exp(x^2/(-2+3*x))+900*x^4+2400*x^3-800*x^2-3200*x+1600),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6376

2.2.6493 Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log^2(\log(x)) + e^{\frac{3x}{\log(\log(x))}} (-3 + 3 \log(x) \log(\log(x)))}{\log(x) \log^2(\log(x))} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((3*log(x)*log(log(x))-3)*exp(3/2*x/log(log(x)))^2+log(x)*log(log(x))^2)/log(x)/log(log(x))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6406

2.2.6494 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{e^x}{\log(-9+x)}} (e^x x + e^x (9x - x^2) \log(-9 + x) + (9 - x) \log^2(-9 + x))}{(-45x^2 + 5x^3 + e(-9x^2 + x^3)) \log^2(-9 + x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((9-x)*log(x-9)^2+(-x^2+9*x)*exp(x)*log(x-9)+exp(x)*x)*exp(-exp(x)/log(x-9))/((x^3-9*x^2)*exp(1)+5*x^3-45*x^2)/log(x-9)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6530

2.2.6495 Maxima [F(-2)]

Exception generated.

$$\int \frac{-16x + (-4 - 4x) \log(3) + e^x(16 + 8 \log(3))}{-4x^2 + (3x - e^{5/3}x - x^2) \log(3) + e^x(4x + (-3 + e^{5/3} + x) \log(3)) + (e^x \log(3) - x \log(3)) \log(-e^x +$$

```
[In] integrate(((8*log(3)+16)*exp(x)+(-4-4*x)*log(3)-16*x)/((log(3)*exp(x)-x*log(3))*log(x-exp(x))+((exp(5/3)+x-3)*log(3)+4*x)*exp(x)+(-x*exp(5/3)-x^2+3*x)*log(3)-4*x^2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6604

2.2.6496 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{-8+x-2 \log(x)+10x \log(4-2x-\log(5))}{2x \log(4-2x-\log(5))}} \frac{(8x - x^2 + (-12 + 6x + 3 \log(5)) \log(4 - 2x - \log(5)) + \log(x)(2x + (-4 + (-4x^2 + 2x^3 + x^2 \log(5)) \log^2(4 - 2x - \log(5))))}{(8x - x^2 + (-12 + 6x + 3 \log(5)) \log(4 - 2x - \log(5)) + \log(x)(2x + (-4 + (-4x^2 + 2x^3 + x^2 \log(5)) \log^2(4 - 2x - \log(5))))}$$

```
= Exception raised: RuntimeError
```

```
[In] integrate((((log(5)+2*x-4)*log(-log(5)+4-2*x)+2*x)*log(x)+(3*log(5)+6*x-12)*log(-log(5)+4-2*x)-x^2+8*x)*exp(1/2*(-2*log(x)+10*x*log(-log(5)+4-2*x)-8+x)/x/log(-log(5)+4-2*x))/(x^2*log(5)+2*x^3-4*x^2)/log(-log(5)+4-2*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6634

2.2.6497 Maxima [F(-2)]

Exception generated.

$$\int \frac{(-3+x)\log(3-x) + \frac{e^{e^{e^5}} + e^{e^{e^5}}(e^3+x)}{\log(3-x)} (-e^3x-x^2+(-3x+x^2)\log(3-x))}{(-3x+x^2)\log(3-x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((((x^2-3*x)*log(-x+3)-x*exp(3)-x^2)*exp(-log(log(-x+3))+exp(exp(5)))
)))*exp((exp(3)+x)*exp(-log(log(-x+3))+exp(exp(5))))+(-3+x)*log(-x+3))/(x^2
-3*x)/log(-x+3),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6772

2.2.6498 Maxima [F(-2)]

Exception generated.

$$\int \frac{-2125x^2 + 11750x^3 - 13125x^4 - 9000x^5 + 5625x^2 - 46500x^3 + 131350x^4 - 136700x^5 + 18025x^6 + 28200x^7 + 3600x^8 + e^{\frac{2x}{-1+3x}} (9 - 78x + 241x^2)}{5625x^2 - 46500x^3 + 131350x^4 - 136700x^5 + 18025x^6 + 28200x^7 + 3600x^8 + e^{\frac{2x}{-1+3x}} (9 - 78x + 241x^2)}$$

= Exception raised: RuntimeError

```
[In] integrate(((575*x^2-375*x+75)*exp(x/(-1+3*x))-9000*x^5-13125*x^4+11750*x^3-
2125*x^2)/(((144*x^4-312*x^3+241*x^2-78*x+9)*exp(x/(-1+3*x))^2+(-1440*x^6-40
80*x^5+13190*x^4-11270*x^3+3810*x^2-450*x)*exp(x/(-1+3*x))+3600*x^8+28200*x
^7+18025*x^6-136700*x^5+131350*x^4-46500*x^3+5625*x^2)),x, algorithm="maxima
")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6945

2.2.6499 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{16}(54 + 3e^2 - 54x - 18x^2 - 12ex^2 - 18x^3) + e^{16-\frac{x}{2}}(36 + e^2(6 - 3x) - 36x - 12x^2 - 15ex^2)}{9 + e^4 + 4e^3x + 6x^2 + x^4 + e^2(6 + 6x^2) + e(12x + 4x^3) + e^{2x}(9 + 6x^2 + x^4) + e^{3x/2}(36 + 24x^2 + 4x^4)}$$

```
[In] integrate((( -3*x^3-3*x^2-9*x+9)*exp(16-x)*exp(1/2*x)^4+(-3*x^2*exp(1)-12*x^3-12*x^2-36*x+36)*exp(16-x)*exp(1/2*x)^3+(3*exp(1)^2-12*x^2*exp(1)-18*x^3-18*x^2-54*x+54)*exp(16-x)*exp(1/2*x)^2+((-3*x+6)*exp(1)^2-15*x^2*exp(1)-12*x^3-12*x^2-36*x+36)*exp(16-x)*exp(1/2*x)+((-3*x+3)*exp(1)^2-6*x^2*exp(1)-3*x^3-3*x^2-9*x+9)*exp(16-x))/((x^4+6*x^2+9)*exp(1/2*x)^4+((4*x^3+12*x)*exp(1)+4*x^4+24*x^2+36)*exp(1/2*x)^3+((6*x^2+6)*exp(1)^2+(12*x^3+36*x)*exp(1)+6*x^4+36*x^2+54)*exp(1/2*x)^2+(4*x*exp(1)^3+(12*x^2+12)*exp(1)^2+(12*x^3+36*x)*exp(1)+4*x^4+24*x^2+36)*exp(1/2*x)+exp(1)^4+4*x*exp(1)^3+(6*x^2+6)*exp(1)^2+(4*x^3+12*x)*exp(1)+x^4+6*x^2+9),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6964

2.2.6500 Maxima [F(-2)]

Exception generated.

$$\int e^{-2x+e^{-2x}(x^5+2x^4 \log(5)+x^3 \log^2(5)+e^x(-2x^3-2x^2 \log(5)) \log(x)+e^{2x}x \log^2(x)+(e^x(-2x^3-2x^2 \log(5))+2e^{2x}x \log(x)) \log(-\frac{\log(x)}{-2+x}))} dx$$

= Exception raised: RuntimeError

```
[In] integrate((( -2+x)*exp(x)^2*log(x)*log(-log(x)/(-2+x))^2+((2*x-4)*exp(x)^2*log(x)^2+(-4*exp(x)^2+((2*x^3-8*x^2+8*x)*log(5)+2*x^4-10*x^3+12*x^2)*exp(x))*log(x)+(2*x-4)*exp(x)^2)*log(-log(x)/(-2+x))+(-2+x)*exp(x)^2*log(x)^3+(-4*exp(x)^2+((2*x^3-8*x^2+8*x)*log(5)+2*x^4-10*x^3+12*x^2)*exp(x))*log(x)^2+((2*x-4)*exp(x)^2+(4*x*log(5)+4*x^2)*exp(x)+(-2*x^4+7*x^3-6*x^2)*log(5)^2+(-4*x^5+16*x^4-16*x^3)*log(5)-2*x^6+9*x^5-10*x^4)*log(x)+((-2*x^2+4*x)*log(5)-2*x^3+4*x^2)*exp(x))*exp((x*exp(x)^2*log(-log(x)/(-2+x))^2+(2*x*exp(x)^2*log(x)^2+(-4*exp(x)^2+((2*x^3-8*x^2+8*x)*log(5)+2*x^4-10*x^3+12*x^2)*exp(x))*log(x)+(-2+x)*exp(x)^2)*log(-log(x)/(-2+x)))
```

```
g(x)+(-2*x^2*log(5)-2*x^3)*exp(x))*log(-log(x)/(-2+x))+x*exp(x)^2*log(x)^2+
(-2*x^2*log(5)-2*x^3)*exp(x)*log(x)+x^3*log(5)^2+2*x^4*log(5)+x^5)/exp(x)^2
)/(-2+x)/exp(x)^2/log(x),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7076

2.2.6501 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{e^{2/x} x - x \log(3x^4 - 6x^2 \log(6) + 3 \log^2(6))}{\log(3x^4 - 6x^2 \log(6) + 3 \log^2(6))}} (4e^{2/x} x^3 + e^{2/x} (2x^2 - x^3 + (-2 + x) \log(6)) \log(3x^4 - 6x^2 \log(6) + 3 \log^2(6))) \frac{dx}{(-x^3 + x \log(6)) \log^2(3x^4 - 6x^2 \log(6) + 3 \log^2(6))}$$

```
[In] integrate(((x*log(6)+x^3)*log(3*log(6)^2-6*x^2*log(6)+3*x^4)^2+((-2+x)*log
(6)-x^3+2*x^2)*exp(2/x)*log(3*log(6)^2-6*x^2*log(6)+3*x^4)+4*x^3*exp(2/x))*
exp((-x*log(3*log(6)^2-6*x^2*log(6)+3*x^4)+x*exp(2/x))/log(3*log(6)^2-6*x^2
*log(6)+3*x^4))/(x*log(6)-x^3)/log(3*log(6)^2-6*x^2*log(6)+3*x^4)^2,x, algo
rithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7116

2.2.6502 Maxima [F(-2)]

Exception generated.

$$\int \frac{-6 - 2\sqrt[5]{e} + \sqrt[5]{e} \log(-x)}{-864 + 432\sqrt[5]{e} \log(-x) - 72e^{2/5} \log^2(-x) + 4e^{3/5} \log^3(-x)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((exp(1/5)*log(-x)-2*exp(1/5)-6)/(4*exp(1/5)^3*log(-x)^3-72*exp(1/
5)^2*log(-x)^2+432*exp(1/5)*log(-x)-864),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7400

2.2.6503 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{12}{(-15+20x)\log(x\log^2(2))}} (72 - 96x - 96x \log(x\log^2(2)))}{(45x - 120x^2 + 80x^3) \log^2(x\log^2(2))} dx$$

= Exception raised: RuntimeError

[In] integrate((-96*x*log(x*log(2)^2)-96*x+72)*exp(12/(20*x-15)/log(x*log(2)^2))/(80*x^3-120*x^2+45*x)/log(x*log(2)^2)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7422

2.2.6504 Maxima [F(-2)]

Exception generated.

$$\int \frac{25 + e^{\frac{1}{5}(-7+5x-2x^3)}(-25 + 25x - 30x^3)}{6 - 12e^{\frac{1}{5}(-7+5x-2x^3)} + 6e^{\frac{2}{5}(-7+5x-2x^3)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(((-30*x^3+25*x-25)*exp(-2/5*x^3+x-7/5)+25)/(6*exp(-2/5*x^3+x-7/5)^2-12*exp(-2/5*x^3+x-7/5)+6),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7424

2.2.6505 Maxima [F(-2)]

Exception generated.

$$\int \frac{(-2x^2 + 2x \log(x)) \log^2(x - \log(x)) + e^{\frac{2(x+(1+x)\log(x-\log(x)))}{\log(x-\log(x))}} (-2 + 2x + (-2x + 2 \log(x)) \log(x - \log(x)))}{1} dx$$

= Exception raised: RuntimeError

```
[In] integrate((((2*log(x)-2*x)*log(x-log(x))^2+(2*log(x)-2*x)*log(x-log(x))+2*x
-2)*exp(((1+x)*log(x-log(x))+x)/log(x-log(x)))^2+(((2-2*x)*log(x)+2*x^2+2*
x)*log(x-log(x))^2+(-2*x*log(x)+2*x^2)*log(x-log(x))-2*x^2+2*x)*exp(((1+x)*
log(x-log(x))+x)/log(x-log(x)))+(2*x*log(x)-2*x^2)*log(x-log(x))^2)/(log(x)
-x)/log(x-log(x))^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7553

2.2.6506 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{x+(1-x-x^2)\log(e^{2x}+2e^{3x}+e^{4x}+x)}{\log(e^{2x}+2e^{3x}+e^{4x}+x)}} \frac{(-x - 2e^{2x}x - 6e^{3x}x - 4e^{4x}x + (e^{2x} + 2e^{3x} + e^{4x} + x) \log(e^{2x} + 2e^{3x} + e^{4x} + x))}{(e^{2x} + 2e^{3x} + e^{4x} + x) \log^2(e^{2x} + 2e^{3x} + e^{4x} + x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((((-1-2*x)*exp(2*x)^2+(-4*x-2)*exp(x)*exp(2*x)+(-1-2*x)*exp(x)^2-
2*x^2-x)*log(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)^2+(exp(2*x)^2+2*exp(x)
)*exp(2*x)+exp(x)^2+x)*log(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)-4*x*exp
(2*x)^2-6*x*exp(x)*exp(2*x)-2*x*exp(x)^2-x)*exp((((x^2-x+1)*log(exp(2*x)^2+
2*exp(x)*exp(2*x)+exp(x)^2+x)/log(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+
x))/(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)/log(exp(2*x)^2+2*exp(x)*exp(2
*x)+exp(x)^2+x)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7557

2.2.6507 Maxima [F(-2)]

Exception generated.

$$\int \frac{80 + 200x + 125x^2 - 48x^3 - 240x^4 - 225x^5 + 72x^7 + 135x^8 - 27x^{11} + e^3(125 - 225x^3 + 135x^6 - 27x^9 - 125x + 225x^4 - 135x^7 + 27x^9)}{(27x^{10} - 135x^7 + 225x^4 - 125x)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((-54*x^11+270*x^8-144*x^7-450*x^5+120*x^4+288*x^3+250*x^2+200*x)
*log(3*x)+(-27*x^9+135*x^6-225*x^3+125)*exp(3)-27*x^11+135*x^8+72*x^7-225*x
^5-240*x^4-48*x^3+125*x^2+200*x+80)/(27*x^10-135*x^7+225*x^4-125*x),x, algo
rithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7704

2.2.6508 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{x-x^3 \log(x)}{\log^2(x)}} \frac{(2 + (-1 - x^2) \log(x) + 3x^2 \log^2(x))}{\log^3(x)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((3*x^2*log(x)^2+(-x^2-1)*log(x)+2)*exp((-x^3*log(x)+x)/log(x)^2)/
log(x)^3,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7742

2.2.6509 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-e+\log(3)}{-20-x+x\log(x)}}(e-\log(3))\log(x)}{400+40x+x^2+(-40x-2x^2)\log(x)+x^2\log^2(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((-log(3)+exp(1))*log(x)*exp((log(3)-exp(1))/(x*log(x)-x-20))/(x^2
*log(x)^2+(-2*x^2-40*x)*log(x)+x^2+40*x+400),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7758

2.2.6510 Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{-1-\frac{1}{\log(\log(x))}}(e^{2+x}-e^{2+x}\log(\log(x))+e^{2+x}x\log^2(\log(x))))}{\log^2(\log(x))} dx$$

= Exception raised: RuntimeError

```
[In] integrate((x*exp(2)*exp(x)*log(log(x))^2-exp(2)*exp(x)*log(log(x))+exp(2)*e
xp(x))/x/log(log(x))^2/exp(log(x)/log(log(x))),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7816

2.2.6511 Maxima [F(-2)]

Exception generated.

$$\int \frac{-4 + 100e^{2/5} + 12x^2 - 2x^3 + \sqrt[5]{e}(-80x + 10x^2) + e^x(-1 + x + 2x^2 - 2x^3 - x^4 + x^5 + e^{4/5}(-625 + 625e^{4/5}x^2 - 500e^{3/5}x^3 - 2x^4 + x^6 + e^{2/5}x^7))}{x^2 + 625e^{4/5}x^2 - 500e^{3/5}x^3 - 2x^4 + x^6 + e^{2/5}x^7}$$

```
[In] integrate((((625*x-625)*exp(1/5)^4+(-500*x^2+500*x)*exp(1/5)^3+(150*x^3-150*x^2-50*x+50)*exp(1/5)^2+(-20*x^4+20*x^3+20*x^2-20*x)*exp(1/5)+x^5-x^4-2*x^3+2*x^2+x-1)*exp(x)+100*exp(1/5)^2+(10*x^2-80*x)*exp(1/5)-2*x^3+12*x^2-4)/(625*x^2*exp(1/5)^4-500*x^3*exp(1/5)^3+(150*x^4-50*x^2)*exp(1/5)^2+(-20*x^5+20*x^3)*exp(1/5)+x^6-2*x^4+x^2),x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8133

2.2.6512 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{e^{2x} + (-x+x^2) \log\left(\frac{1}{13}(65+5x \log(2))\right)}{\log\left(\frac{1}{13}(65+5x \log(2))\right)}} \frac{(-e^{2x} \log(2) + e^{2x}(26 + 2x \log(2)) \log\left(\frac{1}{13}(65 + 5x \log(2))\right)) + (-13 + 26x + (13 + x \log(2)) \log^2\left(\frac{1}{13}(65 + 5x \log(2))\right))}{(13 + x \log(2)) \log^2\left(\frac{1}{13}(65 + 5x \log(2))\right)}$$

= Exception raised: RuntimeError

```
[In] integrate((((2*x^2-x)*log(2)+26*x-13)*log(5/13*x*log(2)+5)^2+(2*x*log(2)+26)*exp(2*x)*log(5/13*x*log(2)+5)-log(2)*exp(2*x))*exp(((x^2-x)*log(5/13*x*log(2)+5)+exp(2*x))/log(5/13*x*log(2)+5))/(x*log(2)+13)/log(5/13*x*log(2)+5)^2,x, algorithm="maxima")
```

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8239

2.2.6513 Maxima [F(-2)]

Exception generated.

$$\int \frac{(600 - 160x - 136x^2 - 16x^3) \log^2(2x) + e^{\frac{x}{(40+8x)\log(2x)}} (-5x - x^2 + 5x \log(2x) + (200 + 80x + 8x^2) \log^2(2x))}{(200 + 80x + 8x^2) \log^2(2x)}$$

= Exception raised: RuntimeError

```
[In] integrate((((8*x^2+80*x+200)*log(2*x)^2+5*x*log(2*x)-x^2-5*x)*exp(x/(8*x+40)
)/log(2*x))+(-16*x^3-136*x^2-160*x+600)*log(2*x)^2)/(8*x^2+80*x+200)/log(2*
x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8325

2.2.6514 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{x^2} x + 5x^2 + e^{\frac{1-x^4}{x^2}} x^2 + \left(5x^2 + 2e^{x^2} x^3 + e^{\frac{1-x^4}{x^2}} (-2 + x^2 - 2x^4)\right) \log(x)}{x^2} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((2*x^3*exp(x^2)+(-2*x^4+x^2-2)*exp((-x^4+1)/x^2)+5*x^2)*log(x)+e
xp(x^2)*x+x^2*exp((-x^4+1)/x^2)+5*x^2)/x^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> Encountered operator mismatch in maxima-t
o-sr translation
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8419

2.2.6515 Maxima [F(-2)]

Exception generated.

$$\int \frac{4e^{\frac{1}{6}(2+3x)}x^2 + e^{\frac{1}{12}(2+3x)}(-6x + x^2 + x^3) + e^{\frac{1}{12}(2+3x)}(8 - 14x - 2x^2)\log(x)}{16 - 16x + 4x^2 + 4e^{\frac{1}{6}(2+3x)}x^2 + e^{\frac{1}{12}(2+3x)}(-16x + 8x^2) + (32 - 16x - 16e^{\frac{1}{12}(2+3x)}x)\log(x) + 16\log^2(x)}$$

= Exception raised: RuntimeError

```
[In] integrate((( -2*x^2-14*x+8)*exp(1/4*x+1/6)*log(x)+4*x^2*exp(1/4*x+1/6)^2+(x^3+x^2-6*x)*exp(1/4*x+1/6))/(16*log(x)^2+(-16*x*exp(1/4*x+1/6)-16*x+32)*log(x)+4*x^2*exp(1/4*x+1/6)^2+(8*x^2-16*x)*exp(1/4*x+1/6)+4*x^2-16*x+16),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8609

2.2.6516 Maxima [F(-2)]

Exception generated.

$$\int \frac{(6x + 12x^2 + 4x^3)\log^2(3x) + e^{\frac{2(-x^2+x^3)}{\log(3x)}}(6x^2 + 2x^3 - 6x^4 - 2x^5 + (-12x^2 + 2x^3 + 20x^4 + 6x^5)\log(3x))}{\log^2(3x)}$$

= Exception raised: RuntimeError

```
[In] integrate((((3*x^2+8*x+3)*log(3*x))^2+(6*x^5+20*x^4+2*x^3-12*x^2)*log(3*x)-2*x^5-6*x^4+2*x^3+6*x^2)*exp((x^3-x^2)/log(3*x))^2+(4*x^3+12*x^2+6*x)*log(3*x)^2)/log(3*x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8617

2.2.6517 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{x^4 \log(-3x+2x^5)}} (-45 + 150x^4 + (-180 + 120x^4) \log(-3x + 2x^5))}{(-3x^5 + 2x^9) \log^2(-3x + 2x^5)} dx$$

= Exception raised: RuntimeError

[In] integrate(((120*x^4-180)*log(2*x^5-3*x)+150*x^4-45)/(2*x^9-3*x^5)/log(2*x^5-3*x)^2/exp(5/x^4/log(2*x^5-3*x)),x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8620

2.2.6518 Maxima [F(-2)]

Exception generated.

$$\int \frac{-4 \log(5) \log^2\left(\frac{16}{x^2}\right) + e^{\frac{x}{\log\left(\frac{16}{x^2}\right)}} (8x - 8x^2 + (4x - 4x^2) \log\left(\frac{16}{x^2}\right) - 4 \log^2\left(\frac{16}{x^2}\right))}{3x^2 \log^2\left(\frac{16}{x^2}\right)} dx$$

= Exception raised: RuntimeError

[In] integrate(1/3*((-4*log(16/x^2)^2+(-4*x^2+4*x)*log(16/x^2)-8*x^2+8*x)*exp(x/log(16/x^2))-4*log(5)*log(16/x^2)^2)/x^2/log(16/x^2)^2,x, algorithm="maxima")

[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8800

2.2.6519 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x^2+x^2}{x^3 \log(-2+e^{3/2}) \log(4+2x)}} (-e^x x - x^3 + (-2x^2 - x^3 + e^x(-6 - x + x^2)) \log(4 + 2x))}{(2x^4 + x^5) \log(-2 + e^{3/2}) \log^2(4 + 2x)} dx = \text{Exception raised:}$$

```
[In] integrate((((x^2-x-6)*exp(x)-x^3-2*x^2)*log(4+2*x)-exp(x)*x-x^3)*exp((x^2+exp(x))/x^3/log(4+2*x)/log(exp(3/2)-2))/(x^5+2*x^4)/log(4+2*x)^2/log(exp(3/2)-2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8821

2.2.6520 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{-400x^5 + (2000x^4 + 400x^5) \log(x)}} (-5 + 4x + (-20 - 5x) \log(x))}{200x^7 + (-2000x^6 - 400x^7) \log(x) + (5000x^5 + 2000x^6 + 200x^7) \log^2(x)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((((-5*x-20)*log(x)+4*x-5)/((200*x^7+2000*x^6+5000*x^5)*log(x)^2+(-400*x^7-2000*x^6)*log(x)+200*x^7)/exp(-1/((400*x^5+2000*x^4)*log(x)-400*x^5))),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8869

2.2.6521 Maxima [F(-2)]

Exception generated.

$$\int \frac{4e^5 x^2 \log^2(x) + e^{\frac{3}{e^5 x^2 \log(x)}} \log(2 + e^2) (6 + 12 \log(x) - 4e^5 x^2 \log^2(x)) + e^{\frac{6}{e^5 x^2 \log(x)}} \log^2(2 + e^2) (-3 - 6 \log(x))}{2e^5 x \log^2(2 + e^2) \log^2(x)}$$

= Exception raised: RuntimeError

```
[In] integrate(1/2*((x^2*exp(5)*log(x)^2-6*log(x)-3)*log(exp(2)+2)^2*exp(3/x^2/exp(5)/log(x))^2+(-4*x^2*exp(5)*log(x)^2+12*log(x)+6)*log(exp(2)+2)*exp(3/x^2/exp(5)/log(x))+4*x^2*exp(5)*log(x)^2)/x/exp(5)/log(x)^2/log(exp(2)+2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8893

2.2.6522 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{2+\log(-18-2x+\log(4)+3\log(25))}} (-36 - 2x + 2\log(4) + 6\log(25) + (-18 - 2x + \log(4) + 3\log(25)))}{-72 - 8x + 4\log(4) + 12\log(25) + (-72 - 8x + 4\log(4) + 12\log(25)) \log(-18 - 2x + \log(4) + 3\log(25))}$$

= Exception raised: RuntimeError

```
[In] integrate(((6*log(5)+2*log(2)-2*x-18)*log(6*log(5)+2*log(2)-2*x-18)+12*log(5)+4*log(2)-2*x-36)*exp(x/(log(6*log(5)+2*log(2)-2*x-18)+2))/((6*log(5)+2*log(2)-2*x-18)*log(6*log(5)+2*log(2)-2*x-18)^2+(24*log(5)+8*log(2)-8*x-72)*log(6*log(5)+2*log(2)-2*x-18)+24*log(5)+8*log(2)-8*x-72),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8900

2.2.6523 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2x}{\log(x)}} (-2x^2 + 2x^2 \log(x) + 2x \log^2(x) + e^{-30+2x-2x \log(2x)} (-2 + 2 \log(x) - 2 \log^2(x) \log(2x)) + e^{-15+x-2x \log(2x)})}{5 \log^2(x)}$$

= Exception raised: RuntimeError

```
[In] integrate(1/5*((-2*log(x)^2*log(2*x)+2*log(x)-2)*exp(-x*log(2*x)+x-15)^2+(2*x*log(x)^2*log(2*x)-2*log(x)^2-4*x*log(x)+4*x)*exp(-x*log(2*x)+x-15)+2*x*log(x)^2+2*x^2*log(x)-2*x^2)*exp(x/log(x))^2/log(x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9001

2.2.6524 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3+e^{10}(-x^2-x^3)}{-e^{10}x^2+e^{10}x^2 \log\left(\frac{x}{5 \log(x)}\right)}} \left(3 + e^{10}(-x^2 - x^3) + (3 + e^{10}(x^2 + 2x^3)) \log(x) + (-6 - e^{10}x^3) \log(x) \log\left(\frac{x}{5 \log(x)}\right)\right)}{e^{10}x^3 \log(x) - 2e^{10}x^3 \log(x) \log\left(\frac{x}{5 \log(x)}\right) + e^{10}x^3 \log(x) \log^2\left(\frac{x}{5 \log(x)}\right)}$$

= Exception raised: RuntimeError

```
[In] integrate(((x^3*exp(5)^2-6)*log(x)*log(1/5*x/log(x)))+((2*x^3+x^2)*exp(5)^2+3)*log(x)+(-x^3-x^2)*exp(5)^2+3)*exp(((x^3-x^2)*exp(5)^2+3)/(x^2*exp(5)^2*log(1/5*x/log(x))-x^2*exp(5)^2))/(x^3*exp(5)^2*log(x)*log(1/5*x/log(x))^2-2*x^3*exp(5)^2*log(x)*log(1/5*x/log(x))+x^3*exp(5)^2*log(x)),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9011

2.2.6525 Maxima [F(-2)]

Exception generated.

$$\int \frac{240 - 320x^4 + e^{2/3}(-5x^2 + 20x^6)}{-256x + 128x^5 - 16x^9 + e^{2/3}(16x^3 - 8x^7 + x^{11}) + (-128x + 32x^5 + e^{2/3}(8x^3 - 2x^7)) \log\left(-\frac{x^3}{-16+e^{2/3}x}\right)} dx$$

```
[In] integrate(((20*x^6-5*x^2)*exp(2/3)-320*x^4+240)/((x^3*exp(2/3)-16*x)*log(-x^3/(x^2*exp(2/3)-16))^2+((-2*x^7+8*x^3)*exp(2/3)+32*x^5-128*x)*log(-x^3/(x^2*exp(2/3)-16)))+(x^11-8*x^7+16*x^3)*exp(2/3)-16*x^9+128*x^5-256*x),x, algorithmm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9132

2.2.6526 Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{-9+2x \log(3+e^x+4x^2)}{x \log(3+e^x+4x^2)}} \frac{(9e^x x + 72x^2 + (27 + 9e^x + 36x^2) \log(3 + e^x + 4x^2))}{(3x^2 + e^x x^2 + 4x^4) \log^2(3 + e^x + 4x^2)} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((9*exp(x)+36*x^2+27)*log(exp(x)+4*x^2+3)+9*exp(x)*x+72*x^2)*exp((2*x*log(exp(x)+4*x^2+3)-9)/x/log(exp(x)+4*x^2+3))/(exp(x)*x^2+4*x^4+3*x^2)/log(exp(x)+4*x^2+3)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9332

2.2.6527 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-2x} \left(e^{2x} (-2x + x^2) \log^2(2-x) + e^{\frac{9+3x}{\log(2-x)}} (-18 - 6x + (-12 + 6x) \log(2-x) + (8 - 4x) \log^2(2-x) \right)}{(-4 + 2x) \log^2(2-x)}$$

= Exception raised: RuntimeError

```
[In] integrate(((((-4*x+8)*log(2-x)^2+(6*x-12)*log(2-x)-6*x-18)*exp(1/2*(3*x+9)/log(2-x))^2+((2*x^2-6*x+4)*exp(x)*log(2-x)^2+(-3*x^2+6*x)*exp(x)*log(2-x)+(3*x^2+9*x)*exp(x))*exp(1/2*(3*x+9)/log(2-x))+(x^2-2*x)*exp(x)^2*log(2-x)^2)/(2*x-4)/exp(x)^2/log(2-x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9345

2.2.6528 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{9+123x+30x^2}{10 \log\left(\frac{2+x^2}{x}\right)}} \left(18 + 246x + 51x^2 - 123x^3 - 30x^4 + (246x + 120x^2 + 123x^3 + 60x^4) \log\left(\frac{2+x^2}{x}\right) + (20 + 10x^2) \log^2\left(\frac{2+x^2}{x}\right) \right)}{(20 + 10x^2) \log^2\left(\frac{2+x^2}{x}\right)}$$

= Exception raised: RuntimeError

```
[In] integrate((((10*x^2+20)*log((x^2+2)/x)^2+(60*x^4+123*x^3+120*x^2+246*x)*log((x^2+2)/x)-30*x^4-123*x^3+51*x^2+246*x+18)*exp(1/10*(30*x^2+123*x+9)/log((x^2+2)/x))/(10*x^2+20)/log((x^2+2)/x)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9541

2.2.6529 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-x+\log(x)}{(5+e^x)\log(\log(25x^2))}} (10x \log(2) + 2e^x x \log(2) + (-10 \log(2) - 2e^x \log(2)) \log(x) + ((5-5x) \log(2) + e^x (10 \log(2) + \log(25x^2) \log(\log(25x^2))))}{(25x + 10e^x x + e^{2x} x) \log(25x^2) \log^2(\log(25x^2))} dx$$

= Exception raised: RuntimeError

```
[In] integrate((( -x*log(2)*exp(x)*log(x)+(x^2-x+1)*log(2)*exp(x)+(-5*x+5)*log(2)
)*log(25*x^2)*log(log(25*x^2))+(-2*exp(x)*log(2)-10*log(2))*log(x)+2*x*log(
2)*exp(x)+10*x*log(2))*exp((log(x)-x)/(exp(x)+5)/log(log(25*x^2)))/(x*exp(x)
)^2+10*exp(x)*x+25*x)/log(25*x^2)/log(log(25*x^2))^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9566

2.2.6530 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{16x-81x^2-24e^{\frac{1}{5}(5x+\log(5))}x^2+9e^{\frac{2}{5}(5x+\log(5))}x^3}{16-24e^{\frac{1}{5}(5x+\log(5))}x+9e^{\frac{2}{5}(5x+\log(5))}x^2}} (-64 + 648x - 108e^{\frac{2}{5}(5x+\log(5))}x^2 + 27e^{\frac{3}{5}(5x+\log(5))}x^3 + e^{\frac{1}{5}(5x+\log(5))})}{-64 + 144e^{\frac{1}{5}(5x+\log(5))}x - 108e^{\frac{2}{5}(5x+\log(5))}x^2 + 27e^{\frac{3}{5}(5x+\log(5))}x^3} dx$$

= Exception raised: RuntimeError

```
[In] integrate((27*x^3*exp(1/5*log(5)+x)^3-108*x^2*exp(1/5*log(5)+x)^2+(486*x^3+
144*x)*exp(1/5*log(5)+x)+648*x-64)*exp((9*x^3*exp(1/5*log(5)+x)^2-24*x^2*exp
(1/5*log(5)+x)-81*x^2+16*x)/(9*x^2*exp(1/5*log(5)+x)^2-24*x*exp(1/5*log(5)
+x)+16))/(27*x^3*exp(1/5*log(5)+x)^3-108*x^2*exp(1/5*log(5)+x)^2+144*x*exp(
1/5*log(5)+x)-64),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9667

2.2.6531 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{5 - \frac{3x - \frac{(-15+3x)\log(3+\log(x))}{e^5}}{\log(3+\log(x))}} \left(-3 + (9 + 3\log(x))\log(3 + \log(x)) - \frac{(9+3\log(x))\log^2(3+\log(x))}{e^5} \right)}{(3 + \log(x))\log^2(3 + \log(x))} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((3*log(x)+9)*log(3+log(x))*exp(log(-log(3+log(x))))-5)+(3*log(x)+
9)*log(3+log(x))-3)*exp(((3*x-15)*exp(log(-log(3+log(x))))-5)+3*x)/exp(log(-
log(3+log(x)))-5))/(3+log(x))/log(3+log(x))/exp(log(-log(3+log(x)))-5),x, a
lgorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9697

2.2.6532 Maxima [F(-2)]

Exception generated.

$$\int \frac{-50x - 20e^4x - 2e^8x + (-20x - 4e^4x)\log(x) - 2x\log^2(x) + e^{\frac{x^3+x^2\log(4)}{5+e^4+\log(x)}} (25 + e^8 + 14x^3 + e^4(10 + 3x^3))}{25 + 10e^4 + e^8 + (10 + 2e^4)\log(x) +}$$

= Exception raised: RuntimeError

```
[In] integrate(((log(x)^2+(4*x^2*log(2)+2*exp(4)+3*x^3+10)*log(x)+2*(2*x^2*exp(4)
)+9*x^2)*log(2)+exp(4)^2+(3*x^3+10)*exp(4)+14*x^3+25)*exp((2*x^2*log(2)+x^3
))/(log(x)+5+exp(4))-2*x*log(x)^2+(-4*x*exp(4)-20*x)*log(x)-2*x*exp(4)^2-20
*x*exp(4)-50*x)/(log(x)^2+(2*exp(4)+10)*log(x)+exp(4)^2+10*exp(4)+25),x, al
gorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9749

2.2.6533 Maxima [F(-2)]

Exception generated.

$$\int \frac{(e^{10} - e^5 x) \log^2(e^{10} - 2e^5 x + x^2) + e^{\frac{4x^3}{e^5 \log(e^{10} - 2e^5 x + x^2)}} (8x^3 + (12e^5 x^2 - 12x^3) \log(e^{10} - 2e^5 x + x^2))}{(e^{10} - e^5 x) \log^2(e^{10} - 2e^5 x + x^2)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((((12*x^2*exp(5)-12*x^3)*log(exp(5)^2-2*x*exp(5)+x^2)+8*x^3)*exp(4*x^3/exp(5)/log(exp(5)^2-2*x*exp(5)+x^2))+(exp(5)^2-x*exp(5))*log(exp(5)^2-2*x*exp(5)+x^2)^2)/(exp(5)^2-x*exp(5))/log(exp(5)^2-2*x*exp(5)+x^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9775

2.2.6534 Maxima [F(-2)]

Exception generated.

$$\int \frac{-e^{2-2x} x^2 + e^{1-x+\frac{1}{4}(4+\log(4))} (-5 + 5x - 2x^2) + e^{\frac{1}{2}(4+\log(4))} (-5 - x^2)}{e^{2-2x} x^2 + e^{\frac{1}{2}(4+\log(4))} x^2 + 2e^{1-x+\frac{1}{4}(4+\log(4))} x^2} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((x^2-5)*exp(1+1/2*log(2))^2+(-2*x^2+5*x-5)*exp(1-x)*exp(1+1/2*log(2))-x^2*exp(1-x)^2)/(x^2*exp(1+1/2*log(2))^2+2*x^2*exp(1-x)*exp(1+1/2*log(2))+x^2*exp(1-x)^2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9911

2.2.6535 Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3x^2+5x^3+2x^4}{(4+8x)\log(x^2)}} (-6x^2 - 22x^3 - 24x^4 - 8x^5 + (6x^2 + 21x^3 + 28x^4 + 12x^5) \log(x^2) + (-8 - 32x - 32x^2) \log^2(x^2))}{(4x^3 + 16x^4 + 16x^5) \log^2(x^2)} dx$$

= Exception raised: RuntimeError

```
[In] integrate((( -32*x^2-32*x-8)*log(x^2)^2+(12*x^5+28*x^4+21*x^3+6*x^2)*log(x^2)
)-8*x^5-24*x^4-22*x^3-6*x^2)*exp((2*x^4+5*x^3+3*x^2)/(8*x+4)/log(x^2))/(16*
x^5+16*x^4+4*x^3)/log(x^2)^2,x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: In function CAR, the value of t
he first argument is 0 which is not of the expected type LIST
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9947

2.2.6536 Maxima [F(-2)]

Exception generated.

$$\int \frac{10x + 2x^2 + 2\sqrt[3]{e}x^2 + 4e^{2/3}x^2 + (-10x - x^2 + \sqrt[3]{e}(-20x - 4x^2)) \log(x^2) + (25 + 10x + x^2) \log^2(x^2)}{4e^{2/3}x^2 + \sqrt[3]{e}(-20x - 4x^2) \log(x^2) + (25 + 10x + x^2) \log^2(x^2)} dx$$

```
[In] integrate(((x^2+10*x+25)*log(x^2)^2+((-4*x^2-20*x)*exp(1/3)-x^2-10*x)*log(x
^2)+4*x^2*exp(1/3)^2+2*x^2*exp(1/3)+2*x^2+10*x)/((x^2+10*x+25)*log(x^2)^2+(
-4*x^2-20*x)*exp(1/3)*log(x^2)+4*x^2*exp(1/3)^2),x, algorithm="maxima")
```

```
[Out] Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is und
efined.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9962

2.2.6537 Maxima [F(-2)]

Exception generated.

$$\int \sin^{99}(x) \sin(101x) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sin(101*x)*sin(x)^99,x, algorithm="maxima")`

[Out] Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name 11_MIT/MIT_bee_problems.txt

Test file number 211

Integral number in file 46

2.2.6538 Maxima [F(-2)]

Exception generated.

$$\int x(a + bx^2)^{-m} dx = \text{Exception raised: ValueError}$$

[In] `integrate(x/((b*x^2+a)^m),x, algorithm="maxima")`

[Out] Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-m>0)', see 'assume?' for more details)Is

input file name 12_table_of_integrals/table_of_integrals_problems.txt

Test file number 212

Integral number in file 61

2.3 Giac Exceptions

Percentage of integrals which generated an exception is 3.887 %

2.3.1 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1+x}}}{\sqrt{1+x}(1+x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x+(1+x)^(1/2))^(1/2)/(x^2+1)/(1+x)^(1/2),x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone
input file name 0_Independent_test_suites/Bondarenko_Problems.txt
Test file number 2
Integral number in file 13
```

2.3.2 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1+x}}}{1+x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone
input file name 0_Independent_test_suites/Bondarenko_Problems.txt
Test file number 2
Integral number in file 14
```

2.3.3 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\sqrt{2} + \sqrt{x} + \sqrt{2 + 2\sqrt{2}\sqrt{x} + 2x}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2^(1/2)+x^(1/2)+(2+2*x+2*2^(1/2)*x^(1/2))^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming [sageVAR
x]=[79]sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Er
ror: B
```

input file name 0_Independent_test_suites/Bondarenko_Problems.txt

Test file number 2

Integral number in file 16

2.3.4 Giac [F(-2)]

Exception generated.

$$\int \arccos\left(\sqrt{\frac{x}{1+x}}\right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arccos((x/(1+x))^(1/2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 86

2.3.5 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^2(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2)^(1/2)/x^2/(b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 857

2.3.6 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^3(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2)^(1/2)/x^3/(b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 858

2.3.7 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^4(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2)^(1/2)/x^4/(b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 859

2.3.8 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^4(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2)^(3/2)/x^4/(b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 865

2.3.9 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^5(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2)^(3/2)/x^5/(b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 866

2.3.10 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^6(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2)^(3/2)/x^6/(b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 867

2.3.11 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^7(a+bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(3/2)/x^7/(b*x+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 868

2.3.12 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2}}{x^6(a+bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(5/2)/x^6/(b*x+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 875

2.3.13 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2}}{x^7(a+bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(5/2)/x^7/(b*x+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 876

2.3.14 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 881

2.3.15 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 882

2.3.16 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 883

2.3.17 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^3/(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 884

2.3.18 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 889

2.3.19 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 890

2.3.20 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 891

2.3.21 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x (cx^2)^{3/2} (a + bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 892

2.3.22 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^2(a + bx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(1/2)/x^2/(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 898

2.3.23 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^3(a+bx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(1/2)/x^3/(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 899

2.3.24 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^4(a+bx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(1/2)/x^4/(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 900

2.3.25 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^4(a+bx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(3/2)/x^4/(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 906

2.3.26 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^5(a+bx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(3/2)/x^5/(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 907

2.3.27 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^6(a+bx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2)^(3/2)/x^6/(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 908

2.3.28 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{cx^2}(a+bx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 914

2.3.29 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 915

2.3.30 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^2/(b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 916

2.3.31 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(cx^2)^{3/2} (a + bx)^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 920

2.3.32 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(cx^2)^{3/2} (a + bx)^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 921

2.3.33 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(cx^2)^{3/2} (a+bx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 922

2.3.34 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a+bx)^n}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*(b*x+a)^n/(c*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,3,1,0,0]} / %%{1,[0,0,0,1,1]} Error: Bad Argument
Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 946

2.3.35 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^n}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(b*x+a)^n/(c*x^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 947

2.3.36 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^n}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(b*x+a)^n/(c*x^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 948

2.3.37 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^n}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(b*x+a)^n/(c*x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Val
ue
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 949

2.3.38 Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a+bx)^n}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^6*(b*x+a)^n/(c*x^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,3,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument
Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 953

2.3.39 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx)^n}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(b*x+a)^n/(c*x^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument
Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 954

2.3.40 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a+bx)^n}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(b*x+a)^n/(c*x^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument
Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 955

2.3.41 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^n}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(b*x+a)^n/(c*x^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Val
ue
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 956

2.3.42 Giac [F(-2)]

Exception generated.

$$\int \frac{x^8(a+bx)^n}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^8*(b*x+a)^n/(c*x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,3,1,0,0,0]%%} / %%{1,[0,0,0,1,1,2]%%} Error: Bad Argu
ment V
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 961

2.3.43 Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a+bx)^n}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^7*(b*x+a)^n/(c*x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,2,1,0,0,0]%%} / %%{1,[0,0,0,1,1,2]%%} Error: Bad Argu
ment V
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 962

2.3.44 Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a+bx)^n}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^6*(b*x+a)^n/(c*x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,1,0,0,0]%%} / %%{1,[0,0,0,1,1,2]%%} Error: Bad Argu
ment V
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 963

2.3.45 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx)^n}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(b*x+a)^n/(c*x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0,0,0]%%} / %%{1,[0,0,1,1,2]%%} Error: Bad Argument
Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 964

2.3.46 Giac [F(-2)]

Exception generated.

$$\int (dx)^m (cx^2)^{5/2} (a+bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x)^m*(c*x^2)^(5/2)*(b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 969

2.3.47 Giac [F(-2)]

Exception generated.

$$\int (dx)^m (cx^2)^{3/2} (a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x)^m*(c*x^2)^(3/2)*(b*x+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 970

2.3.48 Giac [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{cx^2} (a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x)^m*(c*x^2)^(1/2)*(b*x+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 971

2.3.49 Giac [F(-2)]

Exception generated.

$$\int \frac{(dx)^m (a + bx)}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x)^m*(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^-m-c+d_x^-n.txt

Test file number 13

Integral number in file 972

2.3.50 Giac [F(-2)]

Exception generated.

$$\int (dx)^m (cx^2)^{5/2} (a + bx)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x)^m*(c*x^2)^(5/2)*(b*x+a)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^-m-c+d_x^-n.txt

Test file number 13

Integral number in file 975

2.3.51 Giac [F(-2)]

Exception generated.

$$\int (dx)^m (cx^2)^{3/2} (a+bx)^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x)^m*(c*x^2)^(3/2)*(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 976

2.3.52 Giac [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{cx^2} (a+bx)^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x)^m*(c*x^2)^(1/2)*(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 977

2.3.53 Giac [F(-2)]

Exception generated.

$$\int \frac{(dx)^m (a + bx)^2}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x)^m*(b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^-m-c+d_x^-n.txt

Test file number 13

Integral number in file 978

2.3.54 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{7/4}}{\sqrt[4]{a + iax}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a-I*a*x)^(7/4)/(a+I*a*x)^(1/4),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(1/4*16*i*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4))^
10/(-(sa

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^-m-c+d_x^-n.txt

Test file number 13

Integral number in file 1171

2.3.55 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{3/4}}{\sqrt[4]{a + iax}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a-I*a*x)^(3/4)/(a+I*a*x)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(4*i*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4))^6/(-(
(sageVARa
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1172

2.3.56 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a - iax}\sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1173

2.3.57 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{5/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(1/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1174

2.3.58 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(1/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1175

2.3.59 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1176

2.3.60 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{17/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a-I*a*x)^(17/4)/(a+I*a*x)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1177

2.3.61 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{a-iax}}{\sqrt[4]{a+iax}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a-I*a*x)^(1/4)/(a+I*a*x)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(4*i*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4))^4/(-(
(sageVARa
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1178

2.3.62 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{3/4}\sqrt[4]{a+iax}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1179

2.3.63 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(1/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1180

2.3.64 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(1/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1181

2.3.65 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{15/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(15/4)/(a+I*a*x)^(1/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1182

2.3.66 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{19/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(19/4)/(a+I*a*x)^(1/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1183

2.3.67 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{3/4}}{(a + iax)^{3/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a-I*a*x)^(3/4)/(a+I*a*x)^(3/4),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
 Argument Typeintegrate(4*i*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4))^6/((-
 ((sageVAR

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1184

2.3.68 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a - iax}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(3/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1185

2.3.69 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{5/4}(a+iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1186

2.3.70 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{9/4}(a+iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1187

2.3.71 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(3/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1188

2.3.72 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{5/4}}{(a + iax)^{3/4}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a-I*a*x)^(5/4)/(a+I*a*x)^(3/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(1/4*16*i*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4))^
8/((-((sa
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1189

2.3.73 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{a-iax}}{(a+iax)^{3/4}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a-I*a*x)^(1/4)/(a+I*a*x)^(3/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(4*i*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4))^4/((-
((sageVAR
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1190

2.3.74 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{3/4}(a+iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(3/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1191

2.3.75 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1192

2.3.76 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1193

2.3.77 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{7/4}}{(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a-I*a*x)^(7/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
 Argument Typeintegrate(-(-i)/4*16*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4)
)^10/(-(

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1194

2.3.78 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a - iax}(a + iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1196

2.3.79 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{5/4}(a+iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(7/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1197

2.3.80 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{9/4}(a+iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(7/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1198

2.3.81 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{9/4}}{(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a-I*a*x)^(9/4)/(a+I*a*x)^(7/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(-(-i)/4*16*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4)
)^12/(-(
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1199

2.3.82 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{5/4}}{(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a-I*a*x)^(5/4)/(a+I*a*x)^(7/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(-(-i)/4*16*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4)
)^8/(-(s
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1200

2.3.83 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{3/4}(a+iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1202

2.3.84 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{7/4}(a+iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1203

2.3.85 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(7/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1204

2.3.86 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{15/4}(a + iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(15/4)/(a+I*a*x)^(7/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1205

2.3.87 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{7/4}}{(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a-I*a*x)^(7/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
 Argument Typeintegrate(-(-i)/4*16*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4)
)^10/(-((

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1206

2.3.88 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a - iax}(a + iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1208

2.3.89 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{5/4}(a+iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(5/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1209

2.3.90 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{9/4}(a+iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(5/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1210

2.3.91 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(5/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1211

2.3.92 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{5/4}}{(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a-I*a*x)^(5/4)/(a+I*a*x)^(5/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(-(-i)/4*16*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4)
)^8/(-(s
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1212

2.3.93 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{3/4}(a+iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1214

2.3.94 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{7/4}(a+iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1215

2.3.95 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(5/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1216

2.3.96 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{7/4}}{(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a-I*a*x)^(7/4)/(a+I*a*x)^(9/4),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(-(-i)/4*16*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4)
)^10/(((s

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1217

2.3.97 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a-iax}(a+iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(9/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1219

2.3.98 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{5/4}(a+iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(9/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1220

2.3.99 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{9/4}(a+iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1221

2.3.100 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{13/4}(a+iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1222

2.3.101 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{17/4}(a + iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a-I*a*x)^(17/4)/(a+I*a*x)^(9/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1223

2.3.102 Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{5/4}}{(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a-I*a*x)^(5/4)/(a+I*a*x)^(9/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:The choice was done assuming 0=[0,0]ext_reduce Error: Bad
Argument Typeintegrate(-(-i)/4*16*((sageVARa+(-i)*sageVARa*sageVARx)^(1/4)
)^8/(((sa
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1224

2.3.103 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{3/4}(a+iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(9/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1226

2.3.104 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{7/4}(a+iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(9/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1227

2.3.105 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(9/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1228

2.3.106 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{c + dx}}{(a + bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(1/4)/(b*x+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
 ding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
 a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1632

2.3.107 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{c+dx}}{(a+bx)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x+c)^(1/4)/(b*x+a)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,2,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Val
ue
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1633

2.3.108 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{c+dx}}{(a+bx)^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x+c)^(1/4)/(b*x+a)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,4,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Val
ue
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1634

2.3.109 Giac [F(-2)]

Exception generated.

$$\int (a + bx)^{3/4}(c + dx)^{5/4} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((b*x+a)^(3/4)*(d*x+c)^(5/4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to convert to real sageVARb Error: Bad Argument Va
lueUnable to convert to real sageVARb Error: Bad Argument ValueRecursive as
sumption
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-
a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1678

2.3.110 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m}{\left(1 - \frac{\sqrt{ax}}{\sqrt{-b}}\right)^2 \left(1 + \frac{\sqrt{ax}}{\sqrt{-b}}\right)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m/(1-x*a^(1/2)/(-b)^(1/2))^2/(1+x*a^(1/2)/(-b)^(1/2))^2,x, algo
rithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{1, [1]%%}, [2]%%}+%%{%%{%%{[-2,0]:[1,0,%%{1, [1]%%
}}]%%},
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 386

2.3.111 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 551

2.3.112 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(3/2)*(b*x+a)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 560

2.3.113 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(5/2)*(b*x+a)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 569

2.3.114 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x\sqrt{c+dx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x+a)^(1/2)/x/(d*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 580

2.3.115 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}\sqrt{c+dx}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 601

2.3.116 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(c+dx)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 610

2.3.117 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
 a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 619

2.3.118 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x\sqrt{c + dx}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*x+a)^(3/2)/x/(d*x+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
 a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 629

2.3.119 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2} \sqrt{c+dx}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 650

2.3.120 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2} (c+dx)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 659

2.3.121 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 667

2.3.122 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x\sqrt{c + dx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x+a)^(5/2)/x/(d*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 677

2.3.123 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x\sqrt{a+bx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(1/2)/x/(b*x+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 702

2.3.124 Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{x\sqrt{a+bx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(3/2)/x/(b*x+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 709

2.3.125 Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x\sqrt{a+bx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(5/2)/x/(b*x+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 717

2.3.126 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-a-bx}\sqrt{1+a+bx}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(-b*x-a+1)^(1/2)/(b*x+a+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 758

2.3.127 Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{x(a+bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(3/2)/x/(b*x+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 763

2.3.128 Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x(a+bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(5/2)/x/(b*x+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 771

2.3.129 Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x^2(a+bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(5/2)/x^2/(b*x+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 772

2.3.130 Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{x(a+bx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(5/2)/x/(b*x+a)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 798

2.3.131 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{2-3x}\sqrt{x}\sqrt{d+ex}} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(1/(2-3*x)^(1/2)/x^(1/2)/(e*x+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 873

2.3.132 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{\sqrt{2-3x}\sqrt{x}} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((e*x+d)^(1/2)/(2-3*x)^(1/2)/x^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 874

2.3.133 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{\sqrt{c+dx}(e+fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x+a)^(1/2)/(f*x+e)/(d*x+c)^(1/2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
 a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2299

2.3.134 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{\sqrt{a+bx}(e+fx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)^(1/2)/(f*x+e)/(b*x+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
 a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2300

2.3.135 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}\sqrt{c+\frac{b(-1+c)x}{a}}\sqrt{e+\frac{b(-1+e)x}{a}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(b*x+a)^(1/2)/(c+b*(-1+c)*x/a)^(1/2)/(e+b*(-1+e)*x/a)^(1/2),x,
 algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Recursive assumption sageVARx>=(-sageVARa) ignoresym2pol

y/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 2637

2.3.136 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx} \sqrt{c + \frac{b(-1+c)x}{a}} \sqrt{e + \frac{b(-1+e)x}{a}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((B*x+A)/(b*x+a)^(1/2)/(c+b*(-1+c)*x/a)^(1/2)/(e+b*(-1+e)*x/a)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Recursive assumption sageVARx>=(-sageVARa) ignoredsym2pol
y/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 33

2.3.137 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx} \sqrt{1 + dx} (e + fx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 17

Integral number in file 5

2.3.138 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^2/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 17

Integral number in file 6

2.3.139 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^3/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 17

Integral number in file 7

2.3.140 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-
x-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 17

Integral number in file 12

2.3.141 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((C*x^2+B*x+A)/(f*x+e)^2/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-
x-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 17

Integral number in file 13

2.3.142 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((C*x^2+B*x+A)/(f*x+e)^3/(-d*x+1)^(1/2)/(d*x+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 14

2.3.143 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((C*x^2+B*x+A)/(f*x+e)/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2),x, algorith
hm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 24

2.3.144 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((C*x^2+B*x+A)/(f*x+e)/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 31

2.3.145 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx}\sqrt{e + fx}(A + Bx + Cx^2)}{a + bx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)*(f*x+e)^(1/2)/(b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 44

2.3.146 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)\sqrt{e+fx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((C*x^2+B*x+A)*(d*x+c)^(1/2)/(b*x+a)/(f*x+e)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error:
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-
x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 50

2.3.147 Giac [F(-2)]

Exception generated.

$$\int \frac{A+Bx+Cx^2}{(a+bx)\sqrt{c+dx}\sqrt{e+fx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error:
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.6_P-
x-a+b_x-^m-c+d_x-^n-e+f_x-^p.txt

Test file number 17

Integral number in file 57

2.3.148 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx)^{3/2} \sqrt{c + dx} \sqrt{e + fx} \sqrt{g + hx}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((C*x^2+A)/(b*x+a)^(3/2)/(d*x+c)^(1/2)/(f*x+e)^(1/2)/(h*x+g)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.7_P-
x-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p-g+h_x-^q.txt

Test file number 18

Integral number in file 34

2.3.149 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{c + dx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x^2+a)^(3/2)/(d*x^2+c),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.3-
a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 20

Integral number in file 57

2.3.150 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{c + dx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*x^2+a)^(5/2)/(d*x^2+c),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.3-
a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 20

Integral number in file 66

2.3.151 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 + \frac{2cx^2}{b - \sqrt{b^2 - 4ac}}}}{\sqrt{1 - \frac{2cx^2}{b + \sqrt{b^2 - 4ac}}}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(((1+2*c*x^2/(b-(-4*a*c+b^2)^(1/2)))^(1/2)/(1-2*c*x^2/(b+(-4*a*c+b^2)^(1/2))))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.3-
a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 20

Integral number in file 297

2.3.152 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - \frac{2cx^2}{b - \sqrt{b^2 - 4ac}}}}{\sqrt{1 - \frac{2cx^2}{b + \sqrt{b^2 - 4ac}}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-2*c*x^2/(b-(-4*a*c+b^2)^(1/2)))^(1/2)/(1-2*c*x^2/(b+(-4*a*c+b^2)^(1/2)))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.3-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 20

Integral number in file 298

2.3.153 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 + \frac{2cx^2}{b - \sqrt{b^2 - 4ac}}}}{\sqrt{1 + \frac{2cx^2}{b + \sqrt{b^2 - 4ac}}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+2*c*x^2/(b-(-4*a*c+b^2)^(1/2)))^(1/2)/(1+2*c*x^2/(b+(-4*a*c+b^2)^(1/2)))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.3-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 20

Integral number in file 299

2.3.154 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - \frac{2cx^2}{b - \sqrt{b^2 - 4ac}}}}{\sqrt{1 + \frac{2cx^2}{b + \sqrt{b^2 - 4ac}}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-2*c*x^2/(b-(-4*a*c+b^2)^(1/2)))^(1/2)/(1+2*c*x^2/(b+(-4*a*c+b^2)^(1/2)))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.3-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 20

Integral number in file 300

2.3.155 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{c + dx^2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 676

2.3.156 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{c + dx^2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 678

2.3.157 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 (c + dx^2)^{3/2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 685

2.3.158 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx^2)^{3/2}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 687

2.3.159 Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx^2)^{3/2}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 689

2.3.160 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(c+dx^2)^{5/2}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*(d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
 e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 694

2.3.161 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx^2)^{5/2}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
 e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 696

2.3.162 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{5/2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
 e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 698

2.3.163 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{5/2}}{x^2(a + bx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x^2+c)^(5/2)/x^2/(b*x^2+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
 e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 700

2.3.164 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{5/2}}{x^4(a + bx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x^2+c)^(5/2)/x^4/(b*x^2+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 702

2.3.165 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx^2)\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 708

2.3.166 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^2)\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
 e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 709

2.3.167 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx^2)(c + dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
 e_x-^m-a+b_x^2-^p-c+d_x^2-^q.txt

Test file number 21

Integral number in file 713

2.3.168 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{5/2}}{x^2 (a + bx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x^2+c)^(5/2)/x^2/(b*x^2+a)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 755

2.3.169 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}}{x\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*x^2+a)^(1/2)/x/(d*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 937

2.3.170 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x^2+a)^(3/2)/x/(d*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 947

2.3.171 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x^2+a)^(5/2)/x/(d*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.4-
e_x^m-a+b_x^2-p-c+d_x^2-q.txt

Test file number 21

Integral number in file 957

2.3.172 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)\sqrt{c + dx^2}}{e + fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x^2+a)*(d*x^2+c)^(1/2)/(f*x^2+e),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-
a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 57

2.3.173 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3}{(c + dx^2)\sqrt{e + fx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x^2+a)^3/(d*x^2+c)/(f*x^2+e)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-
a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 58

2.3.174 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(c + dx^2)\sqrt{e + fx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x^2+a)^2/(d*x^2+c)/(f*x^2+e)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-
a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 59

2.3.175 Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(c + dx^2)\sqrt{e + fx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x^2+a)/(d*x^2+c)/(f*x^2+e)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.5-
a+b_x^2-^p-c+d_x^2-^q-e+f_x^2-^r.txt

Test file number 22

Integral number in file 60

2.3.176 Giac [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)\sqrt{a+bx^2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(b*x^2+a)^(1/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.8_P-
x-c_x-^m-a+b_x^2-^p.txt

Test file number 24

Integral number in file 5

2.3.177 Giac [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(a+bx^2)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(b*x^2+a)^(3/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.8_P-
x-c_x-^m-a+b_x^2-^p.txt

Test file number 24

Integral number in file 12

2.3.178 Giac [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(a+bx^2)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)*(b*x^2+a)^(5/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.8_P-
x-c_x^m-a+b_x^2-p.txt

Test file number 24

Integral number in file 19

2.3.179 Giac [F(-2)]

Exception generated.

$$\int \frac{A+Bx}{x\sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)/x/(b*x^2+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/1.1.2.8_P-
x-c_x^m-a+b_x^2-p.txt

Test file number 24

Integral number in file 26

2.3.180 Giac [F(-2)]

Exception generated.

$$\int (cx)^m (bx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x)^m*(b*x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 62

2.3.181 Giac [F(-2)]

Exception generated.

$$\int (cx)^m \sqrt{bx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x)^m*(b*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 63

2.3.182 Giac [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{\sqrt{bx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x)^m/(b*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 64

2.3.183 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{17/2}\sqrt{1+x^5}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^(17/2)/(x^5+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 1317

2.3.184 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10}\sqrt{2+x^6}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^10/(x^6+2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 1394

2.3.185 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{16}\sqrt{2+x^6}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^16/(x^6+2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 1395

2.3.186 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10}(2+x^6)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x^10/(x^6+2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
 c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 1419

2.3.187 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{x}}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b/x)^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
 c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 1695

2.3.188 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b/x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 1704

2.3.189 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{x}\right)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b/x)^(3/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 1705

2.3.190 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} x dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(5/2)*x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 1714

2.3.191 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 1715

2.3.192 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \frac{b}{x})^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(5/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 1716

2.3.193 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{b}{x^3}x}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a+b/x^3)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2019

2.3.194 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{b}{x^3}\right)^{3/2} x} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b/x^3)^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2039

2.3.195 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{b}{x^5} x}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a+b/x^5)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2107

2.3.196 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-a + \frac{b}{x^5}x}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(-a+b/x^5)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2108

2.3.197 Giac [F(-2)]

Exception generated.

$$\int \frac{x^{-1+\frac{n}{2}}}{\sqrt{a + bx^n}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^(-1+1/2*n)/(a+b*x^n)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value2/sageVARn*(1/2*sqrt(sageVARx^sageVARn)*s
qrt(sageV

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 2690

2.3.198 Giac [F(-2)]

Exception generated.

$$\int (cx)^{3n} (a + bx^n)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x)^(3*n)*(a+b*x^n)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [2,0,6,4,2,4,4]}%%}+%%{4, [2,0,6,4,2,3,4]}%%}+%%{6, [2,0,6,
4,2,2,
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt
```

Test file number 25

Integral number in file 2790

2.3.199 Giac [F(-2)]

Exception generated.

$$\int (cx)^{2n} (a + bx^n)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x)^(2*n)*(a+b*x^n)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [1,0,4,3,1,3,3]}%%}+%%{-3, [1,0,4,3,1,2,3]}%%}+%%{-3, [1,0
,4,3,1
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt
```

Test file number 25

Integral number in file 2791

2.3.200 Giac [F(-2)]

Exception generated.

$$\int (cx)^n (a + bx^n)^p dx = \text{Exception raised: TypeError}$$

[In] `integrate((c*x)^n*(a+b*x^n)^p,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [0,0,2,1,0,1,2]%%}+%%{-1, [0,0,2,1,0,0,2]%%} / %%{1, [0,0,3,2,

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2792

2.3.201 Giac [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{\sqrt{cx}}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x)^m*(a+b/(c*x)^(1/2))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,1,1,0]%%} / %%{1, [0,0,0,1]%%} Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2921

2.3.202 Giac [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{(cx^2)^{3/2}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x)^m*(a+b/(c*x^2)^(3/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2958

2.3.203 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b\sqrt{\frac{c}{x}}} x dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a+b*(c/x)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument ValueMinimal poly. in root
of mus

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2982

2.3.204 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b\sqrt{\frac{c}{x}}}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*(c/x)^(1/2))^(1/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_xⁿ-^p.txt

Test file number 25

Integral number in file 2984

2.3.205 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\sqrt{\frac{c}{x}}x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(a+b*(c/x)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{%%{poly1[%%{%%{%%{-1, [1]%%}, [0]%%}, [1]%%}, 0] : [1, 0, %
%%{%%{%%
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_xⁿ-^p.txt

Test file number 25

Integral number in file 2991

2.3.206 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\sqrt{\frac{c}{x}}x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a+b*(c/x)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{%%{poly1[%%{%%{%%{-1,[3]%%},[0]%%},[3]%%},0]:[1,0,%%
%%{%%
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2992

2.3.207 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\sqrt{\frac{c}{x}}x^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^4/(a+b*(c/x)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2993

2.3.208 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b\sqrt{\frac{c}{x}}}(dx)^m dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x)^m*(a+b*(c/x)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Val
ue
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 2996

2.3.209 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b\sqrt{\frac{d}{x}} + \frac{c}{x}}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+c/x+b*(d/x)^(1/2))^(1/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x-^m-a+b_x^n-^p.txt

Test file number 25

Integral number in file 3056

2.3.210 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{a + b\sqrt{\frac{d}{x} + \frac{c}{x}}}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m/(a+c/x+b*(d/x)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument ValueDone

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.2-
c_x^m-a+b_x^n^p.txt

Test file number 25

Integral number in file 3060

2.3.211 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{x}} \left(c + \frac{d}{x}\right)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d/x)^3*(a+b/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n^p-c+d_x^n^q.txt

Test file number 26

Integral number in file 224

2.3.212 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{x}} \left(c + \frac{d}{x}\right)^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d/x)^2*(a+b/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 225

2.3.213 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{x}} \left(c + \frac{d}{x}\right) dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d/x)*(a+b/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 226

2.3.214 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{x}}}{c + \frac{d}{x}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(1/2)/(c+d/x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 228

2.3.215 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} \left(c + \frac{d}{x}\right)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(3/2)*(c+d/x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 231

2.3.216 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} \left(c + \frac{d}{x}\right)^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(3/2)*(c+d/x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
 a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 232

2.3.217 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} \left(c + \frac{d}{x}\right) dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(3/2)*(c+d/x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
 a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 233

2.3.218 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
 a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 234

2.3.219 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{x}\right)^{3/2}}{c + \frac{d}{x}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(3/2)/(c+d/x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
 a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 235

2.3.220 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} \left(c + \frac{d}{x}\right)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b/x)^(5/2)*(c+d/x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 238

2.3.221 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} \left(c + \frac{d}{x}\right)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b/x)^(5/2)*(c+d/x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 239

2.3.222 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} \left(c + \frac{d}{x}\right) dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(5/2)*(c+d/x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 240

2.3.223 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 241

2.3.224 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{x}\right)^{5/2}}{c + \frac{d}{x}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b/x)^(5/2)/(c+d/x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 242

2.3.225 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(c + \frac{d}{x}\right)^3}{\sqrt{a + \frac{b}{x}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d/x)^3/(a+b/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 245

2.3.226 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + \frac{d}{x})^2}{\sqrt{a + \frac{b}{x}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d/x)^2/(a+b/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 246

2.3.227 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{b}{x}} (c + \frac{d}{x})} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c+d/x)/(a+b/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 249

2.3.228 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + \frac{d}{x})^3}{(a + \frac{b}{x})^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d/x)^3/(a+b/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 252

2.3.229 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \frac{b}{x})^{3/2} (c + \frac{d}{x})} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b/x)^(3/2)/(c+d/x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 256

2.3.230 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{b}{x}\right)^{3/2} \left(c + \frac{d}{x}\right)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b/x)^(3/2)/(c+d/x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 257

2.3.231 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{b}{x}\right)^{5/2} \left(c + \frac{d}{x}\right)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b/x)^(5/2)/(c+d/x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 263

2.3.232 Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*x^n)^p*(c+d*x^n)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [2,0,6,4,2,4,4,3,0]%%}+%%{4, [2,0,6,4,2,3,4,3,0]%%}+%%{6
, [2,0,
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-^p-c+d_x^n-^q.txt
```

Test file number 26

Integral number in file 313

2.3.233 Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [1,0,4,3,1,3,3,2,0]%%}+%%{-3, [1,0,4,3,1,2,3,2,0]%%}+%%
{-3, [1
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-^p-c+d_x^n-^q.txt
```

Test file number 26

Integral number in file 314

2.3.234 Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0,0,2,2,1,2,1,0,1]%%}+%%{2, [0,0,2,2,1,1,1,0,1]%%}+%%{1
, [0,0,
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 315

2.3.235 Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^3 (c + dx^n)^{-4-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*x^n)^3*(c+d*x^n)^(-4-1/n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{81, [2,0,6,4,2,4,3,0]%%}+%%{108, [2,0,6,3,2,4,3,0]%%}+%%{54
, [2,0,
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 321

2.3.236 Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^2 (c + dx^n)^{-3-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*x^n)^2*(c+d*x^n)^(-3-1/n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{8, [1,0,4,3,1,3,2,0]%%}+%%{12, [1,0,4,2,1,3,2,0]%%}+%%{6, [1
,0,4,1
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 322

2.3.237 Giac [F(-2)]

Exception generated.

$$\int (a + bx^n) (c + dx^n)^{-2-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*x^n)*(c+d*x^n)^(-2-1/n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0,0,2,2,1,1,0,1]%%}+%%{1, [0,0,2,1,1,1,0,1]%%}+%%{1, [0,
0,2,1,
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 323

2.3.238 Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^2 (c + dx^n)^{-4-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*x^n)^2*(c+d*x^n)^(-4-1/n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{27, [1,0,4,3,1,3,2,0]%%}+%%{27, [1,0,4,2,1,3,2,0]%%}+%%{9, [
1,0,4,
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt
```

Test file number 26

Integral number in file 330

2.3.239 Giac [F(-2)]

Exception generated.

$$\int (a + bx^n) (c + dx^n)^{-3-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*x^n)*(c+d*x^n)^(-3-1/n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{4, [0,0,2,2,1,1,0,1]%%}+%%{2, [0,0,2,1,1,1,0,1]%%}+%%{2, [0,
0,2,1,
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt
```

Test file number 26

Integral number in file 331

2.3.240 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx^3} (2(5+3\sqrt{3})a+bx^3)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(b*x^3+2*a*(5+3*3^(1/2)))/(b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 350

2.3.241 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a-bx^3} (2(5+3\sqrt{3})a-bx^3)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(-b*x^3+2*a*(5+3*3^(1/2)))/(-b*x^3+a)^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 351

2.3.242 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{-a + bx^3} (-2(5 + 3\sqrt{3})a + bx^3)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(b*x^3-2*a*(5+3*3^(1/2)))/(b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 352

2.3.243 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{-a - bx^3} (-2(5 + 3\sqrt{3})a - bx^3)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(-b*x^3-2*a*(5+3*3^(1/2)))/(-b*x^3-a)^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 353

2.3.244 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx^3} (2(5-3\sqrt{3})a+bx^3)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(b*x^3+2*a*(5-3*3^(1/2)))/(b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 354

2.3.245 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a-bx^3} (2(5-3\sqrt{3})a-bx^3)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(-b*x^3+2*a*(5-3*3^(1/2)))/(-b*x^3+a)^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 355

2.3.246 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(2(5-3\sqrt{3})a-bx^3)\sqrt{-a+bx^3}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(-b*x^3+2*a*(5-3*3^(1/2)))/(b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 356

2.3.247 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{-a-bx^3}(2(5-3\sqrt{3})a+bx^3)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x/(b*x^3+2*a*(5-3*3^(1/2)))/(-b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x^m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 357

2.3.248 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^3}(A+Bx^3)}{(ex)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((B*x^3+A)*(b*x^3+a)^(1/2)/(e*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARE/(sageVARE^4*t_nostep^6)) ignored2/sageVARE^3*sageVARB/6/sageVARE^3*sqrt(sageVARE*sageVARx)*sqrt(sageVARE*sageVARx)*sqrt(
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 522

2.3.249 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx^3)^{3/2}(A+Bx^3)}{(ex)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((b*x^3+a)^(3/2)*(B*x^3+A)/(e*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARE/(sageVARE^4*t_nostep^6)) ignored2/sageVARE^3*(120*sageVARb^5*sageVARE^3*sageVARB/1440/sageVARb^4/sageVARE^9*sqrt(sageVAR
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 533

2.3.250 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3)^{5/2} (A + Bx^3)}{(ex)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((b*x^3+a)^(5/2)*(B*x^3+A)/(e*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARE/(sageVARE^4*t_nostep^6)) ignored2/sageVARE^3*((8870400*sageVARb^12*sageVARE^9*sageVARB/159667200/sageVARb^10/sageVARE^18
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^-m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 541

2.3.251 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^3}{(ex)^{5/2} (a + bx^3)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((B*x^3+A)/(e*x)^(5/2)/(b*x^3+a)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARE/(sageVARE^4*t_nostep^6)) ignored2*(-(23914845*sageVARb^7*sageVARE^18*sageVARa^6*sageVARA-9565938*sageVARb^6*sageVARE^18*
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^-m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 565

2.3.252 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 788

2.3.253 Giac [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 790

2.3.254 Giac [F(-2)]

Exception generated.

$$\int \frac{x^9}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^9/(b*x^4+a)/(d*x^4+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 810

2.3.255 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5/(b*x^4+a)/(d*x^4+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 811

2.3.256 Giac [F(-2)]

Exception generated.

$$\int \frac{x^{19}}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^19/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 892

2.3.257 Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^11/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-
e_x^m-a+b_x^n^p-c+d_x^n^q.txt

Test file number 27

Integral number in file 893

2.3.258 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x^2}\right)^p \left(c + \frac{d}{x^2}\right)^q (ex)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x^2)^p*(c+d/x^2)^q*(e*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,6,1,1,0]%%} / %%{1,[0,0,0,0,3]%%} Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 996

2.3.259 Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x^2}\right)^p \left(c + \frac{d}{x^2}\right)^q (ex)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/x^2)^p*(c+d/x^2)^q*(e*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,4,1,1,0]%%} / %%{1,[0,0,0,0,2]%%} Error: Bad Argument Value

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x^n-^p-c+d_x^n-^q.txt

Test file number 27

Integral number in file 997

2.3.260 Giac [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (A + Bx^n)(c + dx^n) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [1,0,4,3,0,1,3,3,1,1,0,0]%%}+%%{-3, [1,0,4,3,0,1,2,3,1,1,
0,0]%%
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-
g_x-^m-a+b_x^n-^p-c+d_x^n-^q-e+f_x^n-^r.txt

Test file number 28

Integral number in file 42

2.3.261 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\sqrt{a + bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(b/a)^(1/3)*x+3^(1/2))/(b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x-^m-a+b_x^n-^p.txt

Test file number 29

Integral number in file 87

2.3.262 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\sqrt{a - bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-(b/a)^(1/3)*x+3^(1/2))/(-b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 88

2.3.263 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\sqrt{-a + bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-(b/a)^(1/3)*x+3^(1/2))/(b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 89

2.3.264 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\sqrt{-a - bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(b/a)^(1/3)*x+3^(1/2))/(-b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 90

2.3.265 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\sqrt{a + bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(b/a)^(1/3)*x-3^(1/2))/(b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 103

2.3.266 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\sqrt{a - bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-(b/a)^(1/3)*x-3^(1/2))/(-b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 104

2.3.267 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\sqrt{-a + bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-(b/a)^(1/3)*x-3^(1/2))/(b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 105

2.3.268 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\sqrt{-a - bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(b/a)^(1/3)*x-3^(1/2))/(-b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 106

2.3.269 Giac [F(-2)]

Exception generated.

$$\int (cx)^m (a + bx^n)^p (d + ex^n + fx^{2n} + gx^{3n}) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x)^m*(a+b*x^n)^p*(d+e*x^n+f*x^(2*n)+g*x^(3*n)),x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [2,0,6,4,0,2,4,4,1,0,0,0]%%}+%%{4, [2,0,6,4,0,2,3,4,1,0,0,
0]%%}
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 587

2.3.270 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{a+bx^3}{x}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((b*x^3+a)/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 407

2.3.271 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{a+bx^5}{x^3}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((b*x^5+a)/x^3)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x^j+b_x^n-^p.txt

Test file number 30

Integral number in file 409

2.3.272 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{a-bx^3}{x}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((-b*x^3+a)/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x-^j+b_x-ⁿ-^p.txt

Test file number 30

Integral number in file 411

2.3.273 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{a-bx^5}{x^3}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((-b*x^5+a)/x^3)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-
c_x-^m-a_x-^j+b_x-ⁿ-^p.txt

Test file number 30

Integral number in file 413

2.3.274 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 289

2.3.275 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x)^(1/2)/(e*x+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 290

2.3.276 Giac [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x)^(3/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 299

2.3.277 Giac [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x)^(5/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 306

2.3.278 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{bx+cx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 320

2.3.279 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{d+ex} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c*x^2+a)^(1/2)/(e*x+d),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Error:
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 529

2.3.280 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{(d+ex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+a)^(1/2)/(e*x+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 530

2.3.281 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+cx^2)^{3/2}}{d+ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+a)^(3/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 538

2.3.282 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+a)^(5/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 549

2.3.283 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)^2 \sqrt{a + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 566

2.3.284 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 - b^2 x^2}}{(a + bx)^2} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((-b^2*x^2+a^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: abs(sageVARb)*(-(2*atan(i)-2*i)/sageVARb^2*sign((sageVARb*sageVARx+sageVARa)^-1)*sign(sageVARb)-2*sageVARa*(sqrt(2*sageVARa*sageVARb*(sageVARb*sageVARx+sageVARa)^-1/sageVA
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 782

2.3.285 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-x^2}}{(1-x)^2} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((-x^2+1)^(1/2)/(1-x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -(2*atan(i)-2*i)*sign((sageVARx-1)^-1)+2*(-sqrt(-2*(sageVARx-1)^-1-1)*sign((sageVARx-1)^-1)+sign((sageVARx-1)^-1)*atan(sqrt(-2*(sageVARx-1)^-1-1)))
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 824

2.3.286 Giac [F(-2)]

Exception generated.

$$\int (2 + ex)^{5/2} \sqrt{12 - 3e^2x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+2)^(5/2)*(-3*e^2*x^2+12)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 894

2.3.287 Giac [F(-2)]

Exception generated.

$$\int \sqrt{2 + ex} \sqrt{12 - 3e^2x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+2)^(1/2)*(-3*e^2*x^2+12)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 896

2.3.288 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{12 - 3e^2x^2}}{(2 + ex)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-3*e^2*x^2+12)^(1/2)/(e*x+2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 898

2.3.289 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{12 - 3e^2x^2}}{(2 + ex)^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-3*e^2*x^2+12)^(1/2)/(e*x+2)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 900

2.3.290 Giac [F(-2)]

Exception generated.

$$\int (2 + ex)^{5/2} (12 - 3e^2x^2)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+2)^(5/2)*(-3*e^2*x^2+12)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 901

2.3.291 Giac [F(-2)]

Exception generated.

$$\int \sqrt{2 + ex} (12 - 3e^2x^2)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+2)^(1/2)*(-3*e^2*x^2+12)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 903

2.3.292 Giac [F(-2)]

Exception generated.

$$\int \frac{(2+ex)^{7/2}}{\sqrt{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+2)^(7/2)/(-3*e^2*x^2+12)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 911

2.3.293 Giac [F(-2)]

Exception generated.

$$\int \frac{(2+ex)^{5/2}}{\sqrt{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+2)^(5/2)/(-3*e^2*x^2+12)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 912

2.3.294 Giac [F(-2)]

Exception generated.

$$\int \frac{(2+ex)^{3/2}}{\sqrt{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+2)^(3/2)/(-3*e^2*x^2+12)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 913

2.3.295 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2+ex)^{3/2}\sqrt{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+2)^(3/2)/(-3*e^2*x^2+12)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 916

2.3.296 Giac [F(-2)]

Exception generated.

$$\int \frac{(2+ex)^{11/2}}{(12-3e^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+2)^(11/2)/(-3*e^2*x^2+12)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 918

2.3.297 Giac [F(-2)]

Exception generated.

$$\int \frac{(2+ex)^{7/2}}{(12-3e^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+2)^(7/2)/(-3*e^2*x^2+12)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2^p.txt

Test file number 33

Integral number in file 920

2.3.298 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2+ex)^{3/2}(12-3e^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(e*x+2)^(3/2)/(-3*e^2*x^2+12)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 925

2.3.299 Giac [F(-2)]

Exception generated.

$$\int \sqrt{2+ex} \sqrt[4]{12-3e^2x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+2)^(1/2)*(-3*e^2*x^2+12)^(1/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 930

2.3.300 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{12-3e^2x^2}}{(2+ex)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-3*e^2*x^2+12)^(1/4)/(e*x+2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 932

2.3.301 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{12-3e^2x^2}}{(2+ex)^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-3*e^2*x^2+12)^(1/4)/(e*x+2)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 934

2.3.302 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{12-3e^2x^2}}{(2+ex)^{11/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-3*e^2*x^2+12)^(1/4)/(e*x+2)^(11/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 936

2.3.303 Giac [F(-2)]

Exception generated.

$$\int \frac{(2+ex)^{5/2}}{\sqrt[4]{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+2)^(5/2)/(-3*e^2*x^2+12)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 937

2.3.304 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2+ex)^{3/2}\sqrt[4]{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+2)^(3/2)/(-3*e^2*x^2+12)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 941

2.3.305 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2+ex)^{7/2}\sqrt[4]{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+2)^(7/2)/(-3*e^2*x^2+12)^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 943

2.3.306 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,2]%%}, [4]%%}+%%{%%{[-4, [0,1,1]%%},0]: [1,0,%%}{-1
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1914

2.3.307 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,3]%%}, [6]%%}+%%{%%{[-6, [0,1,2]%%},0]: [1,0,%%}{-1
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1915

2.3.308 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{1, [0,0,5]%%}, [10]%%}+%%{%%{[%%{-10, [0,1,4]%%},0]: [1,
0,%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1917

2.3.309 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{[%%{1, [0,0,10]%%},0]: [1,0,%%{-1, [1,1,1]%%}]%%}, [4,4]%%
%}+%%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1926

2.3.310 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,4]%%}, [8]%%}+%%{%%{[%%{-8, [0,1,3]%%},0]: [1,0,%%{-1
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1928

2.3.311 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^7,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,5]%%}, [10]%%}+%%{%%{[%%{-10, [0,1,4]%%},0]: [1,0,%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1929

2.3.312 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^8,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,6]%%}, [12]%%}+%%{%%{[%%{-12, [0,1,5]%%},0]: [1,0,%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1930

2.3.313 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{1, [0,0,15]%%},0]: [1,0,%%{-1, [1,1,1]%%}]%%}, [6,6]%%}+%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1941

2.3.314 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^7,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,4]%%}, [8]%%}+%%{%%{[%%{-8, [0,1,3]%%},0]: [1,0,%%{-1
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1942

2.3.315 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^8,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,5]%%}, [10]%%}+%%{%%{[%%{-10, [0,1,4]%%},0]: [1,0,%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1943

2.3.316 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^9,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{1, [0,0,6]%%}, [12]%%}+%%{%%{[%%{-12, [0,1,5]%%},0]: [1,
0,%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1944

2.3.317 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^10,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{1, [0,0,7]%%}, [14]%%}+%%{%%{[%%{-14, [0,1,6]%%},0]: [1,
0,%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1945

2.3.318 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,1]%%},[2]%%}+%%{%%{[-2,[0,1,0]%%},0]:[1,0,%%{-1
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1950

2.3.319 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,3]%%},[6]%%}+%%{%%{[-6,[0,1,2]%%},0]:[1,0,%%{-1
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1952

2.3.320 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{1, [0,0,4]%%}, [8]%%}+%%{%%{[-8, [0,1,3]%%},0]: [1,0,
%%{-1
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1953

2.3.321 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{16, [5,5,4]%%},0]: [1,0,%%{-1, [1,1,1]%%}}%%}, [2,2]%%
%}+%%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1954

2.3.322 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{%%{8,[4,4,4]%%},0}: [1,0,%%{-1,[1,1,1]%%}]]%%}, [2,2]%%
}+%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1955

2.3.323 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{%%{2,[3,3,4]%%},0}: [1,0,%%{-1,[1,1,1]%%}]]%%}, [2,2]%%
}+%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1956

2.3.324 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [1,1,4]%%},0}: [1,0,%%{-1, [1,1,1]%%}], [2,2]%% }+%%{

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1957

2.3.325 Giac [F(-2)]

Exception generated.

$$\int \frac{d+ex}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [1,1,0]%%}, [2,0]%%}+%%{%%{[-2, [0,0,1]%%},0]: [1,0,%%{

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1958

2.3.326 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^6}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)^6/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{%%{8,[6,6,8]%%},0}: [1,0,%%{-1,[1,1,1]%%}]%%}, [4,4]%%
}+%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1964

2.3.327 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{%%{2,[5,5,8]%%},0}: [1,0,%%{-1,[1,1,1]%%}]%%}, [4,4]%%
}+%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1965

2.3.328 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [2,2,8]%%},0}:[1,0,%%{-1, [1,1,1]%%}]%%}, [4,4]%%}+%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1966

2.3.329 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [2,2,0]%%}, [4,0]%%}+%%{%%{1, [2,2,0]%%}, [4,0]%%}+%%{%%{-4, [1,1,1]%%},0}:[1,0,%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1967

2.3.330 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [2,2,0]%%}, [4,0]%%}+%%{%%{ [%%{-4, [1,1,1]%%},0]: [1,0,%%{

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 1968

2.3.331 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{d+ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x^2-p.txt

Test file number 33

Integral number in file 2337

2.3.332 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2338

2.3.333 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2347

2.3.334 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2359

2.3.335 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-
d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2379

2.3.336 Giac [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)\sqrt{a+cx^2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)*(c*x^2+a)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 319

2.3.337 Giac [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(a+cx^2)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)*(c*x^2+a)^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 331

2.3.338 Giac [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(a+cx^2)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(c*x^2+a)^(5/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 344

2.3.339 Giac [F(-2)]

Exception generated.

$$\int \frac{A+Bx}{x\sqrt{a+cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)/x/(c*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 359

2.3.340 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 915

2.3.341 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 927

2.3.342 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 940

2.3.343 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 955

2.3.344 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1166

2.3.345 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1175

2.3.346 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1179

2.3.347 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1186

2.3.348 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{bx + cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)/(e*x+d)/(c*x^2+b*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1195

2.3.349 Giac [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1551

2.3.350 Giac [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1561

2.3.351 Giac [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-
d+e_x^m-f+g_x-a+b_x+c_x^2-p.txt

Test file number 34

Integral number in file 1569

2.3.352 Giac [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1577

2.3.353 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^m}{\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*x+a)*(e*x+d)^m/(b^2*x^2+2*a*b*x+a^2)^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2154

2.3.354 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,3,0,0]%%}, [6,1]%%}+%%{%%{[-6, [0,2,1,0]%%},0]
:[1,0,
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2178

2.3.355 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,4,0,0]%%}, [8,1]%%}+%%{%%{[-8, [0,3,1,0]%%},0]
:[1,0,
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2191

2.3.356 Giac [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)/(e*x+d)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{1,[6,3,13,0]%%}+%%{-12,[5,4,12,1]%%}+%%{60,[4,5,11,2]%%}+%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2214

2.3.357 Giac [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^4 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)/(e*x+d)^4/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{1,[8,4,16,0]%%}+%%{-16,[7,5,15,1]%%}+%%{112,[6,6,14,2]%%}+%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2215

2.3.358 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [6,0,10,2]%%}+%%{-10, [5,1,9,3]%%}+%%{41, [4,2,8,4]%%}+%%%

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2226

2.3.359 Giac [F(-2)]

Exception generated.

$$\int \frac{A+Bx}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2469

2.3.360 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1+ax)\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(a*x+1)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 150

2.3.361 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(1-ax)\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^2/(-a*x+1)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 155

2.3.362 Giac [F(-2)]

Exception generated.

$$\int \frac{(d^2 - e^2 x^2)^{5/2}}{x(d + ex)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-e^2*x^2+d^2)^(5/2)/x/(e*x+d)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 163

2.3.363 Giac [F(-2)]

Exception generated.

$$\int \frac{(d^2 - e^2 x^2)^{5/2}}{x^2(d + ex)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-e^2*x^2+d^2)^(5/2)/x^2/(e*x+d)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 164

2.3.364 Giac [F(-2)]

Exception generated.

$$\int \frac{(d^2 - e^2 x^2)^{5/2}}{x^3 (d + ex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-e^2*x^2+d^2)^(5/2)/x^3/(e*x+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 165

2.3.365 Giac [F(-2)]

Exception generated.

$$\int \frac{(d^2 - e^2 x^2)^{5/2}}{x^4 (d + ex)^2} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate((-e^2*x^2+d^2)^(5/2)/x^4/(e*x+d)^2,x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: abs(s
ageVARE)*(1/3*(12*sageVARE^2*sqrt(2*sageVARd*sageVARE*(sageVARE*sageVARx+sa
geVARd)^-1/sageVARE-1)*(2*sageVARd*sageVARE*(sageVARE*sageVARx+sageVARd)^-1
/sageVARE-1)^2*s

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 166

2.3.366 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)^2 (d^2 - e^2x^2)^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(x^4/(e*x+d)^2/(-e^2*x^2+d^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 1/abs
(sageVARE)*(1/32768*(-20480/3*sageVARE^16*sqrt(2*sageVARd*sageVARE*(sageVAR
e*sageVARx+sageVARd)^-1/sageVARE-1)*(2*sageVARd*sageVARE*(sageVARE*sageVARx
+sageVARd)^-1/sa
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 171

2.3.367 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{1-a^2x^2}}{(1-ax)^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(-a^2*x^2+1)^(1/2)/(-a*x+1)^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 210

2.3.368 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{1 - a^2 x^2}}{(1 - ax)^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(-a^2*x^2+1)^(1/2)/(-a*x+1)^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 211

2.3.369 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - acx} \sqrt{1 - a^2 x^2}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^(1/2)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 218

2.3.370 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}\sqrt{1-a^2x^2}}{\sqrt{1+ax}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^(1/2)*(-a^2*x^2+1)^(1/2)/(a*x+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt
```

Test file number 35

Integral number in file 225

2.3.371 Giac [F(-2)]

Exception generated.

$$\int \frac{(gx)^m (d^2 - e^2x^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x)^m*(-e^2*x^2+d^2)^(5/2)/(e*x+d)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [0,6,1,0,0]%%}+%%{-3, [0,4,1,0,0]%%}+%%{-3, [0,2,1,0,0]%%
%%}+%%
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt
```

Test file number 35

Integral number in file 231

2.3.372 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{a + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*(c*x^2+a)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 316

2.3.373 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(c*x^2+a)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 317

2.3.374 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c*x^2+a)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 318

2.3.375 Giac [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c*x^2+a)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 319

2.3.376 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{d+ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+a)^(1/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 320

2.3.377 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{x(d+ex)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+a)^(1/2)/x/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 321

2.3.378 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 326

2.3.379 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 327

2.3.380 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 328

2.3.381 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 329

2.3.382 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex)\sqrt{a+cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(e*x+d)/(c*x^2+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 331

2.3.383 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)(a+cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4/(e*x+d)/(c*x^2+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 334

2.3.384 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)(a+cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(e*x+d)/(c*x^2+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x^m-f+g_x^n-a+b_x+c_x^2^p.txt

Test file number 35

Integral number in file 335

2.3.385 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex)(a+cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(e*x+d)/(c*x^2+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x^m-f+g_x^n-a+b_x+c_x^2^p.txt

Test file number 35

Integral number in file 339

2.3.386 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)^2\sqrt{a+cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 345

2.3.387 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2\sqrt{a+cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+d)^2/(c*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 347

2.3.388 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{x(d + ex)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 441

2.3.389 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{x(d + ex)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 450

2.3.390 Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x(d + ex)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 461

2.3.391 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(d + ex)\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{1, [0,0,5]%%},0}: [1,0,%%{-1, [1,1,1]%%}]%%}, [2,2]%%
}+%%{
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 472

2.3.392 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{1,[0,0,1]%%},[2]%%}+%%{%%{-2,[0,1,0]%%},0}: [1,0,%%{-1
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 473

2.3.393 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{1,[0,1,5]%%},[2,2]%%}+%%{%%{-2,[1,3,3]%%},[2,1]%%}+%%{%%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 474

2.3.394 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,1]%%},[6,0]%%}+%%{%%{-2,[0,1,0]%%},0}: [1,0,%%{

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 475

2.3.395 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^3/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,3,9]%%},[2,4]%%}+%%{%%{-4,[1,5,7]%%},[2,3]%%}+%%{%%{-

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m-f+g_x^n-a+b_x+c_x^2-p.txt

Test file number 35

Integral number in file 476

2.3.396 Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2} \sqrt{f+gx}}{a+cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)^(3/2)*(g*x+f)^(1/2)/(c*x^2+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 605

2.3.397 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex} \sqrt{f+gx}}{a+cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)^(1/2)*(g*x+f)^(1/2)/(c*x^2+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 606

2.3.398 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^3*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 854

2.3.399 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^2*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 855

2.3.400 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 856

2.3.401 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 857

2.3.402 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{(d+ex)(f+gx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)/(g*x+f),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 858

2.3.403 Giac [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^3(a+bx+cx^2)^{3/2}}{d+ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^3*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 862

2.3.404 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^2*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 863

2.3.405 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 864

2.3.406 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 865

2.3.407 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)/(g*x+f),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 866

2.3.408 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)(f + gx)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)/(g*x+f)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 868

2.3.409 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)/(g*x+f),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 869

2.3.410 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^4}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^4/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 870

2.3.411 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 871

2.3.412 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 872

2.3.413 Giac [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 873

2.3.414 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(e*x+d)/(g*x+f)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 875

2.3.415 Giac [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^4}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^4/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-
d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 878

2.3.416 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 879

2.3.417 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(f + gx)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(e*x+d)/(g*x+f)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 883

2.3.418 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d+bx+cx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c*x^2+b*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 3

2.3.419 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d+bx+cx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c*x^2+b*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 5

2.3.420 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3-x+2x^2}}{2+3x+5x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(1/2)/(5*x^2+3*x+2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 62

2.3.421 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3-x+2x^2}}{(2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(1/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 63

2.3.422 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3-x+2x^2}}{(2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(1/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinitiy,infinitiy,infinitiy]proot error [1.0,infinitiy,infinitiy,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 36

Integral number in file 64

2.3.423 Giac [F(-2)]

Exception generated.

$$\int \frac{(3-x+2x^2)^{3/2}}{2+3x+5x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(3/2)/(5*x^2+3*x+2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinitiy,infinitiy,infinitiy]proot error [1.0,infinitiy,infinitiy,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 36

Integral number in file 69

2.3.424 Giac [F(-2)]

Exception generated.

$$\int \frac{(3-x+2x^2)^{3/2}}{(2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(3/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{174900625, [8]%%}%+%%{%%{[-419761500,0]: [1,0,-2]%%}, [7]%%}%+
%%{-68
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 70

2.3.425 Giac [F(-2)]

Exception generated.

$$\int \frac{(3-x+2x^2)^{3/2}}{(2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(3/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 71

2.3.426 Giac [F(-2)]

Exception generated.

$$\int \frac{(3-x+2x^2)^{5/2}}{2+3x+5x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(5/2)/(5*x^2+3*x+2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 36

Integral number in file 76

2.3.427 Giac [F(-2)]

Exception generated.

$$\int \frac{(3-x+2x^2)^{5/2}}{(2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(5/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{15625, [8]%%}+%%{%%{[-37500,0]: [1,0,-2]%%}, [7]%%}+%%{-6125
0, [6]%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 36

Integral number in file 77

2.3.428 Giac [F(-2)]

Exception generated.

$$\int \frac{(3 - x + 2x^2)^{5/2}}{(2 + 3x + 5x^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2*x^2-x+3)^(5/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 78

2.3.429 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3 - x + 2x^2} (2 + 3x + 5x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(5*x^2+3*x+2)/(2*x^2-x+3)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 83

2.3.430 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3-x+2x^2}(2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(5*x^2+3*x+2)^2/(2*x^2-x+3)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 84

2.3.431 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3-x+2x^2}(2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(5*x^2+3*x+2)^3/(2*x^2-x+3)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 85

2.3.432 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{3/2}(2+3x+5x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(2*x^2-x+3)^(3/2)/(5*x^2+3*x+2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 90

2.3.433 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{3/2}(2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(2*x^2-x+3)^(3/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 91

2.3.434 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{3/2}(2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(2*x^2-x+3)^(3/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 92

2.3.435 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{5/2}(2+3x+5x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(2*x^2-x+3)^(5/2)/(5*x^2+3*x+2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 97

2.3.436 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{5/2} (2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(2*x^2-x+3)^(5/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 98

2.3.437 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{5/2} (2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(2*x^2-x+3)^(5/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Francis algorithm failure for[-1.0,in
finitiy,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infini
ty,inf
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 99

2.3.438 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 102

2.3.439 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex + fx^2)^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d)^2,x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-
a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 103

2.3.440 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 106

2.3.441 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(1/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.5-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 36

Integral number in file 117

2.3.442 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 6

2.3.443 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx + cx^2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueBad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 7

2.3.444 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 8

2.3.445 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{5/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)/(c*x^2+b*x+a)^(5/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 9

2.3.446 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 19

2.3.447 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 20

2.3.448 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)\sqrt{d + ex + fx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+e*x+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%poly1[%%{-4, [3,2,0]%%}+%%{16, [1,3,1]%%},%%{4, [4,2,0]%%}+%%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x-^m-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 37

Integral number in file 21

2.3.449 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + cx^2)\sqrt{d + ex + fx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)/(c*x^2+a)/(f*x^2+e*x+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x-^m-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 37

Integral number in file 22

2.3.450 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)\sqrt{d + fx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{poly1[%%{-4, [3,2,0]%%}+%%{16, [1,3,1]%%},%%{4, [4,2,0]%%}+%%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 23

2.3.451 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}\sqrt{c + dx^2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((b*x+a)^2)^(1/2)*(d*x^2+c)^(1/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 43

2.3.452 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}\sqrt{c + ex + dx^2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(((b*x+a)^2)^(1/2)*(d*x^2+e*x+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 49

2.3.453 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{a + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 52

2.3.454 Giac [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 53

2.3.455 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 54

2.3.456 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{x(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+a)^(1/2)/x/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 55

2.3.457 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{x^2(d+ex+fx^2)} dx = \text{Exception raised: AttributeError}$$

[In] integrate((c*x^2+a)^(1/2)/x^2/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: AttributeError >> type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 56

2.3.458 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{x^3(d+ex+fx^2)} dx = \text{Exception raised: AttributeError}$$

[In] integrate((c*x^2+a)^(1/2)/x^3/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: AttributeError >> type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 57

2.3.459 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+cx^2)^{3/2}}{d+ex+fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 58

2.3.460 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 59

2.3.461 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 60

2.3.462 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{x(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+a)^(3/2)/x/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 61

2.3.463 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{x^2(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+a)^(3/2)/x^2/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 62

2.3.464 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{x^3(d + ex + fx^2)} dx = \text{Exception raised: AttributeError}$$

[In] integrate((c*x^2+a)^(3/2)/x^3/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: AttributeError >> type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 63

2.3.465 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a + cx^2}(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(f*x^2+e*x+d)/(c*x^2+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 64

2.3.466 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(f*x^2+e*x+d)/(c*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 65

2.3.467 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{a+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(1/x^2/(f*x^2+e*x+d)/(c*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 69

2.3.468 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x^3/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 71

2.3.469 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x^2/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 72

2.3.470 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

[Out] Exception raised: AttributeError >> type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^{m-a}+b_x+c_x^{2-p}-d+e_x+f_x^{2-q}.txt

Test file number 37

Integral number in file 73

2.3.471 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a+cx^2)^{3/2}(d+ex+fx^2)} dx = \text{Exception raised: AttributeError}$$

[In] integrate(1/(c*x²+a)^(3/2)/(f*x²+e*x+d),x, algorithm="giac")

[Out] Exception raised: AttributeError >> type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^{m-a}+b_x+c_x^{2-p}-d+e_x+f_x^{2-q}.txt

Test file number 37

Integral number in file 74

2.3.472 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+cx^2)^{3/2}(d+ex+fx^2)} dx = \text{Exception raised: AttributeError}$$

[In] integrate(1/x²/(c*x²+a)^(3/2)/(f*x²+e*x+d),x, algorithm="giac")

[Out] Exception raised: AttributeError >> type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^{m-a}+b_x+c_x^{2-p}-d+e_x+f_x^{2-q}.txt

Test file number 37

Integral number in file 76

2.3.473 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 77

2.3.474 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 78

2.3.475 Giac [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx+cx^2}}{d-fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 79

2.3.476 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{d-fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 80

2.3.477 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{x^2(d-fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/x^2/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 82

2.3.478 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{x^3(d-fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/x^3/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 83

2.3.479 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx+cx^2)^{3/2}}{d-fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
 g+h_x^m-a+b_x+c_x²-^p-d+e_x+f_x²-^q.txt

Test file number 37

Integral number in file 84

2.3.480 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx+cx^2)^{3/2}}{d-fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x²*(c*x²+b*x+a)^(3/2)/(-f*x²+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
 g+h_x^m-a+b_x+c_x²-^p-d+e_x+f_x²-^q.txt

Test file number 37

Integral number in file 85

2.3.481 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx+cx^2)^{3/2}}{d-fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c*x²+b*x+a)^(3/2)/(-f*x²+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
 g+h_x^m-a+b_x+c_x²-^p-d+e_x+f_x²-^q.txt

Test file number 37

Integral number in file 86

2.3.482 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 87

2.3.483 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x(d - fx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/x/(-f*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 88

2.3.484 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x^2(d - fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)/x^2/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x-^m-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 37

Integral number in file 89

2.3.485 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x^3(d - fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)/x^3/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x-^m-a+b_x+c_x^2-^p-d+e_x+f_x^2-^q.txt

Test file number 37

Integral number in file 90

2.3.486 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{1 - x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(3/2)/(-x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 91

2.3.487 Giac [F(-2)]

Exception generated.

$$\int \frac{(x + x^2)^{3/2}}{1 + x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2+x)^(3/2)/(x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{poly1[2937825863393165301979971848533484854911359614337236965430

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 93

2.3.488 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 94

2.3.489 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 95

2.3.490 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 96

2.3.491 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueBad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 97

2.3.492 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument ValueBad Argument Type
 input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
 g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 98

2.3.493 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x^2/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument ValueDone
 input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
 g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 100

2.3.494 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{a + bx + cx^2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^3/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 101

2.3.495 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 102

2.3.496 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 103

2.3.497 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 104

2.3.498 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt
```

Test file number 37

Integral number in file 105

2.3.499 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt
```

Test file number 37

Integral number in file 106

2.3.500 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx+cx^2)^{3/2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^2/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 108

2.3.501 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a+bx+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 109

2.3.502 Giac [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 110

2.3.503 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-
g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 111

2.3.504 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{x(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+b*x+a)^(1/2)/x/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 112

2.3.505 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 114

2.3.506 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 115

2.3.507 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a+bx+cx^2)^{3/2}(d+ex+fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x^2/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 122

2.3.508 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx+cx^2)^{3/2}(d+ex+fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 123

2.3.509 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx+cx^2)^{3/2}(d+ex+fx^2)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(1/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.6-g+h_x^m-a+b_x+c_x^2-p-d+e_x+f_x^2-q.txt

Test file number 37

Integral number in file 124

2.3.510 Giac [F(-2)]

Exception generated.

$$\int \frac{A+Bx+Cx^2}{(d+ex)^2\sqrt{d^2-e^2x^2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((C*x^2+B*x+A)/(e*x+d)^2/(-e^2*x^2+d^2)^(1/2),x, algorithm="giac")
```

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: $1/\text{abs}(\text{sageVARE}) * (-(-i) * \text{sageVARA} * \text{sageVARE}^2 + (-2*i) * \text{sageVARB} * \text{sageVARd} * \text{sageVARE} - 6 * \text{sageVARC} * \text{sageVARd}^2 * \text{atan}(i) + 5*i * \text{sageVARC} * \text{sageVARd}^2) / 3 / \text{sageVARd}^2 / \text{sageVARE}^2 * \text{sign}(\text{sageVARE}$

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 15

2.3.511 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + cx^2}(d + ex + fx^2)}{g + hx} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x^2+e*x+d)*(c*x^2+a)^(1/2)/(h*x+g),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 82

2.3.512 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}(d + ex + fx^2)}{g + hx} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^2+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 92

2.3.513 Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)\sqrt{a + cx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((f*x^2+e*x+d)/(h*x+g)/(c*x^2+a)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 105

2.3.514 Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^2\sqrt{a + cx^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((f*x^2+e*x+d)/(h*x+g)^2/(c*x^2+a)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 106

2.3.515 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}(d+ex+fx^2)}{g+hx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x^2+e*x+d)*(c*x^2+b*x+a)^(1/2)/(h*x+g),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 190

2.3.516 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx+cx^2)^{3/2}(d+ex+fx^2)}{g+hx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 200

2.3.517 Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x^2+e*x+d)/(h*x+g)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 230

2.3.518 Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^2\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x^2+e*x+d)/(h*x+g)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 231

2.3.519 Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x^3+f*x^2+e*x+d)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 283

2.3.520 Giac [F(-2)]

Exception generated.

$$\int \frac{(2 + 5x + x^2) \sqrt{3 + 2x + 5x^2}}{(1 + 4x - 7x^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2+5*x+2)*(5*x^2+2*x+3)^(1/2)/(-7*x^2+4*x+1)^2,x, algorithm="gi
ac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{184473632, [8]%%}+%%{%%{ [421654016, 0] : [1, 0, -5]%%}, [7]%%}+%%
%{-248
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-
x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 378

2.3.521 Giac [F(-2)]

Exception generated.

$$\int \frac{(2 + 5x + x^2)(3 + 2x + 5x^2)^{3/2}}{(1 + 4x - 7x^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2+5*x+2)*(5*x^2+2*x+3)^(3/2)/(-7*x^2+4*x+1)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{63274455776, [8]%%}+%%{%%{[144627327488, 0] : [1, 0, -5]%%}, [7]%%
%}+%%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-d_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 384

2.3.522 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^4+b*x^2+a)^(1/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x^2+c_x^4-^p.txt

Test file number 39

Integral number in file 924

2.3.523 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.2-d_x-^m-a+b_x^2+c_x^4-^p.txt

Test file number 39

Integral number in file 940

2.3.524 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a}\sqrt{b} + bx^2}{a + bx^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*x^2+a^(1/2)*b^(1/2))/(b*x^4+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 9

2.3.525 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a}\sqrt{b} - bx^2}{a + bx^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-b*x^2+a^(1/2)*b^(1/2))/(b*x^4+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 10

2.3.526 Giac [F(-2)]

Exception generated.

$$\int \frac{2\sqrt{a} - x^2}{a - \sqrt{a}x^2 + x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-x^2+2*a^(1/2))/(a+x^4-x^2*a^(1/2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 107

2.3.527 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{a - \sqrt{ax^2 + x^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x^2+A)/(a+x^4-x^2*a^(1/2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 110

2.3.528 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{a - \sqrt{acx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x^2+A)/(a+c*x^4-x^2*(a*c)^(1/2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 111

2.3.529 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{a - \sqrt{a}\sqrt{cx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x^2+A)/(a+c*x^4-x^2*a^(1/2)*c^(1/2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 112

2.3.530 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2}}{-cd^2 + bde + be^2x^2 + ce^2x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)^(5/2)/(c*e^2*x^4+b*e^2*x^2+b*d*e-c*d^2),x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 220

2.3.531 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2}}{-cd^2 + bde + be^2x^2 + ce^2x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)^(3/2)/(c*e^2*x^4+b*e^2*x^2+b*d*e-c*d^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 221

2.3.532 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*x^2+A)/x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x-^m-d+e_x^2-^q-a+b_x^2+c_x^4-^p.txt

Test file number 41

Integral number in file 172

2.3.533 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 311

2.3.534 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 312

2.3.535 Giac [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx^2+cx^4}}{d+ex^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 313

2.3.536 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2+cx^4}}{x(d+ex^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^2+a)^(1/2)/x/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 314

2.3.537 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 322

2.3.538 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 323

2.3.539 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 324

2.3.540 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x(d + ex^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^2+a)^(3/2)/x/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 325

2.3.541 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^3 (d + ex^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^4+b*x^2+a)^(3/2)/x^3/(e*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 326

2.3.542 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 332

2.3.543 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex^2)\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 333

2.3.544 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex^2)\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 335

2.3.545 Giac [F(-2)]

Exception generated.

$$\int \frac{x^7}{(d + ex^2)(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^7/(e*x^2+d)/(c*x^4+b*x^2+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x-^m-d+e_x^2-^q-a+b_x^2+c_x^4-^p.txt

Test file number 41

Integral number in file 342

2.3.546 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d + ex^2)(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(e*x^2+d)/(c*x^4+b*x^2+a)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x-^m-d+e_x^2-^q-a+b_x^2+c_x^4-^p.txt

Test file number 41

Integral number in file 346

2.3.547 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{d + ex^2}}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 361

2.3.548 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{d + ex^2}}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 362

2.3.549 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(d+ex^2)^{3/2}}{a+bx^2+cx^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 371

2.3.550 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex^2)^{3/2}}{a+bx^2+cx^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 372

2.3.551 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2}}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 373

2.3.552 Giac [F(-2)]

Exception generated.

$$\int \frac{x^8}{\sqrt{d + ex^2} (a + bx^2 + cx^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^8/(c*x^4+b*x^2+a)/(e*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 386

2.3.553 Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{\sqrt{d+ex^2}(a+bx^2+cx^4)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^6/(c*x^4+b*x^2+a)/(e*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 387

2.3.554 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{d+ex^2}(a+bx^2+cx^4)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4/(c*x^4+b*x^2+a)/(e*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 388

2.3.555 Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)^{3/2} (a + bx^2 + cx^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^6/(e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.4-
 f_x^m-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 41

Integral number in file 394

2.3.556 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + ex + dx^2} \sqrt{a^2 + 2abx^2 + b^2x^4}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.7_P-
 x-d+e_x^2-q-a+b_x^2+c_x^4-p.txt

Test file number 44

Integral number in file 39

2.3.557 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{2 + x^3 + x^6} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(x^6+x^3+2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valueinte
grate(1/(sageVARx^6+sageVARx^3+2),sageVARx)

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-
d_x-^m-a+b_x^n+c_x^-2_n-^p.txt

Test file number 46

Integral number in file 182

2.3.558 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{2 + x^3 + x^6} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(x^6+x^3+2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-
d_x-^m-a+b_x^n+c_x^-2_n-^p.txt

Test file number 46

Integral number in file 184

2.3.559 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{c}{x^2} + \frac{b}{x}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+c/x^2+b/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x-^m-a+b_x^n+c_x^-2_n-^p.txt

Test file number 46

Integral number in file 451

2.3.560 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{c}{x^2} + \frac{b}{x}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+c/x^2+b/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x-^m-a+b_x^n+c_x^-2_n-^p.txt

Test file number 46

Integral number in file 452

2.3.561 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b\sqrt{x} + cx}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+c*x+b*x^(1/2))^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x-^m-a+b_x^n+c_x^-2_n-^p.txt

Test file number 46

Integral number in file 459

2.3.562 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(df + efx)^2 (a + b(d + ex)^2 + c(d + ex)^4)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(e*f*x+d*f)^2/(a+b*(e*x+d)^2+c*(e*x+d)^4),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error index.cc index_gcd Error: Bad A
rgument ValueError index.cc index_gcd Error: Bad Argument ValueDone

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x-^m-a+b_x^n+c_x^-2_n-^p.txt

Test file number 46

Integral number in file 643

2.3.563 Giac [F(-2)]

Exception generated.

$$\int (d + ex^n)^3 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+e*x^n)^3*(a+c*x^(2*n))^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{96, [1,0,6,4,3,5,4,1,2]%%}+%%{480, [1,0,6,4,3,4,4,1,2]%%}+%%
%{960,
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 60

2.3.564 Giac [F(-2)]

Exception generated.

$$\int (d + ex^n)^2 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+e*x^n)^2*(a+c*x^(2*n))^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{64, [1,0,4,3,1,4,3,1,1]%%}+%%{256, [1,0,4,3,1,3,3,1,1]%%}+%%
%{384,
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 61

2.3.565 Giac [F(-2)]

Exception generated.

$$\int (d + ex^n)^3 (a + bx^n + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+e*x^n)^3*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{512, [1,0,7,4,9,5,1,8,0,3]}%%}+%%{-3072, [1,0,7,4,9,5,0,9,1,2]
%%}+%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 91

2.3.566 Giac [F(-2)]

Exception generated.

$$\int (d + ex^n)^2 (a + bx^n + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+e*x^n)^2*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-128, [1,0,5,3,6,4,1,6,0,2]}%%}+%%{512, [1,0,5,3,6,4,0,7,1,1]}%
%%}+%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 92

2.3.567 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^3 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(d+e*x^n)^3*(a+c*x^(2*n))^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{96, [1,0,6,4,0,3,5,4,1,2]%%}+%%{480, [1,0,6,4,0,3,4,4,1,2]%%
}+%%{
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-
f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt
```

Test file number 48

Integral number in file 87

2.3.568 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^2 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(d+e*x^n)^2*(a+c*x^(2*n))^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{64, [1,0,4,3,0,1,4,3,1,1]%%}+%%{256, [1,0,4,3,0,1,3,3,1,1]%%
}+%%{
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-
f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt
```

Test file number 48

Integral number in file 88

2.3.569 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{c} - 2\sqrt[3]{d}\sqrt[3]{x}}{c\sqrt[3]{d}x^{2/3} - c^{2/3}d^{2/3}x + \sqrt[3]{cd}x^{4/3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^(1/3)-2*d^(1/3)*x^(1/3))/(c*d^(1/3)*x^(2/3)-c^(2/3)*d^(2/3)*x+
c^(1/3)*d*x^(4/3)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{%%{%%{%%{1,[1]%%},0]:[1,0,0,%%{-1,[1]%%}}%%},[1]%%
},0):[
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 144

2.3.570 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^2 (a + bx^n + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(d+e*x^n)^2*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-128,[1,0,5,3,0,6,4,1,6,0,2]%%}+%%{512,[1,0,5,3,0,6,4,0,7,1
,1]%%
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 152

2.3.571 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^2 + bx^3 + cx^4}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^3+a*x^2)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-
d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 33

2.3.572 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^2 + bx^3 + cx^4}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^3+a*x^2)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-
d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 35

2.3.573 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^2 + bx^3 + cx^4}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^3+a*x^2)^(1/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^-m-a_x^q+b_x^n+c_x^-2_n-q-^p.txt

Test file number 50

Integral number in file 36

2.3.574 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^2 + bx^3 + cx^4}}{x^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^3+a*x^2)^(1/2)/x^6,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^-m-a_x^q+b_x^n+c_x^-2_n-q-^p.txt

Test file number 50

Integral number in file 37

2.3.575 Giac [F(-2)]

Exception generated.

$$\int \frac{(ax^2 + bx^3 + cx^4)^{3/2}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^3+a*x^2)^(3/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-
d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 43

2.3.576 Giac [F(-2)]

Exception generated.

$$\int \frac{(ax^2 + bx^3 + cx^4)^{3/2}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^3+a*x^2)^(3/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-
d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 44

2.3.577 Giac [F(-2)]

Exception generated.

$$\int \frac{(ax^2 + bx^3 + cx^4)^{3/2}}{x^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^3+a*x^2)^(3/2)/x^6,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 45

2.3.578 Giac [F(-2)]

Exception generated.

$$\int \frac{(ax^2 + bx^3 + cx^4)^{3/2}}{x^8} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^4+b*x^3+a*x^2)^(3/2)/x^8,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 47

2.3.579 Giac [F(-2)]

Exception generated.

$$\int \frac{(ax^2 + bx^3 + cx^4)^{3/2}}{x^9} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*x^4+b*x^3+a*x^2)^(3/2)/x^9,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 48

2.3.580 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{ax^2 + bx^3 + cx^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(c*x^4+b*x^3+a*x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-d_x^m-a_x^q+b_x^n+c_x^-2_n-q^p.txt

Test file number 50

Integral number in file 53

2.3.581 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{ax^2 + bx^3 + cx^4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^2/(c*x^4+b*x^3+a*x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-
d_x-^m-a_x^q+b_x^n+c_x^-2_n-q-^p.txt

Test file number 50

Integral number in file 54

2.3.582 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^3 + cx^5}}{x^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c*x^5+b*x^3+a*x)^(1/2)/x^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/1.2.4.2-
d_x-^m-a_x^q+b_x^n+c_x^-2_n-q-^p.txt

Test file number 50

Integral number in file 108

2.3.583 Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{a + bx + cx^2 + bx^3 + ax^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((D*x^3+C*x^2+B*x+A)/(a*x^4+b*x^3+c*x^2+b*x+a),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.1_Rational_functions.txt

Test file number 51

Integral number in file 227

2.3.584 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2^{2/3} - x)\sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Arg
ument
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 2

2.3.585 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%}
 %%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 3

2.3.586 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2^{2/3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(2^(2/3)+x)/(-x^3-1)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%}
 %%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 4

2.3.587 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 + \sqrt{3} + x) \sqrt{1 + x^3}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(1+x+3^(1/2))/(x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Value
```

```
input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt
```

```
Test file number 52
```

```
Integral number in file 10
```

2.3.588 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 + \sqrt{3} - x) \sqrt{1 - x^3}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(1-x+3^(1/2))/(-x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Value
```

```
input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt
```

```
Test file number 52
```

```
Integral number in file 11
```

2.3.589 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 + \sqrt{3} - x) \sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(1-x+3^(1/2))/(x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argum
ent Va
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 12

2.3.590 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 + \sqrt{3} + x) \sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(1+x+3^(1/2))/(-x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argum
ent Va
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 13

2.3.591 Giac [F(-2)]

Exception generated.

$$\int \frac{2^{2/3} - 2x}{(2^{2/3} + x)\sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2^(2/3)-2*x)/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad A
rgumen
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 43

2.3.592 Giac [F(-2)]

Exception generated.

$$\int \frac{2^{2/3} + 2x}{(2^{2/3} - x)\sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2^(2/3)+2*x)/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Arg
ument
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 44

2.3.593 Giac [F(-2)]

Exception generated.

$$\int \frac{2^{2/3} + 2x}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2^(2/3)+2*x)/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%%{1,[2]%%}% / %%%{%%{[2,0]:[1,0,0,-2]%%},[2]%%}% Error: Bad Arg
ument
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 45

2.3.594 Giac [F(-2)]

Exception generated.

$$\int \frac{2^{2/3} - 2x}{(2^{2/3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2^(2/3)-2*x)/(2^(2/3)+x)/(-x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%%{1,[1]%%}% / %%%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%}% Error: Bad A
rgumen
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 46

2.3.595 Giac [F(-2)]

Exception generated.

$$\int \frac{2+3x}{(2^{2/3}+x)\sqrt{1+x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate((2+3*x)/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argument

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 52

2.3.596 Giac [F(-2)]

Exception generated.

$$\int \frac{2+3x}{(2^{2/3}-x)\sqrt{1-x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate((2+3*x)/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 53

2.3.597 Giac [F(-2)]

Exception generated.

$$\int \frac{2+3x}{(2^{2/3}-x)\sqrt{-1+x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((2+3*x)/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad A
rgumen
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 54

2.3.598 Giac [F(-2)]

Exception generated.

$$\int \frac{e+fx}{(2^{2/3}+x)\sqrt{1+x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad A
rgumen
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 56

2.3.599 Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(2^{2/3} - x)\sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Arg
ument

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 57

2.3.600 Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Arg
ument

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 58

2.3.601 Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(2^{2/3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)/(2^(2/3)+x)/(-x^3-1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argument

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 59

2.3.602 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(2^{2/3} + x)\sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argument

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 65

2.3.603 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(2^{2/3} - x)\sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 66

2.3.604 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argument

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 67

2.3.605 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + x}{(1 - \sqrt{3} + x) \sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+x+3^(1/2))/(1+x-3^(1/2))/(x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%{[-1,-1]:[1,0,-3]%%},[2]%%} / %%{%{[-2,4]:[1,0,-3]%%},[2]
]%%}
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 101

2.3.606 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - x}{(1 - \sqrt{3} - x) \sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-x+3^(1/2))/(1-x-3^(1/2))/(-x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%{[1,1]:[1,0,-3]%%},[2]%%} / %%{%{[-2,4]:[1,0,-3]%%},[2]
%%} Er
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 102

2.3.607 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - x}{(1 - \sqrt{3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-x+3^(1/2))/(1-x-3^(1/2))/(x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[1,1]:[1,0,-3]%%},[2]%%} / %%{%%{[-2,4]:[1,0,-3]%%},[2]%%}
%%} Er
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 103

2.3.608 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + x}{(1 - \sqrt{3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+x+3^(1/2))/(1+x-3^(1/2))/(-x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[-1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[-2,4]:[1,0,-3]%%},[2]%%}
%%}
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 104

2.3.609 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\left(1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x\right) \sqrt{a + bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(b/a)^(1/3)*x+3^(1/2))/(1+(b/a)^(1/3)*x-3^(1/2))/(b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 109

2.3.610 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\left(1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x\right) \sqrt{a - bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-(b/a)^(1/3)*x+3^(1/2))/(1-(b/a)^(1/3)*x-3^(1/2))/(-b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 110

2.3.611 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\left(1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x\right) \sqrt{-a + bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-(b/a)^(1/3)*x+3^(1/2))/(1-(b/a)^(1/3)*x-3^(1/2))/(b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 111

2.3.612 Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\left(1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x\right) \sqrt{-a - bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(b/a)^(1/3)*x+3^(1/2))/(1+(b/a)^(1/3)*x-3^(1/2))/(-b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 112

2.3.613 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + x}{(1 + \sqrt{3} + x) \sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+x-3^(1/2))/(1+x+3^(1/2))/(x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%}
%%} Er
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 113

2.3.614 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - x}{(1 + \sqrt{3} - x) \sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-x-3^(1/2))/(1-x+3^(1/2))/(-x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%}
%%} Er
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 114

2.3.615 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - x}{(1 + \sqrt{3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-x-3^(1/2))/(1-x+3^(1/2))/(x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%}
%%} Er
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 115

2.3.616 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + x}{(1 + \sqrt{3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+x-3^(1/2))/(1+x+3^(1/2))/(-x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%}
%%} Er
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 116

2.3.617 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\left(1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x\right) \sqrt{a + bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(b/a)^(1/3)*x-3^(1/2))/(1+(b/a)^(1/3)*x+3^(1/2))/(b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 121

2.3.618 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\left(1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x\right) \sqrt{a - bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-(b/a)^(1/3)*x-3^(1/2))/(1-(b/a)^(1/3)*x+3^(1/2))/(-b*x^3+a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 122

2.3.619 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\left(1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x\right) \sqrt{-a + bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1-(b/a)^(1/3)*x-3^(1/2))/(1-(b/a)^(1/3)*x+3^(1/2))/(b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 123

2.3.620 Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\left(1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x\right) \sqrt{-a - bx^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(b/a)^(1/3)*x-3^(1/2))/(1+(b/a)^(1/3)*x+3^(1/2))/(-b*x^3-a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 124

2.3.621 Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 + \sqrt{3} + x) \sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)/(1+x+3^(1/2))/(x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argum
ent Va
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 127

2.3.622 Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 + \sqrt{3} - x) \sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)/(1-x+3^(1/2))/(-x^3+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argum
ent Va
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 128

2.3.623 Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 + \sqrt{3} - x) \sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)/(1-x+3^(1/2))/(x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argum
ent Va
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 129

2.3.624 Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 + \sqrt{3} + x) \sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)/(1+x+3^(1/2))/(-x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argum
ent Va
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 130

2.3.625 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + \sqrt{3} - x) \sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(1-x+3^(1/2))/(x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argum
ent Va
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 137

2.3.626 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + \sqrt{3} + x) \sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(1+x+3^(1/2))/(-x^3-1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argum
ent Va
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 138

2.3.627 Giac [F(-2)]

Exception generated.

$$\int x^2(a+bx)^n(c+dx^3)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*(b*x+a)^n*(d*x^3+c)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 182

2.3.628 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(a+bx^2)}{c+dx^2}}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 266

2.3.629 Giac [F(-2)]

Exception generated.

$$\int x^5 \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [0,5,0]%%}, [2,0,0,0]%%}+%%{%%{[%%{-4, [0,4,0]%%},0]
: [1,0,
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 276

2.3.630 Giac [F(-2)]

Exception generated.

$$\int x^3 \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [0,4,0]%%}, [2,0,0,0]%%}+%%{%%{[%%{-4, [0,3,0]%%},0]
: [1,0,
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 277

2.3.631 Giac [F(-2)]

Exception generated.

$$\int x \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%}{2, [0,3,0]%%}, [2,0,0,0]%%}+%%{%%{[%%{-4, [0,2,0]%%},0]
: [1,0,
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 278

2.3.632 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 279

2.3.633 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [0, 1, 0]%%}, [6, 0, 0]%%}+%%{%%{[-4, 0] : [1, 0, %%{-1, [1, 1,
1]%%}}
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 280

2.3.634 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [4, 1, 4]%%}, [2, 7, 0]%%}+%%{%%{-8, [3, 2, 4]%%}, [2, 6, 1]%%
%%}+%%
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 281

2.3.635 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^7} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^7,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [5, 1, 5]%%}, [2, 9, 0]%%}+%%{-10, [4, 2, 5]%%}, [2, 8, 1
%%}+%

```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 282

2.3.636 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 299

2.3.637 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\left(\frac{e(ax^2+b)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [1,0,0]%%}, [2,1,0]%%}+%%{%%{[-4,0]: [1,0,%%{-1, [1,1,
1]%%}}
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 307

2.3.638 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\left(\frac{e(ax^2+b)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [1,0,0]%%}, [2,1,0]%%}+%%{%%{[-4,0]: [1,0,%%{-1, [1,1,
1]%%}}
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 308

2.3.639 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [1,0,0]%%}, [2,1,0]%%}+%%{%%{-4,0]: [1,0,%%{-1, [1,1,
1]%%}}
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 309

2.3.640 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [1,2,2]%%}, [2,1,3,0]%%}+%%{%%{-4, [2,1,2]%%}, [2,1,2
,1]%%}
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 310

2.3.641 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [1,0,0]%%}, [6,1,0,0]%%}+%%{%%{-4,0]: [1,0,%%{-1, [1,
1,1]%%
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 311

2.3.642 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^5/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2, [1,4,4]%%}, [2,1,7,0]%%}+%%{%%{-8, [2,3,4]%%}, [2,1,6
,1]%%
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 312

2.3.643 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{c+dx^2}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/(d*x^2+c))^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 321

2.3.644 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{c+dx^2}\right)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b/(d*x^2+c))^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 334

2.3.645 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{a + \frac{b}{c+dx^2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a+b/(d*x^2+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 347

2.3.646 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\left(a + \frac{b}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a+b/(d*x^2+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 357

2.3.647 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(a + \frac{b}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a+b/(d*x^2+c))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 358

2.3.648 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{a}{x^{17}}}}{\sqrt{1+x^5}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a/x^17)^(1/2)/(x^5+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 370

2.3.649 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{ac + bcx^2 + d\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/(a*c+b*c*x^2+d*(b*x^2+a)^(1/2)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 549

2.3.650 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{b - \frac{a}{x}} x^m}{\sqrt{a - bx}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(b-a/x)^(1/2)/(-b*x+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 581

2.3.651 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{b - \frac{a}{x^2}}}{\sqrt{a - bx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((b-a/x^2)^(1/2)/(-b*x^2+a)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 598

2.3.652 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{c}{x^2}}}{d + ex} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+c/x^2)^(1/2)/(e*x+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 920

2.3.653 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{c}{x^2} + \frac{b}{x}}}{d + ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+c/x^2+b/x)^(1/2)/(e*x+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 921

2.3.654 Giac [F(-2)]

Exception generated.

$$\int F^{c(ax)} x^2 \log^n(dx) (e + en + e(3 + bcx \log(F)) \log(dx)) dx$$

= Exception raised: RuntimeError

```
[In] integrate(F^(c*(b*x+a))*x^2*log(d*x)^n*(e+e*n+e*(3+b*c*x*log(F))*log(d*x)),
x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2
,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%{1
,[0,3,0,0
```

input file name 2_Exponentials/2.1_u-F^-c-a+b_x-^n.txt

Test file number 53

Integral number in file 84

2.3.655 Giac [F(-2)]

Exception generated.

$$\int F^{c(a+bx)} x \log^n(dx) (e + en + e(2 + bcx \log(F)) \log(dx)) dx$$

= Exception raised: RuntimeError

```
[In] integrate(F^(c*(b*x+a))*x*log(d*x)^n*(e+e*n+e*(2+b*c*x*log(F))*log(d*x)),x,
algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2
,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%{1
,[0,3,0,0
```

input file name 2_Exponentials/2.1_u-F^{-c-a+b}_x⁻ⁿ.txt

Test file number 53

Integral number in file 85

2.3.656 Giac [F(-2)]

Exception generated.

$$\int F^{c(a+bx)} \log^n(dx) (e + en + e(1 + bcx \log(F)) \log(dx)) dx$$

= Exception raised: RuntimeError

```
[In] integrate(F^(c*(b*x+a))*log(d*x)^n*(e+e*n+e*(1+b*c*x*log(F))*log(d*x)),x, a
lgorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2
,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%{1
,[0,3,0,0
```

input file name 2_Exponentials/2.1_u-F^{-c-a+b}_x⁻ⁿ.txt

Test file number 53

Integral number in file 86

2.3.657 Giac [F(-2)]

Exception generated.

$$\int \frac{F^{c(a+bx)} \log^n(dx) (e + en + bcex \log(F) \log(dx))}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(F^(c*(b*x+a))*log(d*x)^n*(e+e*n+b*c*e*x*log(F)*log(d*x))/x,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%{1,[0,3,0,0
```

input file name 2_Exponentials/2.1_u-F^{-c-a+b}_x⁻ⁿ.txt

Test file number 53

Integral number in file 87

2.3.658 Giac [F(-2)]

Exception generated.

$$\int \frac{F^{c(a+bx)} \log^n(dx) (e + en + e(-1 + bcx \log(F)) \log(dx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(F^(c*(b*x+a))*log(d*x)^n*(e+e*n+e*(-1+b*c*x*log(F))*log(d*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%{1,[0,3,0,0
```

input file name 2_Exponentials/2.1_u-F^{-c-a+b}_x⁻ⁿ.txt

Test file number 53

Integral number in file 88

2.3.659 Giac [F(-2)]

Exception generated.

$$\int f^{a+bx^3} x^{17} dx = \text{Exception raised: TypeError}$$

[In] integrate(f^(b*x^3+a)*x^17,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 96

2.3.660 Giac [F(-2)]

Exception generated.

$$\int F^{a+b(c+dx)^3} (c+dx)^{17} dx = \text{Exception raised: TypeError}$$

[In] integrate(F^(a+b*(d*x+c)^3)*(d*x+c)^17,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 281

2.3.661 Giac [F(-2)]

Exception generated.

$$\int F^{a+b(c+dx)^3} (c+dx)^{14} dx = \text{Exception raised: TypeError}$$

[In] integrate(F^(a+b*(d*x+c)^3)*(d*x+c)^14,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value

input file name 2_Exponentials/2.3_Exponential_functions.txt

Test file number 55

Integral number in file 282

2.3.662 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m \log(cx^n)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((b*x+a)^m*log(c*x^n)/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1
,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value

input file name 3_Logarithms/3.1.4-f_x^-m-d+e_x^r-q-a+b_log-c_x^n-p.txt

Test file number 57

Integral number in file 170

2.3.663 Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \log(cx^n)) \log\left(d\left(\frac{1}{d} + fx^2\right)\right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+b*log(c*x^n))*log(d*(1/d+f*x^2)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 24

2.3.664 Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \log(cx^n))^2 \log\left(d\left(\frac{1}{d} + fx^2\right)\right) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+b*log(c*x^n))^2*log(d*(1/d+f*x^2)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 32

2.3.665 Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \log(cx^n))^3 \log\left(d\left(\frac{1}{d} + fx^2\right)\right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*log(c*x^n))^3*log(d*(1/d+f*x^2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 40

2.3.666 Giac [F(-2)]

Exception generated.

$$\int (gx)^m (a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x)^m*(a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2
,2,2,0,2,0,0]%%}+%%{2,[0,2,2,2,0,1,0,0]%%}+%%{1,[0,2,2,2,0,0,0,0]%%}+%
%%{1,[0,2
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 178

2.3.667 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) \operatorname{arcsinh}(ax) \log(cx^n) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)*arcsinh(a*x)*log(c*x^n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 190

2.3.668 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) \operatorname{arccosh}(ax) \log(cx^n) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)*arccosh(a*x)*log(c*x^n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 191

2.3.669 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) \operatorname{arcsinh}(ax)^2 \log(cx^n) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)*arcsinh(a*x)^2*log(c*x^n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 196

2.3.670 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) \operatorname{arccosh}(ax)^2 \log(cx^n) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x^2+d)*arccosh(a*x)^2*log(c*x^n),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt

Test file number 58

Integral number in file 197

2.3.671 Giac [F(-2)]

Exception generated.

$$\int (ag + bgx)^m (ci + dix)^{-2-m} (A + B \log(e(a + bx)^n (c + dx)^{-n}))^p dx$$

= Exception raised: RuntimeError

```
[In] integrate((b*g*x+a*g)^(m*(d*i*x+c*i)^(-2-m)*(A+B*log(e*(b*x+a)^n/((d*x+c)^n))
))^p,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0
,5,5,0,2,2,3,3,0,0,0,2]%%}+%%{-2,[0,0,5,4,1,3,1,3,3,0,0,0,2]%%}+%%{1,[0
,0,5,3,2,
```

input file name 3_Logarithms/3.2.2-f+g_x^-m-h+i_x^-q-A+B_log-e-a+b_x-over-c+d_x-
^-n^-p.txt

Test file number 60

Integral number in file 226

2.3.672 Giac [F(-2)]

Exception generated.

$$\int (ag + bgx)^{-2-m} (ci + dix)^m (A + B \log(e(a + bx)^n (c + dx)^{-n}))^p dx$$

= Exception raised: RuntimeError

```
[In] integrate((b*g*x+a*g)^(-2-m)*(d*i*x+c*i)^m*(A+B*log(e*(b*x+a)^n/((d*x+c)^n)
))^p,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0
,5,5,0,2,2,3,3,0,0,0,2]%%}+%%{-2,[0,0,5,4,1,3,1,3,3,0,0,0,2]%%}+%%{1,[0
,0,5,3,2,
```

input file name 3_Logarithms/3.2.2-f+g_x^-m-h+i_x^-q-A+B_log-e-a+b_x-over-c+d_x-
^-n^-p.txt

Test file number 60

Integral number in file 227

2.3.673 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^m (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^m*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,7,4,0,5,0,3,5,0,0,0]%%}+%%{5,[0,0,6,4,0,4,1,3,5,0,0,0]%%}+%%{2,[0,0,6,3,1,5,0,3

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 169

2.3.674 Giac [F(-2)]

Exception generated.

$$\int \frac{(h + ix)^q (a + b \log(c(e + fx)))^p}{de + dfx} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((i*x+h)^q*(a+b*log(c*(f*x+e)))^p/(d*f*x+d*e),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,5,0,2,0,5,0,3,0,2,0]%%}+%%{5,[0,0,4,0,2,0,4,1,3,0,2,0]%%}+%%{10,[0,0,3,0,2,0,3,

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 209

2.3.675 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(e + fx)))^p}{(de + dfx)(h + ix)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*log(c*(f*x+e)))^p/(d*f*x+d*e)/(i*x+h)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,1,0,0,0,0]%%} / %%{1,[0,0,1,1,1,0,0]%%}+%%{-1,[0,0
,0,1,0
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 215

2.3.676 Giac [F(-2)]

Exception generated.

$$\int (g + hx)^m (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((h*x+g)^m*(a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0
,7,4,0,5,0,3,3,3,0,2,0,0,0]%%}+%%{5,[0,0,6,4,0,4,1,3,3,3,0,2,0,0,0]%%}+
%%{2,[0,0
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 513

2.3.677 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^m \log(c(d + ex^n)^p) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^m*log(c*(d+e*x^n)^p),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,
0,6,3,6,0,2,2,0,1,0]%%}+%%{1,[0,0,6,2,6,1,2,2,0,0,1]%%}+%%{1,[0,0,6,2,6
,0,2,2,0,
```

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txt

Test file number 63

Integral number in file 211

2.3.678 Giac [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0
,2,5,2,0,5,0,2,1,2,2]%%}+%%{-2,[0,0,2,4,2,1,5,0,1,1,2,2]%%}+%%{5,[0,0,2
,4,2,0,4,
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 1

2.3.679 Giac [F(-2)]

Exception generated.

$$\int \frac{(amx^m + bnq \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^p}{x} dx$$

= Exception raised: RuntimeError

[In] integrate((a*m*x^m+b*n*q*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,5,2,0,5,0,3,1,2,3]%%}+%%{-2,[0,0,2,4,2,1,5,0,2,1,2,3]%%}+%%{5,[0,0,2,4,2,0,4,

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 16

2.3.680 Giac [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,5,2,0,5,0,2,1,2,2,1]%%}+%%{-2,[0,0,2,4,2,1,5,0,1,1,2,2,1]%%}+%%{5,[0,0,2,4,2,

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 30

2.3.681 Giac [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x(\sqrt{d}\sqrt{-e+ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(log(2*x*(e*x+d^(1/2))*(-e)^(1/2))/(e*x^2+d))/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 44

2.3.682 Giac [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x(\sqrt{d}\sqrt{-e-ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(log(-2*x*(-e*x+d^(1/2))*(-e)^(1/2))/(e*x^2+d))/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 45

2.3.683 Giac [F(-2)]

Exception generated.

$$\int \frac{\log\left(-1 + 4x + 4\sqrt{(-1+x)x}\right)}{x^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(log(-1+4*x+4*((-1+x)*x)^(1/2))/x^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 2*(2*sqrt(2)*atan(4*sqrt(sageVARx)/sqrt(2))-2*(-2*(1/2*pi*sign(-sqrt(sageVARx)+sqrt(sageVARx-1))+atan(1/2*((-sqrt(sageVARx)+sqrt(sageVARx-1))^2-1)/(-sqrt(sageVARx)+sqrt(sa
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 111

2.3.684 Giac [F(-2)]

Exception generated.

$$\int \cos(a + bx) \log\left(\cos\left(\frac{a}{2} + \frac{bx}{2}\right) \sin\left(\frac{a}{2} + \frac{bx}{2}\right)\right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(b*x+a)*log(cos(1/2*a+1/2*b*x)*sin(1/2*a+1/2*b*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 185

2.3.685 Giac [F(-2)]

Exception generated.

$$\int (ce + dex)^{4/3} \sin(a + b(c + dx)^{2/3}) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^(4/3)*sin(a+b*(d*x+c)^(2/3)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_x^n-p.txt
```

```
Test file number 69
```

```
Integral number in file 235
```

2.3.686 Giac [F(-2)]

Exception generated.

$$\int (ce + dex)^{2/3} \sin(a + b(c + dx)^{2/3}) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^(2/3)*sin(a+b*(d*x+c)^(2/3)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_x^n-p.txt
```

```
Test file number 69
```

```
Integral number in file 236
```

2.3.687 Giac [F(-2)]

Exception generated.

$$\int \sqrt[3]{ce + dex} \sin(a + b(c + dx)^{2/3}) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^(1/3)*sin(a+b*(d*x+c)^(2/3)),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_xⁿ-^p.txt

Test file number 69

Integral number in file 237

2.3.688 Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(a + b(c + dx)^{2/3})}{\sqrt[3]{ce + dex}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sin(a+b*(d*x+c)^(2/3))/(d*e*x+c*e)^(1/3),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_xⁿ-^p.txt

Test file number 69

Integral number in file 238

2.3.689 Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(a + b(c + dx)^{2/3})}{(ce + dex)^{2/3}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sin(a+b*(d*x+c)^(2/3))/(d*e*x+c*e)^(2/3),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_xⁿ-^p.txt

Test file number 69

Integral number in file 239

2.3.690 Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(a + b(c + dx)^{2/3})}{(ce + dex)^{4/3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(a+b*(d*x+c)^(2/3))/(d*e*x+c*e)^(4/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_x^n-p.txt
```

```
Test file number 69
```

```
Integral number in file 240
```

2.3.691 Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(a + b(c + dx)^{2/3})}{(ce + dex)^{5/3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(a+b*(d*x+c)^(2/3))/(d*e*x+c*e)^(5/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^m-a+b_sin-c+d_x^n-p.txt
```

```
Test file number 69
```

```
Integral number in file 241
```

2.3.692 Giac [F(-2)]

Exception generated.

$$\int (ce + dex)^{4/3} \sin\left(a + \frac{b}{(c + dx)^{2/3}}\right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*e*x+c*e)^(4/3)*sin(a+b/(d*x+c)^(2/3)),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,6,1,0,0,0]%%}+%%{-2,[0,3,1,1,1,0]%%}+%%{1,[0,0,1,2,2,0]%%}

input file name 4_Trig_functions/4.1_Sine/4.1.12-e_x^{-m}-a+b_sin-c+d_xⁿ-^p.txt

Test file number 69

Integral number in file 249

2.3.693 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c+dx)}{\sqrt{a+a\sin(c+dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sec(d*x+c)^2/(a+a*sin(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.12-g_cos^{-p}-a+b_sin^{-m}.txt

Test file number 70

Integral number in file 164

2.3.694 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e\cos(c+dx)}}{\sqrt{a+a\sin(c+dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*cos(d*x+c))^(1/2)/(a+a*sin(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.12-g_cos^{-p}-a+b_sin^{-m}.txt

Test file number 70

Integral number in file 300

2.3.695 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + a \sin(e + fx)} \tan^4(e + fx) dx = \text{Exception raised: TypeError}$$

[In] integrate((a+a*sin(f*x+e))^(1/2)*tan(f*x+e)^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 4_Trig_functions/4.1_Sine/4.1.1.3-g_tan-[^]p-a+b_sin-[^]m.txt

Test file number 72

Integral number in file 91

2.3.696 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\sin(c + dx)} \sqrt{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(sin(d*x+c)^(1/2)*(a+b*sin(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0,0
]ext_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0,0]e
xt_red

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 211

2.3.697 Giac [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^3}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error index.cc index_gcd Error: Bad A
 rgument Value

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-ⁿ.txt

Test file number 73

Integral number in file 314

2.3.698 Giac [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^3}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(11/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error index.cc index_gcd Error: Bad A
 rgument Value

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-ⁿ.txt

Test file number 73

Integral number in file 316

2.3.699 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3+3\sin(e+fx)}\sqrt{c-c\sin(e+fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 386

2.3.700 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3+3\sin(e+fx))^{3/2}(c-c\sin(e+fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txt

Test file number 73

Integral number in file 394

2.3.701 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))^{5/2} (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 403

2.3.702 Giac [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^m}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^m/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,1,0,0,0,0]} / %%{16,[0,0,0,1,1,1,1]} Error: Bad
Argum
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 73

Integral number in file 415

2.3.703 Giac [F(-2)]

Exception generated.

$$\int \frac{(3 + 3 \sin(e + fx))^m}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^m/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error index.cc index_gcd Error: Bad A
rgument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-ⁿ.txt

Test file number 73

Integral number in file 416

2.3.704 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 3 \sin(e + fx))^{3/2}(c + d \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+a*sin(f*x+e))^(3/2)/(c+d*sin(f*x+e))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{%%{[-384,0]:[1,0,-2]%%},[0]%%},0]:[1,0,%%{-1,[1]%%
}}%%},
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-ⁿ.txt

Test file number 73

Integral number in file 555

2.3.705 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)}{(a + a \sin(e + fx))^{3/2}(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(f*x+e)^2/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 55

2.3.706 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)}{(a + a \sin(e + fx))^{5/2}(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(f*x+e)^2/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 64

2.3.707 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^m}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^m/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error index.cc index_gcd Error: Bad A
rgument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 78

2.3.708 Giac [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{3/2}}{\sqrt{a + a \sin(e + fx)} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*cos(f*x+e))^(3/2)/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 130

2.3.709 Giac [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{3/2}}{\sqrt{a + a \sin(e + fx)}(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*cos(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(3/2)/(a+a*sin(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[-2692572175765579235328,0]:[1,0,%%{-1,[1]%%}]%%},[2]%
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 131

2.3.710 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^3(c + dx)}{\sqrt{a + a \sin(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^4*csc(d*x+c)^3/(a+a*sin(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[37748736,0]:[1,0,-2]%%},[1]%%},0]:[1,0,%%{-1,[1]%%}]%%}
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 468

2.3.711 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c+dx) \sin^n(c+dx)}{a+a \sin(c+dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^5*sin(d*x+c)^n/(a+a*sin(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0, 1, 3, 0, 0]%%}+%%{-1, [0, 1, 2, 0, 0]%%}+%%{-1, [0, 1, 1, 0, 0]%%
}%+%%%
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 568

2.3.712 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c+dx) \sin^n(c+dx)}{(a+a \sin(c+dx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^5*sin(d*x+c)^n/(a+a*sin(d*x+c))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0, 1, 2, 0, 0]%%}+%%{-2, [0, 1, 1, 0, 0]%%}+%%{1, [0, 1, 0, 0, 0]%%
} / %%
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 569

2.3.713 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^7(c+dx) \sin^n(c+dx)}{a+a \sin(c+dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^7*sin(d*x+c)^n/(a+a*sin(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [0,1,5,0,0]%%}+%%{1, [0,1,4,0,0]%%}+%%{2, [0,1,3,0,0]%%
}+%%{
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 700

2.3.714 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^7(c+dx) \sin^n(c+dx)}{(a+a \sin(c+dx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^7*sin(d*x+c)^n/(a+a*sin(d*x+c))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [0,1,4,0,0]%%}+%%{2, [0,1,3,0,0]%%}+%%{-2, [0,1,1,0,0]%%
}+%%
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 701

2.3.715 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^7(c + dx) \sin^n(c + dx)}{(a + a \sin(c + dx))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(cos(d*x+c)^7*sin(d*x+c)^n/(a+a*sin(d*x+c))^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [0,1,3,0,0]%%}+%%{3, [0,1,2,0,0]%%}+%%{-3, [0,1,1,0,0]%%}+%%%

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74

Integral number in file 702

2.3.716 Giac [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{\sqrt{a + a \sin(e + fx)} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/sin(f*x+e)/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.2.3-g_sin^p-a+b_sin^m-c+d_sin^n.txt

Test file number 75

Integral number in file 22

2.3.717 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{g \sin(e + fx)} \sqrt{a + a \sin(e + fx)} (c + d \sin(e + fx))} dx$$

= Exception raised: TypeError

```
[In] integrate(1/(c+d*sin(f*x+e))/(g*sin(f*x+e))^(1/2)/(a+a*sin(f*x+e))^(1/2),x,
algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Valueindex.cc index_m operator + Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.1_Sine/4.1.2.3-g_sin-[^]p-a+b_sin-[^]m-c+d_sin-[^]n.txt

Test file number 75

Integral number in file 28

2.3.718 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^(5/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x,
algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error index.cc index_gcd Error: Bad A
rgument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-[^]m-c+d_sin-[^]n-A+B_sin-[^].txt

Test file number 76

Integral number in file 154

2.3.719 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{\sqrt{a + a \sin(e + fx)} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2)/(a+a*sin(f*x+e))^(1/2),x,
algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-[^]m-c+d_sin-[^]n-A+B_sin-.txt

Test file number 76

Integral number in file 177

2.3.720 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{3/2} (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(3/2),x,
algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-[^]m-c+d_sin-[^]n-A+B_sin-.txt

Test file number 76

Integral number in file 185

2.3.721 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{5/2} (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(5/2),x,
algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-[^]m-c+d_sin-[^]n-A+B_sin-
.txt

Test file number 76

Integral number in file 194

2.3.722 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x, alg
orithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0,1,1,1,0,0,0,0,0]}+%%{1, [0,0,1,1,1,0,0,0,0]} / %%
{16, [0
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-[^]m-c+d_sin-[^]n-A+B_sin-
.txt

Test file number 76

Integral number in file 209

2.3.723 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error index.cc index_gcd Error: Bad A
rgument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-[^]m-c+d_sin-[^]n-A+B_sin-
.txt

Test file number 76

Integral number in file 210

2.3.724 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2),x, algor
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%}{%%{%}{[268435456,0]:[1,0,-2]%%},[2]%%},0]:[1,0,%%{-1,[
1]%%}
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-[^]m-c+d_sin-[^]n-A+B_sin-
.txt

Test file number 76

Integral number in file 316

2.3.725 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + C \sin^2(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^m*(A+C*sin(f*x+e)^2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,1,1,1,0,0,0,0,0]%%}+%%{1, [0,0,1,1,1,0,0,0,0]%%} / %%{16, [0
```

input file name 4_Trig_functions/4.1_Sine/4.1.4.2-a+b_sin-^m-c+d_sin-^n-A+B_sin+C_sin^2-.txt

Test file number 78

Integral number in file 5

2.3.726 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + C \sin^2(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^m*(A+C*sin(f*x+e)^2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error index.cc index_gcd Error: Bad Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.4.2-a+b_sin-^m-c+d_sin-^n-A+B_sin+C_sin^2-.txt

Test file number 78

Integral number in file 6

2.3.727 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx) + C \sin^2(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e)+C*sin(f*x+e)^2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0,1,1,1,0,0,0,0,0,0]}+%%{1, [0,0,1,1,1,0,0,0,0,0]}+%
%%{1, [
```

input file name 4_Trig_functions/4.1_Sine/4.1.4.2-a+b_sin-^m-c+d_sin-^n-A+B_sin+C_sin^2-.txt

Test file number 78

Integral number in file 22

2.3.728 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx) + C \sin^2(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e)+C*sin(f*x+e)^2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error index.cc index_gcd Error: Bad A
rgument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.4.2-a+b_sin-^m-c+d_sin-^n-A+B_sin+C_sin^2-.txt

Test file number 78

Integral number in file 23

2.3.729 Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) \sqrt{a + b \sin^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)*(a+b*sin(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt
```

```
Test file number 79
```

```
Integral number in file 124
```

2.3.730 Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) (a + b \sin^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)*(a+b*sin(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt
```

```
Test file number 79
```

```
Integral number in file 134
```

2.3.731 Giac [F(-2)]

Exception generated.

$$\int \csc^3(e + fx) (a + b \sin^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)^3*(a+b*sin(f*x+e)^2)^(3/2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 135

2.3.732 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 471

2.3.733 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)^3/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
 d Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 472

2.3.734 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)^2/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 475

2.3.735 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^4(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)^4/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 476

2.3.736 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^6(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)^6/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Bad
Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 477

2.3.737 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-ⁿ-^p.txt

Test file number 79

Integral number in file 481

2.3.738 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)^3/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt

Test file number 79

Integral number in file 482

2.3.739 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)^2/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-^m-a+b-c_sin-^n-^p.txt

Test file number 79

Integral number in file 484

2.3.740 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^4(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)^4/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Bad
Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 485

2.3.741 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^6(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(f*x+e)^6/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Bad
Argument Value

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 486

2.3.742 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^8(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(f*x+e)^8/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 487

2.3.743 Giac [F(-2)]

Exception generated.

$$\int (a + b \sin^2(e + fx))^{3/2} \tan^3(e + fx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sin(f*x+e)^2)^(3/2)*tan(f*x+e)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type
```

input file name 4_Trig_functions/4.1_Sine/4.1.7-d_trig-[^]m-a+b-c_sin-[^]n-[^]p.txt

Test file number 79

Integral number in file 500

2.3.744 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(d*x+c)^2/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```


[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 128

2.3.745 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c+dx)}{\sqrt{a+a\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sec(d*x+c)^3/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 129

2.3.746 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c+dx)}{\sqrt{a+a\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sec(d*x+c)^4/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-[^]m-c+d_cos-[^]n.txt

Test file number 89

Integral number in file 130

2.3.747 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sec(d*x+c)^2/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 137

2.3.748 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 138

2.3.749 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sec(d*x+c)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 144

2.3.750 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos-^m-c+d_cos-^n.txt

Test file number 89

Integral number in file 145

2.3.751 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^m(c + dx)}{a + a \cos(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(cos(d*x+c)^m/(a+a*cos(d*x+c)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{2,[0,0,1]%%} Error: Bad Argument Value

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 401

2.3.752 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^m(c + dx)}{(a + a \cos(c + dx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(cos(d*x+c)^m/(a+a*cos(d*x+c))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0]%%}+%%{1,[0,1,0,0]%%} / %%{4,[0,0,0,2]%%} Error: Ba

input file name 4_Trig_functions/4.2_Cosine/4.2.2.1-a+b_cos^m-c+d_cos^n.txt

Test file number 89

Integral number in file 402

2.3.753 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c+dx)(A+B\cos(c+dx))}{(a+a\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^4*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[-27222589353675077077069968594541456916480,0]:[1,0,-2]%
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 107

2.3.754 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c+dx)(A+B\cos(c+dx))}{(a+a\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[2475880078570760549798248448,0]:[1,0,-2]%%},[10]%%},0]
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos^m-c+d_cos^n-A+B_cos.txt

Test file number 92

Integral number in file 108

2.3.755 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{%%{[-54043195528445952,0]:[1,0,-2]%%},[6]%%},0]:[1,0
,%%{-
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-
.txt

Test file number 92

Integral number in file 109

2.3.756 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{%%{[268435456,0]:[1,0,-2]%%},[2]%%},0]:[1,0,%%{-1,[
1]%%}}
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-
.txt

Test file number 92

Integral number in file 110

2.3.757 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 113

2.3.758 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-.txt

Test file number 92

Integral number in file 122

2.3.759 Giac [F(-2)]

Exception generated.

$$\int \frac{(c \cos(e + fx))^m (A + B \cos(e + fx))}{a + b \cos(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c*cos(f*x+e))^m*(A+B*cos(f*x+e))/(a+b*cos(f*x+e)),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [0,1,0,0]%%} / %%{1, [0,0,1,0]%%}+%%{-1, [0,0,0,1]%%} E
rror:
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-
.txt

Test file number 92

Integral number in file 454

2.3.760 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(e + fx))(c \sec(e + fx))^m}{a + b \cos(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*cos(f*x+e))*(c*sec(f*x+e))^m/(a+b*cos(f*x+e)),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [0,1,0,0]%%} / %%{1, [0,0,1,0]%%}+%%{-1, [0,0,0,1]%%} E
rror:
```

input file name 4_Trig_functions/4.2_Cosine/4.2.3.1-a+b_cos-[^]m-c+d_cos-[^]n-A+B_cos-
.txt

Test file number 92

Integral number in file 640

2.3.761 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 107

2.3.762 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 109

2.3.763 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{[%%{%%{[-27222589353675077077069968594541456916480,0]:[1,0,-2]%
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 111

2.3.764 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{[%%{%%{[2475880078570760549798248448,0]:[1,0,-2]%%},[10]%%},0]
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 112

2.3.765 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c+dx)(A+C\cos^2(c+dx))}{(a+a\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{[-54043195528445952,0]:[1,0,-2]%%},[6]%%},0):[1,0,%%{-
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 113

2.3.766 Giac [F(-2)]

Exception generated.

$$\int \frac{(A+C\cos^2(c+dx))\sec^2(c+dx)}{(a+a\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos-^m-c+d_cos-^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 116

2.3.767 Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 125

2.3.768 Giac [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding
error%%{%%{[%%{%%{[268435456,0]:[1,0,-2]%%},[2]%%},0]:[1,0,%%{-1,[1]%%}}
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2.txt

Test file number 94

Integral number in file 281

2.3.769 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{%%{[-27222589353675077077069968594541456916480,0]:[1,
0,-2]%
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 410

2.3.770 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{%%{[2475880078570760549798248448,0]:[1,0,-2]%%},[10]%%
%%},0]
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 411

2.3.771 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{%%{[-54043195528445952,0]:[1,0,-2]%%},[6]%%},0]:[1,0
,%%{-
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 412

2.3.772 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorit
hm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{%%{[268435456,0]:[1,0,-2]%%},[2]%%},0]:[1,0,%%{-1,[
1]%%}}
```

input file name 4_Trig_functions/4.2_Cosine/4.2.4.2-a+b_cos^m-c+d_cos^n-A+B_cos+C_cos^2-.txt

Test file number 94

Integral number in file 413

2.3.773 Giac [F(-2)]

Exception generated.

$$\int \sin^3(a + bx) \sqrt{d \tan(a + bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(b*x+a)^3*(d*tan(b*x+a))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 59

2.3.774 Giac [F(-2)]

Exception generated.

$$\int \sin^3(a + bx) (d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(b*x+a)^3*(d*tan(b*x+a))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0]ext_r
educer
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 69

2.3.775 Giac [F(-2)]

Exception generated.

$$\int \sin(a + bx)(d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(b*x+a)*(d*tan(b*x+a))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0]ext_r
educe
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 70

2.3.776 Giac [F(-2)]

Exception generated.

$$\int \sin^3(a + bx)(d \tan(a + bx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(b*x+a)^3*(d*tan(b*x+a))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0]ext_r
educe
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 78

2.3.777 Giac [F(-2)]

Exception generated.

$$\int \sin(a + bx)(d \tan(a + bx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(sin(b*x+a)*(d*tan(b*x+a))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]e
 xt_reduce Error: Bad Argument TypeDone

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 79

2.3.778 Giac [F(-2)]

Exception generated.

$$\int (a \sin(e + fx))^{5/2} \sqrt{b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a*sin(f*x+e))^(5/2)*(b*tan(f*x+e))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
 gen &

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 114

2.3.779 Giac [F(-2)]

Exception generated.

$$\int (a \sin(e + fx))^{3/2} \sqrt{b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*sin(f*x+e))^(3/2)*(b*tan(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 115

2.3.780 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a \sin(e + fx)} \sqrt{b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*sin(f*x+e))^(1/2)*(b*tan(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 116

2.3.781 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a \sin(e + fx)} (b \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*sin(f*x+e))^(1/2)*(b*tan(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 122

2.3.782 Giac [F(-2)]

Exception generated.

$$\int (b \sin(e + fx))^{4/3} \sqrt{d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*sin(f*x+e))^(4/3)*(d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 145

2.3.783 Giac [F(-2)]

Exception generated.

$$\int \sqrt[3]{b \sin(e + fx)} \sqrt{d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*sin(f*x+e))^(1/3)*(d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 146

2.3.784 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{\sqrt[3]{b \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*tan(f*x+e))^(1/2)/(b*sin(f*x+e))^(1/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 147

2.3.785 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{(b \sin(e + fx))^{4/3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*tan(f*x+e))^(1/2)/(b*sin(f*x+e))^(4/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 148

2.3.786 Giac [F(-2)]

Exception generated.

$$\int \sqrt[3]{b \sin(e + fx)} (d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*sin(f*x+e))^(1/3)*(d*tan(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 150

2.3.787 Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{\sqrt[3]{b \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*tan(f*x+e))^(3/2)/(b*sin(f*x+e))^(1/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 151

2.3.788 Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{(b \sin(e + fx))^{4/3}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*tan(f*x+e))^(3/2)/(b*sin(f*x+e))^(4/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 152

2.3.789 Giac [F(-2)]

Exception generated.

$$\int \cos^3(e + fx) \sqrt{d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(f*x+e)^3*(d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 234

2.3.790 Giac [F(-2)]

Exception generated.

$$\int \cos(a + bx)(d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(b*x+a)*(d*tan(b*x+a))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0]ext_r
educe
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 244

2.3.791 Giac [F(-2)]

Exception generated.

$$\int \cos^3(a + bx)(d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(b*x+a)^3*(d*tan(b*x+a))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0]ext_r
educ
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 245

2.3.792 Giac [F(-2)]

Exception generated.

$$\int \cos^5(a + bx)(d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(b*x+a)^5*(d*tan(b*x+a))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]e
xt_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0]ext_r
educ
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 246

2.3.793 Giac [F(-2)]

Exception generated.

$$\int \sec^6(a + bx)(d \tan(a + bx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(b*x+a)^6*(d*tan(b*x+a))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,4,0,0]%%}+%%{2,[0,1,2,2,0]%%}+%%{1,[0,1,0,4,0]%%}
 / %%
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 363

2.3.794 Giac [F(-2)]

Exception generated.

$$\int \sec^4(a + bx)(d \tan(a + bx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(b*x+a)^4*(d*tan(b*x+a))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,2,0,0]%%}+%%{1,[0,1,0,2,0]%%} / %%{1,[0,0,3,0,1]%%
 %} Err
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 364

2.3.795 Giac [F(-2)]

Exception generated.

$$\int \sec^2(a + bx)(d \tan(a + bx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(b*x+a)^2*(d*tan(b*x+a))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Val
ue
```

input file name 4_Trig_functions/4.3_Tangent/4.3.0-a_trg-[^]m-b_tan-[^]n.txt

Test file number 98

Integral number in file 365

2.3.796 Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)}(a + ia \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1,[2,0]%%}+%%{%%{[-2,0]:[1,0,%%{1,[1]%%}]%%},[1,0]%%}+%
%%{%%%
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec-[^]m-a+b_tan-[^]n.txt

Test file number 101

Integral number in file 188

2.3.797 Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [2,0]%%}+%%{%%{[-2,0]: [1,0,%%{1, [1]%%}]%%}, [1,0]%%}+%
%%{%%%
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 194

2.3.798 Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [2,0]%%}+%%{%%{[-2,0]: [1,0,%%{1, [1]%%}]%%}, [1,0]%%}+%
%%{%%%
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 204

2.3.799 Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^4 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [2,0]%%}+%%{%%{[-2,0]: [1,0,%%{1, [1]%%}]%%}, [1,0]%%}+%
%%{%%%
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec[^]m-a+b_tan[^]n.txt

Test file number 101

Integral number in file 214

2.3.800 Giac [F(-2)]

Exception generated.

$$\int \sec^6(c + dx)(a + b \tan(c + dx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(d*x+c)^6*(a+b*tan(d*x+c))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0,1,4,0,0,0]%%}+%%{2, [0,1,2,2,0,0]%%}+%%{-4, [0,1,2,1,1
,0]%%%
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec[^]m-a+b_tan[^]n.txt

Test file number 101

Integral number in file 646

2.3.801 Giac [F(-2)]

Exception generated.

$$\int \sec^4(c + dx)(a + b \tan(c + dx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(d*x+c)^4*(a+b*tan(d*x+c))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,2,0,0,0]%%}+%%{1,[0,1,0,2,0,0]%%}+%%{-2,[0,1,0,1,1
,0]%%}
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 647

2.3.802 Giac [F(-2)]

Exception generated.

$$\int \sec^2(c + dx)(a + b \tan(c + dx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(d*x+c)^2*(a+b*tan(d*x+c))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Val
ue
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tan^n.txt

Test file number 101

Integral number in file 648

2.3.803 Giac [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(c + dx)}{\sqrt{e \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))/(e*cos(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{-4, [1]%%},0]: [1,0,%%{1, [1]%%}]%%}, [2,1]%%}+%%{%%
%{8, [2
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^{-m}-a+b_tan⁻ⁿ.txt

Test file number 101

Integral number in file 659

2.3.804 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(1/2)*tan(d*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -40, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^{-m}-c+d_tan⁻ⁿ.txt

Test file number 103

Integral number in file 186

2.3.805 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)}dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(1/2)*tan(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -72, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 187

2.3.806 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}\sqrt{a+ia\tan(c+dx)}dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -63, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 188

2.3.807 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
 nd replaced randomly by 0=[-38]Warning, replacing -38 by 97, a substitution
 varia

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 189

2.3.808 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
 nd replaced randomly by 0=[-71]Warning, replacing -71 by 16, a substitution
 varia

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 190

2.3.809 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{5}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Non regular value [0] was discarded a
 nd replaced randomly by 0=[-96]Warning, replacing -96 by 32, a substitution
 varia

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 191

2.3.810 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{7}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Non regular value [0] was discarded a
 nd replaced randomly by 0=[80]Warning, replacing 80 by -69, a substitution
 variab

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 192

2.3.811 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -35, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 193

2.3.812 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -42, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 194

2.3.813 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by 77, a substitution variable should perhaps be purged.W
arning
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 195

2.3.814 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+ia\tan(c+dx))^{3/2}}{\sqrt{\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-86]Warning, replacing -86 by -35, a substitutio
n vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 196

2.3.815 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[37]Warning, replacing 37 by 69, a substitution v
ariabl
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 197

2.3.816 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-32]Warning, replacing -32 by 97, a substitution
varia
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 198

2.3.817 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[45]Warning, replacing 45 by 19, a substitution v
ariabl
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 199

2.3.818 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(9/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[26]Warning, replacing 26 by -41, a substitution
variab
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 200

2.3.819 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -99, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 201

2.3.820 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -86, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 202

2.3.821 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a+ia \tan(c+dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -64, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 203

2.3.822 Giac [F(-2)]

Exception generated.

$$\int \frac{(a+ia \tan(c+dx))^{5/2}}{\sqrt{\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-32]Warning, replacing -32 by -82, a substitutio
n vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 204

2.3.823 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[89]Warning, replacing 89 by -23, a substitution
variab
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 205

2.3.824 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[16]Warning, replacing 16 by -68, a substitution
variab
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 206

2.3.825 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
 nd replaced randomly by 0=[17]Warning, replacing 17 by -43, a substitution
 variab

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 207

2.3.826 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(9/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
 nd replaced randomly by 0=[48]Warning, replacing 48 by 64, a substitution v
 ariabl

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 208

2.3.827 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{\frac{11}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(11/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-64]Warning, replacing -64 by 68, a substitution
varia

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 209

2.3.828 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[84]Warning, replacing 84 by -86, a substitution
variab

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 210

2.3.829 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)}{\sqrt{a+ia \tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0] was discarded a
 nd replaced randomly by 0=[-12]Warning, replacing -12 by -71, a substitutio
 n vari

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 211

2.3.830 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)}{\sqrt{a+ia \tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0] was discarded a
 nd replaced randomly by 0=[-18]Warning, replacing -18 by -46, a substitutio
 n vari

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 212

2.3.831 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[60]Warning, replacing 60 by -66, a substitution
variab
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 213

2.3.832 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-8]Warning, replacing -8 by -96, a substitution
variab
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 218

2.3.833 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-98]Warning, replacing -98 by 69, a substitution
varia
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 219

2.3.834 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-1]Non regular value [0] was discarded and repla
ced ra
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 220

2.3.835 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-63]Warning, replacing -63 by 61, a substitution
varia
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 221

2.3.836 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{9}{2}}(c+dx)}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(9/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-3]Warning, replacing -3 by -93, a substitution
variab
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 225

2.3.837 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-85]Warning, replacing -85 by 11, a substitution
  varia
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 226

2.3.838 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-36]Warning, replacing -36 by 25, a substitution
  varia
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 227

2.3.839 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[46]Warning, replacing 46 by 18, a substitution v
ariabl
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 228

2.3.840 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-21]Warning, replacing -21 by -65, a substitutio
n vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 229

2.3.841 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming [sageVAR
a,t_nostep]=[63,-86]Precision problem choosing root in common_EXT, current
precis
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 263

2.3.842 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{2}{3}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(2/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming [sageVAR
a,t_nostep]=[93,-22]Precision problem choosing root in common_EXT, current
precis
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 264

2.3.843 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{4}{3}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(4/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming [sageVAR
a,t_nostep]=[89,-63]Precision problem choosing root in common_EXT, current
precis
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 265

2.3.844 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming [sageVAR
a,t_nostep]=[33,-80]Precision problem choosing root in common_EXT, current
precis
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 269

2.3.845 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{2}{3}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming [sageVAR
a,t_nostep]=[-33,18]Precision problem choosing root in common_EXT, current
precis
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 270

2.3.846 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{4}{3}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming [sageVAR
a,t_nostep]=[79,3]Precision problem choosing root in common_EXT, current pr
ecisio
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 271

2.3.847 Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx) \sqrt[3]{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^3*(a+I*a*tan(d*x+c))^(1/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 278

2.3.848 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{5/2} (a + a \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/(d*tan(f*x+e))^(5/2)/(a+a*tan(f*x+e)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 363

2.3.849 Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{9/2}}{(a + a \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*tan(f*x+e))^(9/2)/(a+a*tan(f*x+e))^3,x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 370

2.3.850 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*tan(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
 gen &

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 507

2.3.851 Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(d*x+c)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
 gen &

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 508

2.3.852 Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(cot(d*x+c)^3*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 510

2.3.853 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 533

2.3.854 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 534

2.3.855 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^3/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 536

2.3.856 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)} \sqrt{a+b \tan(c+dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 610

2.3.857 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{\sqrt{2+3 \tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)/(2+3*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to find common minimal polynom
ial Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 663

2.3.858 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{\sqrt{-2+3\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)/(-2+3*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 664

2.3.859 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{\sqrt{-2-3\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)/(-2-3*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 666

2.3.860 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Valueintegrate((sageVA
Ra*tan(sageVARd*sageVARx+sageVARc)*i+sageVARa)^-1*(sqrt(cos(sageVARd*sageVA
Rx+sageVA
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 739

2.3.861 Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c+dx)\sqrt{a+b \tan(c+dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(7/2)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 840

2.3.862 Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 841

2.3.863 Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(3/2)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 842

2.3.864 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c+dx)}\sqrt{a+b\tan(c+dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 843

2.3.865 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+b\tan(c+dx)}}{\sqrt{\cot(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*tan(d*x+c))^(1/2)/cot(d*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 844

2.3.866 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}}{\cot^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*tan(d*x+c))^(1/2)/cot(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 845

2.3.867 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 861

2.3.868 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 863

2.3.869 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 864

2.3.870 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/cot(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 865

2.3.871 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 867

2.3.872 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 869

2.3.873 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{3/2}(c+dx)(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/cot(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 871

2.3.874 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)}{(a+b\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 874

2.3.875 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+b\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 876

2.3.876 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/cot(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 878

2.3.877 Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(1/2)*(a+I*a*tan(f*x+e))^(5/2),x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{18, [0,10,0,0,0]}%%}+%%{-120, [0,9,0,0,1]}%%}+%%{%%{%%{[360,
0]: [1,
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1137

2.3.878 Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(1/2)*(a+I*a*tan(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding
error%%{18, [0,10,0,0,0]%%}+%%{-120, [0,9,0,0,1]%%}+%%{%%{%%{[360,
0]: [1,
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1138

2.3.879 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + ia \tan(e + fx)} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(1/2)*(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding
error%%{18, [0,10,0,0,0]%%}+%%{-120, [0,9,0,0,1]%%}+%%{%%{%%{[360,
0]: [1,
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1139

2.3.880 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[-63,1]Warning, replacing -63 by 7, a substitution va

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1140

2.3.881 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[99,60]Warning, replacing 99 by 97, a substitution va

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1141

2.3.882 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[65,-63]Warning, replacing 65 by -42, a substitution

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1142

2.3.883 Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{-18, [0,10,0,0,0]%%}+%%{120, [0,9,0,0,1]%%}+%%{%%{%%{[-360,0]: [1

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1143

2.3.884 Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{18, [0,10,0,0,0]%%}+%%{-120, [0,9,0,0,1]%%}+%%{%%{%%{[360,0]: [1,
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1144

2.3.885 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + ia \tan(e + fx)} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(1/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{18, [0,10,0,0,0]%%}+%%{-120, [0,9,0,0,1]%%}+%%{%%{%%{[360,0]: [1,
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1145

2.3.886 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(1/2),x, algorithm="gias")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0,0] was discarded
and replaced randomly by 0=[77,-80]Warning, replacing 77 by -85, a substitution
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1146

2.3.887 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="gias")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0,0] was discarded
and replaced randomly by 0=[37,69]Warning, replacing 37 by 48, a substitution va
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1147

2.3.888 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[-8,-38]Warning, replacing -8 by 29, a substitution v

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1148

2.3.889 Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to rounding error%%{18, [0,10,0,0,0]%%}+%%{-120, [0,9,0,0,1]%%}+%%{%%{%%{[360,0]:[1,

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1149

2.3.890 Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding
error%%{-18, [0,10,0,0,0]%%}+%%{120, [0,9,0,0,1]%%}+%%{%%{%%{[-360,0]: [1
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1150

2.3.891 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + ia \tan(e + fx)} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(1/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding
error%%{18, [0,10,0,0,0]%%}+%%{-120, [0,9,0,0,1]%%}+%%{%%{%%{[360,0]: [1,
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1151

2.3.892 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[71,-44]Warning, replacing 71 by 44, a substitution v

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1152

2.3.893 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[36,86]Warning, replacing 36 by -68, a substitution v

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1153

2.3.894 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[94,-89]Warning, replacing 94 by -86, a substitution

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1154

2.3.895 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[11,77]Warning, replacing 11 by 3, a substitution
 on var

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1155

2.3.896 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="gias")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0,0] was discarded
and replaced randomly by 0=[59,-68]Warning, replacing 59 by 96, a substitu
tion v
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1156

2.3.897 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="gias")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeError: Bad Argument Typeindex.cc index_m
i_lex
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 1157

2.3.898 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeError: Bad Argument Typeindex.cc index_m
i_lex
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1158

2.3.899 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0,0] was discarded
and replaced randomly by 0=[41,-73]Warning, replacing 41 by -69, a substit
ution
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1161

2.3.900 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Non regular value [0,0] was discarded
and replaced randomly by 0=[-59,-77]Warning, replacing -59 by -5, a substitution

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1162

2.3.901 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument
TypeError: Bad Argument TypeError: Bad Argument Typeindex.cc index_m
i_lex

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1163

2.3.902 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)}(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument
TypeError: Bad Argument TypeError: Bad Argument Typeindex.cc index_m
i_lex

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1164

2.3.903 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Non regular value [0,0] was discarded
and replaced randomly by 0=[72,-20]Warning, replacing 72 by 50, a substitution v

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1167

2.3.904 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Non regular value [0,0] was discarded
 and replaced randomly by 0=[-53,-45]Warning, replacing -53 by -66, a substitutio

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1168

2.3.905 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Ar
 gument TypeError: Bad Argument TypeError: Bad Argument Typeindex.cc index_m
 i_lex

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1169

2.3.906 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)}(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeError: Bad Argument Typeindex.cc index_m
i_lex
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1170

2.3.907 Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^m (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^m*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1186

2.3.908 Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^m \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^m*(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt
Test file number 103
Integral number in file 1187
```

2.3.909 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^m/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt
Test file number 103
Integral number in file 1188
```

2.3.910 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^m/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1189

2.3.911 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(f*x+e))^m/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1190

2.3.912 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(e + fx)} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*tan(f*x+e))^(1/2)*(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1267

2.3.913 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)} (A + B \tan(c + dx)) dx$$

= Exception raised: TypeError

```
[In] integrate((a+I*a*tan(d*x+c))^(1/2)*tan(d*x+c)^(3/2)*(A+B*tan(d*x+c)),x, alg
orithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by 15, a substitution variable should perhaps be purged.W
arning
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan-[^]m-c+d_tan-[^]n-A+B_tan-[^].txt

Test file number 104

Integral number in file 154

2.3.914 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)} \sqrt{a+ia \tan(c+dx)} (A+B \tan(c+dx)) dx$$

= Exception raised: TypeError

[In] integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]Warning, replacing 0 by 32, a substitution variable should perhaps be purged.Warning

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 155

2.3.915 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+ia \tan(c+dx)} (A+B \tan(c+dx))}{\sqrt{\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]Warning, replacing 0 by -86, a substitution variable should perhaps be purged.Warnings

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 156

2.3.916 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-74]Warning, replacing -74 by -81, a substitutio
n vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt

Test file number 104

Integral number in file 157

2.3.917 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{5}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-75]Warning, replacing -75 by -19, a substitutio
n vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt

Test file number 104

Integral number in file 158

2.3.918 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{7}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[66]Warning, replacing 66 by -57, a substitution
variab
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 159

2.3.919 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{9}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[15]Warning, replacing 15 by 99, a substitution v
ariabl
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 160

2.3.920 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{\frac{3}{2}}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]Warning, replacing 0 by -48, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^{^m}-c+d_tan^{^n}-A+B_tan-.txt

Test file number 104

Integral number in file 161

2.3.921 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^{\frac{3}{2}}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]Warning, replacing 0 by -28, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^{^m}-c+d_tan^{^n}-A+B_tan-.txt

Test file number 104

Integral number in file 162

2.3.922 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[80]Warning, replacing 80 by -82, a substitution variable
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 163

2.3.923 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx))}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[94]Warning, replacing 94 by -29, a substitution variable
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan.txt

Test file number 104

Integral number in file 164

2.3.924 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[78]Warning, replacing 78 by 64, a substitution variable
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 165

2.3.925 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[40]Warning, replacing 40 by 37, a substitution variable
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 166

2.3.926 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[16]Warning, replacing 16 by 40, a substitution variable
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 167

2.3.927 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{11/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(11/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[-85]Warning, replacing -85 by 10, a substitution variable
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 168

2.3.928 Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by -28, a substitution variable should perhaps be purged.
Warnin
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^{-m}-c+d_tan⁻ⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 169

2.3.929 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
ning, replacing 0 by 51, a substitution variable should perhaps be purged.W
arning
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^{-m}-c+d_tan⁻ⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 170

2.3.930 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[57]Warning, replacing 57 by 18, a substitution v
ariabl
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 171

2.3.931 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-90]Warning, replacing -90 by -93, a substitutio
n vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 172

2.3.932 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[-92]Warning, replacing -92 by -88, a substitution vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 173

2.3.933 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[-41]Warning, replacing -41 by -23, a substitution vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 174

2.3.934 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[-28]Warning, replacing -28 by 24, a substitution varia
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt

Test file number 104

Integral number in file 175

2.3.935 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{11/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(11/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[35]Warning, replacing 35 by 59, a substitution v  
ariabl
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt

Test file number 104

Integral number in file 176

2.3.936 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{13/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(13/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-42]Warning, replacing -42 by -80, a substitutio
n vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 177

2.3.937 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} \left(\frac{3bB}{2a} + B \tan(c + dx)\right)}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+I*a*tan(d*x+c))^(5/2)*(3/2*b*B/a+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-52]Warning, replacing -52 by -83, a substitutio
n vari
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 178

2.3.938 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[24]Warning, replacing 24 by 84, a substitution v
ariabl
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 179

2.3.939 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-7]Warning, replacing -7 by -3, a substitution v
ariabl
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 180

2.3.940 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 2*((3
*sqrt(abs(sageVARa))*sageVARB*sageVARa+3*i*abs(sageVARa)*sqrt(abs(sageVARa)
)*sageVARB+3*i*sqrt(abs(sageVARa))*sageVARa*sageVARa-3*abs(sageVARa)*sqrt(a
bs(sageVARa))*sa
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 181

2.3.941 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -2*i*
sageVARa*(-i)/sageVARa/sageVARd*sqrt(i*sageVARa*tan(sageVARc+sageVARd*sageV
ARx)+sageVARa)*sqrt(2*sageVARa^2-2*sageVARa*(sqrt(i*sageVARa*tan(sageVARc+s
ageVARd*sageVARx
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 182

2.3.942 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 2*((9
*i*sageVARa*sageVARB*sageVARd+6*sageVARa*sageVARd*sageVARa)/9/sageVARa^3/sa
geVARd^2*sqrt(i*sageVARa*tan(sageVARc+sageVARd*sageVARx)+sageVARa)*sqrt(i*s
ageVARa*tan(sage
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 183

2.3.943 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{7}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 2*((-
(345*i*sageVARa^3*sageVARa*sageVARd^2-150*sageVARa^3*sageVARd^2*sageVARB)/(
225*i)/sageVARa^6/sageVARd^3*sqrt(i*sageVARa*tan(sageVARc+sageVARd*sageVARx
)+sageVARa)*sqrt
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 184

2.3.944 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[18]Warning, replacing 18 by 97, a substitution v
ariabl

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-
.txt

Test file number 104

Integral number in file 185

2.3.945 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-63]Warning, replacing -63 by -42, a substitutio
n vari

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-
.txt

Test file number 104

Integral number in file 186

2.3.946 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[32]Warning, replacing 32 by 64, a substitution variable
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 190

2.3.947 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0] was discarded and replaced randomly by 0=[-83]Warning, replacing -83 by -8, a substitution variable
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 191

2.3.948 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Non regular value [0] was discarded a
nd replaced randomly by 0=[-27]Warning, replacing -27 by 20, a substitution
varia

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 192

2.3.949 Giac [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\tan^{5/2}(c+dx)(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 195

2.3.950 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 521

2.3.951 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 531

2.3.952 Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{9}{2}}(c+dx)\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(9/2)*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorith
m="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-
.txt

Test file number 104

Integral number in file 612

2.3.953 Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c+dx)\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(7/2)*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorith
m="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-
.txt

Test file number 104

Integral number in file 613

2.3.954 Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c+dx)\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorith
m="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-
.txt

Test file number 104

Integral number in file 614

2.3.955 Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c+dx)\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(3/2)*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorith
m="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-
.txt

Test file number 104

Integral number in file 615

2.3.956 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c+dx)}\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx$$

= Exception raised: TypeError

```
[In] integrate(cot(d*x+c)^(1/2)*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorith="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 616

2.3.957 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))}{\sqrt{\cot(c+dx)}}dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(1/2),x, algorith="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 617

2.3.958 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx))}{\cot^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt

Test file number 104

Integral number in file 618

2.3.959 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{7}{2}}(c + dx)(A + B \tan(c + dx))}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(7/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt

Test file number 104

Integral number in file 636

2.3.960 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 637

2.3.961 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 639

2.3.962 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx) \sqrt{a + b \tan(c + dx)}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(1/2),x, algorith="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 640

2.3.963 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx) \sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(1/2),x, algorith="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 641

2.3.964 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 642

2.3.965 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 644

2.3.966 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(3/2),x, algo-
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-
.txt

Test file number 104

Integral number in file 646

2.3.967 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algo-
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-
.txt

Test file number 104

Integral number in file 647

2.3.968 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 649

2.3.969 Giac [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\cot^{3/2}(c+dx)(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 651

2.3.970 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(aB + bB \tan(c+dx))}{(a + b \tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(d*x+c)^(1/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 653

2.3.971 Giac [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c+dx)}{\cot^{3/2}(c+dx)(a + b \tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((B*a+b*B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-.txt

Test file number 104

Integral number in file 655

2.3.972 Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 95

2.3.973 Giac [F(-2)]

Exception generated.

$$\int \csc^3(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)^3*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 96

2.3.974 Giac [F(-2)]

Exception generated.

$$\int \csc^5(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)^5*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 97

2.3.975 Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(csc(f*x+e)*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 107

2.3.976 Giac [F(-2)]

Exception generated.

$$\int \csc^5(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(csc(f*x+e)^5*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 109

2.3.977 Giac [F(-2)]

Exception generated.

$$\int \cot(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(f*x+e)*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 296

2.3.978 Giac [F(-2)]

Exception generated.

$$\int \cot^3(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(f*x+e)^3*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 297

2.3.979 Giac [F(-2)]

Exception generated.

$$\int \cot^5(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(f*x+e)^5*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 298

2.3.980 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(e + fx)}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(f*x+e)/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 322

2.3.981 Giac [F(-2)]

Exception generated.

$$\int \cot(x) \sqrt{a + b \tan^4(x)} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(x)*(a+b*tan(x)^4)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 391

2.3.982 Giac [F(-2)]

Exception generated.

$$\int \cot(x) (a + b \tan^4(x))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(x)*(a+b*tan(x)^4)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 395

2.3.983 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(x)}{\sqrt{a + b \tan^4(x)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(x)^3/(a+b*tan(x)^4)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 396

2.3.984 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{\sqrt{a + b \tan^4(x)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(x)/(a+b*tan(x)^4)^(1/2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 398

2.3.985 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \tan^4(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(x)/(a+b*tan(x)^4)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 402

2.3.986 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \tan^4(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(x)/(a+b*tan(x)^4)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 405

2.3.987 Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^m \left(a + b \sqrt{c \tan(e + fx)} \right)^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+b*(c*tan(f*x+e))^(1/2))^2*(d*tan(f*x+e))^m,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,
1,0]%%} / %%{1,[0,0,2]%%}+%%{-1,[0,0,0]%%} Error: Bad Argument Value
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 406

2.3.988 Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^m}{a + b \sqrt{c \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*tan(f*x+e))^m/(a+b*(c*tan(f*x+e))^(1/2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 408

2.3.989 Giac [F(-2)]

Exception generated.

$$\int \sec^6(e + fx) (b(c \tan(e + fx))^n)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)^6*(b*(c*tan(f*x+e))^n)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,4,0,0]%%}+%%{2,[0,1,2,2,0]%%}+%%{1,[0,1,0,4,0]%%}
 / %%
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 477

2.3.990 Giac [F(-2)]

Exception generated.

$$\int \sec^4(e + fx) (b(c \tan(e + fx))^n)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)^4*(b*(c*tan(f*x+e))^n)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,2,0,0]%%}+%%{1,[0,1,0,2,0]%%} / %%{1,[0,0,3,0,1]%%
%} Err
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 478

2.3.991 Giac [F(-2)]

Exception generated.

$$\int \sec^2(e + fx) (b(c \tan(e + fx))^n)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)^2*(b*(c*tan(f*x+e))^n)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Val
ue
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 479

2.3.992 Giac [F(-2)]

Exception generated.

$$\int \sec^6(e + fx) (a + b(c \tan(e + fx))^n)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)^6*(a+b*(c*tan(f*x+e))^n)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,4,0,0]%%}+%%{2,[0,1,2,2,0]%%}+%%{1,[0,1,0,4,0]%%}
/ %%
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-[^]m-a+b-c_tan-[^]n-[^]p.txt

Test file number 106

Integral number in file 491

2.3.993 Giac [F(-2)]

Exception generated.

$$\int \sec^4(e + fx) (a + b(c \tan(e + fx))^n)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)^4*(a+b*(c*tan(f*x+e))^n)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,2,0,0]%%}+%%{1,[0,1,0,2,0]%%} / %%{1,[0,0,3,0,1]%%
%} Err
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 492

2.3.994 Giac [F(-2)]

Exception generated.

$$\int \sec^2(e + fx) (a + b(c \tan(e + fx))^n)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)^2*(a+b*(c*tan(f*x+e))^n)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Val
ue
```

input file name 4_Trig_functions/4.3_Tangent/4.3.7-d_trig-^m-a+b-c_tan-ⁿ-^p.txt

Test file number 106

Integral number in file 493

2.3.995 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a \cot^4(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*cot(x)^4)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.4_Cotangent/4.4.0-a_trg-^m-b_cot-^n.txt

Test file number 108

Integral number in file 35

2.3.996 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cot^4(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*cot(x)^4)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.4_Cotangent/4.4.0-a_trg-^m-b_cot-^n.txt

Test file number 108

Integral number in file 36

2.3.997 Giac [F(-2)]

Exception generated.

$$\int \cot^3(x) \sqrt{a + b \cot^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(x)^3*(a+b*cot(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to convert to real sageVARb Er
ror: Bad Argument ValueUnable to convert to real sageVARb Error: Bad Argume
nt Val
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-[^]m-a+b-c_cot-[^]n-[^]p.txt

Test file number 113

Integral number in file 19

2.3.998 Giac [F(-2)]

Exception generated.

$$\int \cot^2(x) \sqrt{a + b \cot^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(x)^2*(a+b*cot(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-[^]m-a+b-c_cot-[^]n-[^]p.txt

Test file number 113

Integral number in file 22

2.3.999 Giac [F(-2)]

Exception generated.

$$\int \cot^3(x) (a + b \cot^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(cot(x)^3*(a+b*cot(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to convert to real sageVARb Er
 ror: Bad Argument ValueUnable to convert to real sageVARb Error: Bad Argume
 nt Val

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-[^]m-a+b-c_cot-[^]n-[^]p.txt

Test file number 113

Integral number in file 26

2.3.1000 Giac [F(-2)]

Exception generated.

$$\int \cot^2(x) (a + b \cot^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(cot(x)^2*(a+b*cot(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-[^]m-a+b-c_cot-[^]n-[^]p.txt

Test file number 113

Integral number in file 27

2.3.1001 Giac [F(-2)]

Exception generated.

$$\int \cot(x) (a + b \cot^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(x)*(a+b*cot(x)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to convert to real sageVARb Er
ror: Bad Argument ValueUnable to convert to real sageVARb Error: Bad Argume
nt Val
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-[^]m-a+b-c_cot-[^]n-[^]p.txt

Test file number 113

Integral number in file 28

2.3.1002 Giac [F(-2)]

Exception generated.

$$\int (a + b \cot^2(x))^{3/2} \tan(x) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*cot(x)^2)^(3/2)*tan(x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-[^]m-a+b-c_cot-[^]n-[^]p.txt

Test file number 113

Integral number in file 29

2.3.1003 Giac [F(-2)]

Exception generated.

$$\int (a + b \cot^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*cot(d*x+c)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-^n-^p.txt
```

```
Test file number 113
```

```
Integral number in file 31
```

2.3.1004 Giac [F(-2)]

Exception generated.

$$\int (a + b \cot^2(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*cot(d*x+c)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig-^m-a+b-c_cot-^n-^p.txt
```

```
Test file number 113
```

```
Integral number in file 32
```

2.3.1005 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cot^2(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*cot(d*x+c)^2)^(1/2),x, algorithm="giac")
```


[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.4_Cotangent/4.4.7-d_trig[^]m-a+b-c_cot[^]n[^]p.txt

Test file number 113

Integral number in file 33

2.3.1006 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^5(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(e*x+d)^5/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig[^]m-a+b_cot[^]n+c_cot[^]-2_n[^]p.txt

Test file number 114

Integral number in file 1

2.3.1007 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^{m-a+b_cot^{n+c_cot^{-2_n-^p}}.txt}

Test file number 114

Integral number in file 2

2.3.1008 Giac [**F(-2)**]

Exception generated.

$$\int \frac{\cot(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^{m-a+b_cot^{n+c_cot^{-2_n-^p}}.txt}

Test file number 114

Integral number in file 3

2.3.1009 Giac [**F(-2)**]

Exception generated.

$$\int \frac{\tan(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^{m-a+b_cot^{n+c_cot^{-2_n-^p}}.txt}

Test file number 114

Integral number in file 4

2.3.1010 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^-
2_n-^p.txt

Test file number 114

Integral number in file 5

2.3.1011 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^7(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(e*x+d)^7/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^-
2_n-^p.txt

Test file number 114

Integral number in file 11

2.3.1012 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^5(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(e*x+d)^5/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cotⁿ+c_cot⁻
2_n-^p.txt

Test file number 114

Integral number in file 12

2.3.1013 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cotⁿ+c_cot⁻
2_n-^p.txt

Test file number 114

Integral number in file 13

2.3.1014 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^-2_n-^p.txt

Test file number 114

Integral number in file 14

2.3.1015 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tan(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^-2_n-^p.txt

Test file number 114

Integral number in file 15

2.3.1016 Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tan(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value

input file name 4_Trig_functions/4.4_Cotangent/4.4.9_trig^m-a+b_cot^n+c_cot^-
2_n-^p.txt

Test file number 114

Integral number in file 16

2.3.1017 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a\sec^4(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*sec(x)^4)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.0-a_sec^m-b_trg^n.txt

Test file number 115

Integral number in file 66

2.3.1018 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sec^4(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*sec(x)^4)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.0-a_sec^m-b_trg^n.txt

Test file number 115

Integral number in file 67

2.3.1019 Giac [F(-2)]

Exception generated.

$$\int \frac{(-\sec(e + fx))^n}{(a - a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-sec(f*x+e))^n/(a-a*sec(f*x+e))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0,4,1,0]%%}+%%{2, [0,2,1,1]%%}+%%{1, [0,0,1,2]%%} / %%
{1, [0,

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec^n-a+b_sec^m.txt

Test file number 118

Integral number in file 324

2.3.1020 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(c + dx))^{5/2}}{\sec^{4/3}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sec(d*x+c))^(5/2)/sec(d*x+c)^(4/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:int() Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 744

2.3.1021 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(c + dx))^{5/2}}{\sec^{7/3}(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sec(d*x+c))^(5/2)/sec(d*x+c)^(7/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:int() Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.1.2-d_sec-ⁿ-a+b_sec-^m.txt

Test file number 118

Integral number in file 746

2.3.1022 Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sin(c + dx))^m}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((e*sin(d*x+c))^m/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")
```


[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%
 {poly1[1,0]:[1,0,-2]%%},[5,12]%%}+%%{%%{[6,0]:[1,0,-2]%%},[5,10]%%}+%%{
 %%{[15,0]

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 143

2.3.1023 Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))^n \sin^3(c + dx) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+a*sec(d*x+c))ⁿ*sin(d*x+c)³,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 147

2.3.1024 Giac [F(-2)]

Exception generated.

$$\int (a + b \sec(c + dx))^n \sin^3(c + dx) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*sec(d*x+c))ⁿ*sin(d*x+c)³,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.1.3-d_sin-ⁿ-a+b_sec-^m.txt

Test file number 119

Integral number in file 269

2.3.1025 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{\sqrt{a + b \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(d*x+c)/(a+b*sec(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-^n-a+b_sec-^m.txt

Test file number 120

Integral number in file 329

2.3.1026 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + b \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(d*x+c)/(a+b*sec(d*x+c))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-^n-a+b_sec-^m.txt

Test file number 120

Integral number in file 338

2.3.1027 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{(a + b \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(cot(d*x+c)^3/(a+b*sec(d*x+c))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{32,[2,6]%%}+%%{-32,[1,7]%%},{[6,1]%%}+%%{%%}{[%%]{64,[2,6]%%}

input file name 4_Trig_functions/4.5_Secant/4.5.1.4-d_tan-ⁿ-a+b_sec-^m.txt

Test file number 120

Integral number in file 339

2.3.1028 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^4}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c*sec(f*x+e))^4/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-ⁿ.txt

Test file number 121

Integral number in file 65

2.3.1029 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^3}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c*sec(f*x+e))^3/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-ⁿ.txt

Test file number 121

Integral number in file 66

2.3.1030 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^2}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c*sec(f*x+e))^2/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 67

2.3.1031 Giac [F(-2)]

Exception generated.

$$\int \frac{c - c \sec(e + fx)}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 68

2.3.1032 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c - c \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c-c*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_secⁿ.txt

Test file number 121

Integral number in file 69

2.3.1033 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c - c \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c-c*sec(f*x+e))^2/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec^m-c+d_secⁿ.txt

Test file number 121

Integral number in file 70

2.3.1034 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c - c \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c-c*sec(f*x+e))^3/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 71

2.3.1035 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^4}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c*sec(f*x+e))^4/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 72

2.3.1036 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^3}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c*sec(f*x+e))^3/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 73

2.3.1037 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^2}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c*sec(f*x+e))^2/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 74

2.3.1038 Giac [F(-2)]

Exception generated.

$$\int \frac{c - c \sec(e + fx)}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c*sec(f*x+e))/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 75

2.3.1039 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2}(c - c \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 76

2.3.1040 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2} (c - c \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 77

2.3.1041 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2} (c - c \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 78

2.3.1042 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^5}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c*sec(f*x+e))^5/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 79

2.3.1043 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^4}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c*sec(f*x+e))^4/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 80

2.3.1044 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^3}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c*sec(f*x+e))^3/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 81

2.3.1045 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^2}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c*sec(f*x+e))^2/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 82

2.3.1046 Giac [F(-2)]

Exception generated.

$$\int \frac{c - c \sec(e + fx)}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c*sec(f*x+e))/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 83

2.3.1047 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2}(c - c \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 84

2.3.1048 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2} (c - c \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 85

2.3.1049 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{7/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c*sec(f*x+e))^(7/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
)

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 110

2.3.1050 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 111

2.3.1051 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{3/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c*sec(f*x+e))^(3/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 112

2.3.1052 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{7/2}}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c*sec(f*x+e))^(7/2)/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 117

2.3.1053 Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 118

2.3.1054 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^3}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*sec(f*x+e))^3/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 166

2.3.1055 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^2}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*sec(f*x+e))^2/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 167

2.3.1056 Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sec(e + fx)}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec[^]m-c+d_sec[^]n.txt

Test file number 121

Integral number in file 168

2.3.1057 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec[^]m-c+d_sec[^]n.txt

Test file number 121

Integral number in file 169

2.3.1058 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c+d*sec(f*x+e))^2/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 170

2.3.1059 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(c+d*sec(f*x+e))^3/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 171

2.3.1060 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^3}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*sec(f*x+e))^3/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 172

2.3.1061 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^2}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*sec(f*x+e))^2/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 173

2.3.1062 Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sec(e + fx)}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 174

2.3.1063 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+a*sec(f*x+e))^(3/2)/(c+d*sec(f*x+e)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 175

2.3.1064 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2} (c + d \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+a*sec(f*x+e))^(3/2)/(c+d*sec(f*x+e))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 176

2.3.1065 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2} (c + d \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+a*sec(f*x+e))^(3/2)/(c+d*sec(f*x+e))^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 177

2.3.1066 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^3}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c+d*sec(f*x+e))^3/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 178

2.3.1067 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^2}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c+d*sec(f*x+e))^2/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-^m-c+d_sec-^n.txt

Test file number 121

Integral number in file 179

2.3.1068 Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sec(e + fx)}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 180

2.3.1069 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+a*sec(f*x+e))^(5/2)/(c+d*sec(f*x+e)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 181

2.3.1070 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2} (c + d \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+a*sec(f*x+e))^(5/2)/(c+d*sec(f*x+e))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 182

2.3.1071 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2} (c + d \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+a*sec(f*x+e))^(5/2)/(c+d*sec(f*x+e))^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.2.1-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 121

Integral number in file 183

2.3.1072 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^m}{(c - c \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)*(a+a*sec(f*x+e))^m/(c-c*sec(f*x+e))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,4,1,0]%%}+%%{2,[0,2,1,1]%%}+%%{1,[0,0,1,2]%%} / %%
{1,[0,
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^
n.txt

Test file number 122

Integral number in file 161

2.3.1073 Giac [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^p (c - c \sec(e + fx))}{a + a \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*sec(f*x+e))^p*(c-c*sec(f*x+e))/(a+a*sec(f*x+e)),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,2,0]%%}+%%{1,[0,1,0,0]%%} / %%{2,[0,0,0,1]%%} Err
or: Ba
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^
n.txt

Test file number 122

Integral number in file 176

2.3.1074 Giac [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^p (c - c \sec(e + fx))}{(a + a \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*sec(f*x+e))^p*(c-c*sec(f*x+e))/(a+a*sec(f*x+e))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [0,1,4,0]%%}+%%{1, [0,1,0,0]%%} / %%{4, [0,0,0,2]%%} Er
ror: B
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^
n.txt

Test file number 122

Integral number in file 177

2.3.1075 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(e + fx)}{\sqrt{a + a \sec(e + fx)} \sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)^2/(a+a*sec(f*x+e))^(1/2)/(c-c*sec(f*x+e))^(1/2),x, alg
orithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec^p-a+b_sec^m-c+d_sec^
n.txt

Test file number 122

Integral number in file 183

2.3.1076 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)/(c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec-[^]p-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 122

Integral number in file 240

2.3.1077 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(e + fx)}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(f*x+e)^2/(c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm
="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec-[^]p-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 122

Integral number in file 241

2.3.1078 Giac [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^{3/2}}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*sec(f*x+e))^(3/2)/(c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec-[^]p-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 122

Integral number in file 242

2.3.1079 Giac [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^{5/2}}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*sec(f*x+e))^(5/2)/(c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.2.3-g_sec-[^]p-a+b_sec-[^]m-c+d_sec-[^]n.txt

Test file number 122

Integral number in file 243

2.3.1080 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\sqrt{a + a \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-
.txt

Test file number 123

Integral number in file 148

2.3.1081 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-
.txt

Test file number 123

Integral number in file 156

2.3.1082 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.3.1-a+b_sec-[^]m-d_sec-[^]n-A+B_sec-
.txt

Test file number 123

Integral number in file 164

2.3.1083 Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\sqrt{a + a \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate((A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-[^]m-d_sec-[^]n-A+B_sec+C_sec[^]2-
.txt

Test file number 125

Integral number in file 187

2.3.1084 Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 196

2.3.1085 Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 204

2.3.1086 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{\sqrt{a + a \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(1/2),x
, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 389

2.3.1087 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x
, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 398

2.3.1088 Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c+dx)(B\sec(c+dx)+C\sec^2(c+dx))}{(a+a\sec(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),x
, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 406

2.3.1089 Giac [F(-2)]

Exception generated.

$$\int \frac{A+B\sec(c+dx)+C\sec^2(c+dx)}{\sqrt{a+a\sec(c+dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(1/2),x, algorith
hm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec-^m-d_sec-^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 514

2.3.1090 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 523

2.3.1091 Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 4_Trig_functions/4.5_Secant/4.5.4.2-a+b_sec^m-d_sec^n-A+B_sec+C_sec^2-.txt

Test file number 125

Integral number in file 531

2.3.1092 Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.5_Secant/4.5.7-d_trig-^m-a+b-c_sec-ⁿ-^p.txt

Test file number 126

Integral number in file 83

2.3.1093 Giac [F(-2)]

Exception generated.

$$\int \csc^3(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)^3*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[%%{16384, [5,4]%%},0]: [1,0,%%{-1, [1,0]%%}+%%{-1, [0,1]
%%}}}%
```

input file name 4_Trig_functions/4.5_Secant/4.5.7-d_trig-^m-a+b-c_sec-ⁿ-^p.txt

Test file number 126

Integral number in file 84

2.3.1094 Giac [F(-2)]

Exception generated.

$$\int \csc^5(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csc(f*x+e)^5*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{262144, [6,6]%%}, [12]%%}+%%{%%{1572864, [6,6]%%}, 0
]: [1,0
```

input file name 4_Trig_functions/4.5_Secant/4.5.7-d_trig-[^]m-a+b-c_sec-[^]n-[^]p.txt

Test file number 126

Integral number in file 85

2.3.1095 Giac [F(-2)]

Exception generated.

$$\int \cot^3(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(f*x+e)^3*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.5_Secant/4.5.7-d_trig-[^]m-a+b-c_sec-[^]n-[^]p.txt

Test file number 126

Integral number in file 393

2.3.1096 Giac [F(-2)]

Exception generated.

$$\int \cot^5(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cot(f*x+e)^5*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 4_Trig_functions/4.5_Secant/4.5.7-d_trig-[^]m-a+b-c_sec-[^]n-[^]p.txt

Test file number 126

Integral number in file 394

2.3.1097 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a \csc^4(x)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*csc(x)^4)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.6_Cosecant/4.6.0-a_csc-[^]m-b_trg-[^]n.txt

Test file number 127

Integral number in file 65

2.3.1098 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \csc^4(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*csc(x)^4)^(3/2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.6_Cosecant/4.6.0-a_csc^m-b_trgⁿ.txt

Test file number 127

Integral number in file 66

2.3.1099 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \csc^4(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*csc(x)^4)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.6_Cosecant/4.6.0-a_csc^m-b_trgⁿ.txt

Test file number 127

Integral number in file 67

2.3.1100 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\csc(e + fx)} \sqrt{a + a \csc(e + fx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(csc(f*x+e)^(1/2)*(a+a*csc(f*x+e))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 4_Trig_functions/4.6_Cosecant/4.6.1.2-d_cscⁿ-a+b_csc^m.txt

Test file number 129

Integral number in file 19

2.3.1101 Giac [F(-2)]

Exception generated.

$$\int (a + b \csc^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*csc(d*x+c)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.6_Cosecant/4.6.7-d_trig-^m-a+b-c_csc-^n-^p.txt
```

```
Test file number 134
```

```
Integral number in file 9
```

2.3.1102 Giac [F(-2)]

Exception generated.

$$\int (a + b \csc^2(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*csc(d*x+c)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

```
input file name 4_Trig_functions/4.6_Cosecant/4.6.7-d_trig-^m-a+b-c_csc-^n-^p.txt
```

```
Test file number 134
```

```
Integral number in file 10
```

2.3.1103 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \csc^2(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*csc(d*x+c)^2)^(1/2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 4_Trig_functions/4.6_Cosecant/4.6.7-d_trig-^m-a+b-c_csc-ⁿ-^p.txt

Test file number 134

Integral number in file 12

2.3.1104 Giac [F(-2)]

Exception generated.

$$\int (-1 - \csc^2(x))^{3/2} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate((-1-csc(x)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARx>=(-2*pi/2) ignoredRecursive assumption sageVARx<=(2*pi/2) ignoredi*2*(-1/16*sqrt(tan(1/2*sageVARx)^4+6*tan(1/2*sageVARx)^2+1)*sign(sin(sageVA

input file name 4_Trig_functions/4.6_Cosecant/4.6.7-d_trig-^m-a+b-c_csc-ⁿ-^p.txt

Test file number 134

Integral number in file 25

2.3.1105 Giac [F(-2)]

Exception generated.

$$\int \sqrt{-1 - \csc^2(x)} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate((-1-csc(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: i/2*(2*(2*atan(1/2*(-tan(1/2*sageVARx)^2+sqrt(tan(1/2*sageVARx)^4+6*tan(1/2*sageVARx)^2+1)-1))-1/2*ln(-tan(1/2*sageVARx)^2+sqrt(tan(1/2*sageVARx)^4+6*tan(1/2*sageVARx)^2+1

input file name 4_Trig_functions/4.6_Cosecant/4.6.7-d_trig-^m-a+b-c_csc-ⁿ-^p.txt

Test file number 134

Integral number in file 26

2.3.1106 Giac [F(-2)]

Exception generated.

$$\int \sin^3(a + bx) \sqrt{\sin(2a + 2bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sin(b*x+a)^3*sin(2*b*x+2*a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]ext
_reduce Error: Bad Argument TypeDone
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.1-c_trig-[^]m-d_trig-[^]n.txt

Test file number 135

Integral number in file 90

2.3.1107 Giac [F(-2)]

Exception generated.

$$\int \cos^3(a + bx) \sqrt{\sin(2a + 2bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(b*x+a)^3*sin(2*b*x+2*a)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]ext
_reduce Error: Bad Argument TypeDone
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.1-c_trig-[^]m-d_trig-[^]n.txt

Test file number 135

Integral number in file 178

2.3.1108 Giac [F(-2)]

Exception generated.

$$\int \cos^2(c + dx)(a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^2*(a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Modgcd: no suitable evaluation pointi
ndex.cc index_m operator + Error: Bad Argument ValueDone


```

2.3.1109 Giac [F(-2)]

Exception generated.

$$\int \cos(c + dx)(a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)*(a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Modgcd: no suitable evaluation pointi
ndex.cc index_m operator + Error: Bad Argument ValueDone


```

2.3.1110 Giac [F(-2)]

Exception generated.

$$\int (a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Modgcd: no suitable evaluation pointi
ndex.cc index_m operator + Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 246

2.3.1111 Giac [F(-2)]

Exception generated.

$$\int \sec(c + dx)(a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(d*x+c)*(a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Modgcd: no suitable evaluation pointi
ndex.cc index_m operator + Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 247

2.3.1112 Giac [F(-2)]

Exception generated.

$$\int \sec^2(c + dx)(a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(d*x+c)^2*(a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Modgcd: no suitable evaluation pointi
ndex.cc index_m operator + Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 248

2.3.1113 Giac [F(-2)]

Exception generated.

$$\int \sec^3(c + dx)(a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sec(d*x+c)^3*(a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Modgcd: no suitable evaluation pointi
ndex.cc index_m operator + Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 249

2.3.1114 Giac [F(-2)]

Exception generated.

$$\int \cos^m(c + dx)(a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cos(d*x+c)^m*(a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Modgcd: no suitable evaluation pointi
ndex.cc index_m operator + Error: Bad Argument ValueDone
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txt

Test file number 136

Integral number in file 271

2.3.1115 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(a + bx) \csc(a + bx)}{(c + dx)^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(b*x+a)^2*csc(b*x+a)/(d*x+c)^2,x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x^m_trig^n_trig^p.txt

Test file number 137

Integral number in file 117

2.3.1116 Giac [F(-2)]

Exception generated.

$$\int x^2 \sin^3 \left(a + \sqrt{-\frac{1}{n^2}} \log(cx^n) \right) dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(x^2*sin(a+log(c*x^n)*(-1/n^2)^(1/2))^3,x, algorithm="giac")
```

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: $((-9*i)*\text{sageVARn}^4*\text{sageVARx}^3*\exp((-3*i)*\text{sageVARa})*\exp((3*\text{sageVARn}*\text{abs}(\text{sageVARn})*\ln(\text{sageVARx})+3*\text{abs}(\text{sageVARn})*\ln(\text{sageVARc}))/\text{sageVARn}^2)+27*i*\text{sageVARn}^4*\text{sageVARx}^3*\exp((-i)$

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 41

2.3.1117 Giac [F(-2)]

Exception generated.

$$\int x \sin^3 \left(a + \frac{2}{3} \sqrt{-\frac{1}{n^2}} \log(cx^n) \right) dx = \text{Exception raised: NotImplementedError}$$

[In] integrate(x*sin(a+2/3*log(c*x^n)*(-1/n^2)^(1/2))^3,x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: $((-9*i)*\text{sageVARn}^4*\text{sageVARx}^2*\exp((-3*i)*\text{sageVARa})*\exp((2*\text{sageVARn}*\text{abs}(\text{sageVARn})*\ln(\text{sageVARx})+2*\text{abs}(\text{sageVARn})*\ln(\text{sageVARc}))/\text{sageVARn}^2)+27*i*\text{sageVARn}^4*\text{sageVARx}^2*\exp((-i)$

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 42

2.3.1118 Giac [F(-2)]

Exception generated.

$$\int \sin^3 \left(a + \frac{1}{3} \sqrt{-\frac{1}{n^2}} \log(cx^n) \right) dx = \text{Exception raised: NotImplementedError}$$

[In] integrate(sin(a+1/3*log(c*x^n)*(-1/n^2)^(1/2))^3,x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: $((-9*i)*\text{sageVARn}^4*\text{sageVARx}*\exp((-3*i)*\text{sageVARa})*\exp((\text{sageVARn}*\text{abs}(\text{sageVARn})*\ln($

```
sageVARx)+abs(sageVARn)*ln(sageVARc))/sageVARn^2)+27*i*sageVARn^4*sageVARx*
exp((-i)*sageVAR
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 43

2.3.1119 Giac [F(-2)]

Exception generated.

$$\int \cos^3 \left(a + \frac{1}{3} \sqrt{-\frac{1}{n^2} \log(cx^n)} \right) dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(cos(a+1/3*log(c*x^n)*(-1/n^2)^(1/2))^3,x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: (9*sageVARn^4*sageVARx*exp((-3*i)*sageVARa)*exp((sageVARn*abs(sageVARn)*ln(sageVARx)+abs(sageVARn)*ln(sageVARc))/sageVARn^2)+27*sageVARn^4*sageVARx*exp((-i)*sageVARa)*exp(
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.5_x^m_trig-a+b_log-c_x^n-
^p.txt

Test file number 139

Integral number in file 109

2.3.1120 Giac [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 430

2.3.1121 Giac [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 431

2.3.1122 Giac [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 432

2.3.1123 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: TypeError}$$

[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 433

2.3.1124 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)+(b^2+c^2)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 434

2.3.1125 Giac [F(-2)]

Exception generated.

$$\int \left(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(5/2),x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 437

2.3.1126 Giac [F(-2)]

Exception generated.

$$\int \left(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(3/2),x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 438

2.3.1127 Giac [F(-2)]

Exception generated.

$$\int \sqrt{-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 439

2.3.1128 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*cos(e*x+d)+c*sin(e*x+d)-(b^2+c^2)^(1/2))^(1/2),x, algorithm=
"giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 440

2.3.1129 Giac [F(-2)]

Exception generated.

$$\int \sec^2(x)(a + b \tan(x))^n dx = \text{Exception raised: TypeError}$$

[In] integrate(sec(x)^2*(a+b*tan(x))^n,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 693

2.3.1130 Giac [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^3}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsin(a*x)^3/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 31

2.3.1131 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^5/arcsin(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 100

2.3.1132 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arcsin(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 102

2.3.1133 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arcsin(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 108

2.3.1134 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arcsin(a*x)^(7/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 114

2.3.1135 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a+b*arcsin(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 161

2.3.1136 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 196

2.3.1137 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x/(a+b*arcsin(c*x))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 201

2.3.1138 Giac [F(-2)]

Exception generated.

$$\int (dx)^{5/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-^n.txt

Test file number 142

Integral number in file 209

2.3.1139 Giac [F(-2)]

Exception generated.

$$\int (dx)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
 c_x-ⁿ.txt

Test file number 142

Integral number in file 210

2.3.1140 Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
 c_x-ⁿ.txt

Test file number 142

Integral number in file 211

2.3.1141 Giac [F(-2)]

Exception generated.

$$\int (dx)^{3/2}(a + b \arcsin(cx))^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x)^(3/2)*(a+b*arcsin(c*x))^3,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
 c_x-ⁿ.txt

Test file number 142

Integral number in file 215

2.3.1142 Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + b \arcsin(cx))^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x)^(1/2)*(a+b*arcsin(c*x))^3,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
 c_x-ⁿ.txt

Test file number 142

Integral number in file 216

2.3.1143 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 x^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 57

2.3.1144 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + b \arcsin(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 58

2.3.1145 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 59

2.3.1146 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^6,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 60

2.3.1147 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^8,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 61

2.3.1148 Giac [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d - c^2 dx^2}(a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 62

2.3.1149 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 dx^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 63

2.3.1150 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d - c^2 dx^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 64

2.3.1151 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 65

2.3.1152 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 66

2.3.1153 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 67

2.3.1154 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 70

2.3.1155 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 71

2.3.1156 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 72

2.3.1157 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 73

2.3.1158 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^8,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 74

2.3.1159 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^10,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 75

2.3.1160 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^12,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 76

2.3.1161 Giac [F(-2)]

Exception generated.

$$\int x^7(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^7*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 77

2.3.1162 Giac [F(-2)]

Exception generated.

$$\int x^5(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 78

2.3.1163 Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 79

2.3.1164 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 80

2.3.1165 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 81

2.3.1166 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 82

2.3.1167 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 83

2.3.1168 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 86

2.3.1169 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 87

2.3.1170 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 88

2.3.1171 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 89

2.3.1172 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^8,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 90

2.3.1173 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^10,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 91

2.3.1174 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^12,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 92

2.3.1175 Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 93

2.3.1176 Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 94

2.3.1177 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 95

2.3.1178 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 96

2.3.1179 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 97

2.3.1180 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 98

2.3.1181 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi - c^2 \pi x^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))*(-pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 100

2.3.1182 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)}{\sqrt{1 - a^2 x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arcsin(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 102

2.3.1183 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 109

2.3.1184 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 111

2.3.1185 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c*x))/x/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 115

2.3.1186 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c*x))/x^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 116

2.3.1187 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^3 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c*x))/x^3/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 117

2.3.1188 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c*x))/x^4/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 118

2.3.1189 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 119

2.3.1190 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 120

2.3.1191 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 121

2.3.1192 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 122

2.3.1193 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 123

2.3.1194 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 124

2.3.1195 Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^6*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 129

2.3.1196 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 130

2.3.1197 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 131

2.3.1198 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 132

2.3.1199 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 133

2.3.1200 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 134

2.3.1201 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 135

2.3.1202 Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 149

2.3.1203 Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 150

2.3.1204 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d - c^2 dx^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 151

2.3.1205 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 153

2.3.1206 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 154

2.3.1207 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 x^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 210

2.3.1208 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d - c^2 x^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 212

2.3.1209 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 x^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 213

2.3.1210 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 214

2.3.1211 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 215

2.3.1212 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 216

2.3.1213 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 217

2.3.1214 Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 218

2.3.1215 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 220

2.3.1216 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 221

2.3.1217 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 222

2.3.1218 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 223

2.3.1219 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d}+e_x²⁻
^{p-a+b_arcsin-c_x-ⁿ}.txt

Test file number 143

Integral number in file 224

2.3.1220 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d}+e_x²⁻
^{p-a+b_arcsin-c_x-ⁿ}.txt

Test file number 143

Integral number in file 225

2.3.1221 Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 226

2.3.1222 Giac [F(-2)]

Exception generated.

$$\int x (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 228

2.3.1223 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 229

2.3.1224 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 230

2.3.1225 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d}+e_x²⁻
^{p-a+b_arcsin-c_x-ⁿ}.txt

Test file number 143

Integral number in file 231

2.3.1226 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d}+e_x²⁻
^{p-a+b_arcsin-c_x-ⁿ}.txt

Test file number 143

Integral number in file 232

2.3.1227 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 233

2.3.1228 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 234

2.3.1229 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 236

2.3.1230 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c*x))^2/x/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 240

2.3.1231 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c*x))^2/x^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 241

2.3.1232 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^3 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c*x))^2/x^3/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 242

2.3.1233 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^4 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c*x))^2/x^4/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 243

2.3.1234 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 244

2.3.1235 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 245

2.3.1236 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 246

2.3.1237 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 247

2.3.1238 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 248

2.3.1239 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 249

2.3.1240 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 254

2.3.1241 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 255

2.3.1242 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 256

2.3.1243 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 257

2.3.1244 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt

Test file number 143

Integral number in file 258

2.3.1245 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 259

2.3.1246 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)^2}{\sqrt{1 - a^2 x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arcsin(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 265

2.3.1247 Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 282

2.3.1248 Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 283

2.3.1249 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 284

2.3.1250 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 286

2.3.1251 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))^2}{(d - c^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 287

2.3.1252 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{5/2} \arcsin(ax)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(5/2)*arcsin(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 295

2.3.1253 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 296

2.3.1254 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 297

2.3.1255 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arcsin(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 304

2.3.1256 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1-c^2x^2}}{a+b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 317

2.3.1257 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x(a+b\arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 321

2.3.1258 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x^3(a+b\arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(1/2)/x^3/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 323

2.3.1259 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 329

2.3.1260 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x^3(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(3/2)/x^3/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 331

2.3.1261 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 337

2.3.1262 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x^3(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(5/2)/x^3/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 339

2.3.1263 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-a^2x^2} \arcsin(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsin(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 342

2.3.1264 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1-c^2x^2}(a+b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5/(a+b*arcsin(c*x))/(-c^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 349

2.3.1265 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+b\arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a+b*arcsin(c*x))/(-c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 351

2.3.1266 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+b\arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a+b*arcsin(c*x))/(-c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 355

2.3.1267 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{3/2} (a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 358

2.3.1268 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{3/2} (a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 360

2.3.1269 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{5/2} (a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 363

2.3.1270 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{5/2} (a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 365

2.3.1271 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1-c^2x^2)^{5/2}}{a+b\arcsin(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 367
```

2.3.1272 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1-c^2x^2)^{3/2}}{a+b\arcsin(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

```
Test file number 143
```

```
Integral number in file 368
```

2.3.1273 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{1 - c^2 x^2}}{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 369

2.3.1274 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{1 - c^2 x^2}}{(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 380

2.3.1275 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 - c^2 x^2}}{(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 381

2.3.1276 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - c^2 x^2}}{x(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 385

2.3.1277 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x^3(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(1/2)/x^3/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt
```

Test file number 143

Integral number in file 387

2.3.1278 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1-c^2x^2)^{3/2}}{(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt
```

Test file number 143

Integral number in file 389

2.3.1279 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt
```

```
Test file number 143
```

```
Integral number in file 394
```

2.3.1280 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x^3(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(3/2)/x^3/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt
```

```
Test file number 143
```

```
Integral number in file 396
```

2.3.1281 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1-c^2x^2)^{5/2}}{(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt
```

```
Test file number 143
```

```
Integral number in file 398
```

2.3.1282 Giac [F(-2)]

Exception generated.

$$\int \frac{(1-c^2x^2)^{5/2}}{x(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x^-m-d+e_x^2-
^p-a+b_arcsin-c_x^-n.txt
```

```
Test file number 143
```

```
Integral number in file 403
```


2.3.1283 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x^3 (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(5/2)/x^3/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 405

2.3.1284 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1 - c^2 x^2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5/(a+b*arcsin(c*x))^2/(-c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 408

2.3.1285 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a+b*arcsin(c*x))^2/(-c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 410

2.3.1286 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a+b*arcsin(c*x))^2/(-c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

```
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt
```

Test file number 143

Integral number in file 414

2.3.1287 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1 - c^2 x^2)^{3/2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 417

2.3.1288 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{3/2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 419

2.3.1289 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1-c^2x^2)^{3/2}(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 421

2.3.1290 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1-c^2x^2)^{5/2}(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 424

2.3.1291 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{5/2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 426

2.3.1292 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{5/2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 428

2.3.1293 Giac [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-c^2*d*x^2+d)/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 435

2.3.1294 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((-c^2*d*x^2+d)^2/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 440

2.3.1295 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 442

2.3.1296 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 443

2.3.1297 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 447

2.3.1298 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 448

2.3.1299 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 451

2.3.1300 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 452

2.3.1301 Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d-c^2x^2}(a+b\arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 483

2.3.1302 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d-c^2x^2}(a+b\arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 484

2.3.1303 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^n/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 485

2.3.1304 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^n/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 486

2.3.1305 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 488

2.3.1306 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 489

2.3.1307 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^n/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d}+e_x²⁻
^{p-a+b_arcsin-c_x-ⁿ.txt}

Test file number 143

Integral number in file 490

2.3.1308 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^n/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^{m-d}+e_x²⁻
^{p-a+b_arcsin-c_x-ⁿ.txt}

Test file number 143

Integral number in file 491

2.3.1309 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 493

2.3.1310 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 494

2.3.1311 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^n/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 495

2.3.1312 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^n/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x²-^p-a+b_arcsin-c_x-ⁿ.txt

Test file number 143

Integral number in file 496

2.3.1313 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 498

2.3.1314 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a+b\arcsin(cx))}{d+ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 624

2.3.1315 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 626

2.3.1316 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(e*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
^p-a+b_arcsin-c_x-^n.txt

Test file number 143

Integral number in file 703

2.3.1317 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d - c^2 x^2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(a+b*arcsin(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 31

2.3.1318 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d - c^2 x^2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arcsin(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 32

2.3.1319 Giac [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{d - c^2dx^2}(a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(a+b*arcsin(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 33

2.3.1320 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2dx^2}(a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 34

2.3.1321 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsin(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 35

2.3.1322 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 36

2.3.1323 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 37

2.3.1324 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 38

2.3.1325 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 39

2.3.1326 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functi-
ons.txt

Test file number 144

Integral number in file 40

2.3.1327 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 41

2.3.1328 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 42

2.3.1329 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 43

2.3.1330 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(f + gx)\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))/(g*x+f)/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 47

2.3.1331 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(f + gx)^2 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsin(c*x))/(g*x+f)^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 48

2.3.1332 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 49

2.3.1333 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 50

2.3.1334 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 51

2.3.1335 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(f + gx)(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))/(g*x+f)/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 52

2.3.1336 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^4(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^4*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 53

2.3.1337 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 54

2.3.1338 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 55

2.3.1339 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 56

2.3.1340 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(f + gx)(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsin(c*x))/(g*x+f)/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 57

2.3.1341 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(a+b*arcsin(c*x))^2*(-c^2*d*x^2+d)^(1/2),x, algorithm="
giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funct-
ions.txt

Test file number 144

Integral number in file 58

2.3.1342 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arcsin(c*x))^2*(-c^2*d*x^2+d)^(1/2),x, algorithm="
giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funct-
ions.txt

Test file number 144

Integral number in file 59

2.3.1343 Giac [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)*(a+b*arcsin(c*x))^2*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 60

2.3.1344 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsin(c*x))^2*(-c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 61

2.3.1345 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="
giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funct-
ions.txt

Test file number 144

Integral number in file 62

2.3.1346 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="
giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funct-
ions.txt

Test file number 144

Integral number in file 63

2.3.1347 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 64

2.3.1348 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 65

2.3.1349 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="
giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funct-
ions.txt

Test file number 144

Integral number in file 66

2.3.1350 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="
giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funct-
ions.txt

Test file number 144

Integral number in file 67

2.3.1351 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 68

2.3.1352 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 69

2.3.1353 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(f + gx)\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsin(c*x))^2/(g*x+f)/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 73

2.3.1354 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(f + gx)^2 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsin(c*x))^2/(g*x+f)^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error:
Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 74

2.3.1355 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 75

2.3.1356 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 76

2.3.1357 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 77

2.3.1358 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(f + gx)(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsin(c*x))^2/(g*x+f)/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error:
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 78

2.3.1359 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 79

2.3.1360 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 80

2.3.1361 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 81

2.3.1362 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^5,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 95

2.3.1363 Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^5,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 104

2.3.1364 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin\left(\frac{c}{x}\right)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsin(c/x))/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansi
on Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 374

2.3.1365 Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} (1 - a^2 x^2)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 463

2.3.1366 Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} (1 - a^2 x^2)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
tions.txt

Test file number 144

Integral number in file 464

2.3.1367 Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} \sqrt{1-a^2x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_func-
 tions.txt

Test file number 144

Integral number in file 465

2.3.1368 Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^3}{x^5} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccos(a*x)^3/x^5,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
 c_x-^n.txt

Test file number 145

Integral number in file 31

2.3.1369 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^5/arccos(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 100

2.3.1370 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arccos(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 102

2.3.1371 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arccos(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 108

2.3.1372 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3/arccos(a*x)^(7/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 114

2.3.1373 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a+b*arccos(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 161

2.3.1374 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x/(a+b*arccos(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 196

2.3.1375 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/x/(a+b*arccos(c*x))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-^n.txt

Test file number 145

Integral number in file 201

2.3.1376 Giac [F(-2)]

Exception generated.

$$\int (dx)^{5/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-^n.txt

Test file number 145

Integral number in file 209

2.3.1377 Giac [F(-2)]

Exception generated.

$$\int (dx)^{3/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
 c_x-[^]n.txt

Test file number 145

Integral number in file 210

2.3.1378 Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx} (a + b \arccos(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccos(c*x))^2*(d*x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
 c_x-[^]n.txt

Test file number 145

Integral number in file 211

2.3.1379 Giac [F(-2)]

Exception generated.

$$\int (dx)^{3/2} (a + b \arccos(cx))^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x)^(3/2)*(a+b*arccos(c*x))^3,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
c_x-[^]n.txt

Test file number 145

Integral number in file 215

2.3.1380 Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx} (a + b \arccos(cx))^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccos(c*x))^3*(d*x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
c_x-[^]n.txt

Test file number 145

Integral number in file 216

2.3.1381 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d - c^2 x^2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(a+b*arccos(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 1

2.3.1382 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d - c^2 x^2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arccos(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 2

2.3.1383 Giac [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{d - c^2x^2}(a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(a+b*arccos(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 3

2.3.1384 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2x^2}(a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccos(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 4

2.3.1385 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arccos(cx))}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccos(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 5

2.3.1386 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 6

2.3.1387 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 7

2.3.1388 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 8

2.3.1389 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2=INT(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 9

2.3.1390 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 10

2.3.1391 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 11

2.3.1392 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 12

2.3.1393 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 13

2.3.1394 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(f + gx)\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccos(c*x))/(g*x+f)/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 17

2.3.1395 Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos\left(\frac{a}{x}\right)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(arccos(a/x)/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansion
Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 56

2.3.1396 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{c + a^2 c x^2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 200

2.3.1397 Giac [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2}\arctan(ax)dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arctan(a*x)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 202

2.3.1398 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2}\arctan(ax)dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 203

2.3.1399 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 204

2.3.1400 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)*(a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 205

2.3.1401 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)*(a^2*c*x^2+c)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 206

2.3.1402 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)*(a^2*c*x^2+c)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 207

2.3.1403 Giac [F(-2)]

Exception generated.

$$\int x^3(c + a^2cx^2)^{3/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a^2*c*x^2+c)^(3/2)*arctan(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 208

2.3.1404 Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 210

2.3.1405 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 211

2.3.1406 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 212

2.3.1407 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 213

2.3.1408 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 214

2.3.1409 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 215

2.3.1410 Giac [F(-2)]

Exception generated.

$$\int x^3 (c + a^2cx^2)^{5/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a^2*c*x^2+c)^(5/2)*arctan(a*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 216

2.3.1411 Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 218

2.3.1412 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 219

2.3.1413 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 220

2.3.1414 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 221

2.3.1415 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 222

2.3.1416 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 223

2.3.1417 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 224

2.3.1418 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 232

2.3.1419 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*arctan(a*x)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 240

2.3.1420 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 242

2.3.1421 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 253

2.3.1422 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 254

2.3.1423 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 255

2.3.1424 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{c + a^2 cx^2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arctan(a*x)^2*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 307

2.3.1425 Giac [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arctan(a*x)^2*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
 c_x-^p.txt

Test file number 150

Integral number in file 309

2.3.1426 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(a*x)^2*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
 c_x-^p.txt

Test file number 150

Integral number in file 310

2.3.1427 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^2}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^2*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 311

2.3.1428 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^2}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^2*(a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 312

2.3.1429 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^2*(a^2*c*x^2+c)^(1/2)/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 313

2.3.1430 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^2*(a^2*c*x^2+c)^(1/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 314

2.3.1431 Giac [F(-2)]

Exception generated.

$$\int x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 315

2.3.1432 Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{3/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 317

2.3.1433 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 318

2.3.1434 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^2}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 319

2.3.1435 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 320

2.3.1436 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 321

2.3.1437 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 322

2.3.1438 Giac [F(-2)]

Exception generated.

$$\int x^3 (c + a^2cx^2)^{5/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 323

2.3.1439 Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 325

2.3.1440 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 326

2.3.1441 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^2}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 327

2.3.1442 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^2}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 328

2.3.1443 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 329

2.3.1444 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 330

2.3.1445 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^2}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^2/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 331

2.3.1446 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^2}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^2/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 339

2.3.1447 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^2}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*arctan(a*x)^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 347

2.3.1448 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^2}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 349

2.3.1449 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 359

2.3.1450 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 360

2.3.1451 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{c + a^2 cx^2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arctan(a*x)^3*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 412

2.3.1452 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arctan(a*x)^3*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 414

2.3.1453 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^3*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 415

2.3.1454 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^3}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^3*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 416

2.3.1455 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^3}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^3*(a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 417

2.3.1456 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^3*(a^2*c*x^2+c)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 418

2.3.1457 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^3}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^3*(a^2*c*x^2+c)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 419

2.3.1458 Giac [F(-2)]

Exception generated.

$$\int x^3(c + a^2cx^2)^{3/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 420

2.3.1459 Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 422

2.3.1460 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 423

2.3.1461 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^3}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 424

2.3.1462 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^3}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 425

2.3.1463 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 426

2.3.1464 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^3}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 427

2.3.1465 Giac [F(-2)]

Exception generated.

$$\int x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 428

2.3.1466 Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 430

2.3.1467 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 431

2.3.1468 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^3}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 432

2.3.1469 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^3}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 433

2.3.1470 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 434

2.3.1471 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^3}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 435

2.3.1472 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^3}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^3/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 436

2.3.1473 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^3}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^3/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 444

2.3.1474 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*arctan(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 450

2.3.1475 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 452

2.3.1476 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^{3/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 462

2.3.1477 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*arctan(a*x)^3*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 463

2.3.1478 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{3/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 508

2.3.1479 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 510

2.3.1480 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 512

2.3.1481 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2cx^2)^{5/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5/(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 514

2.3.1482 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 516

2.3.1483 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 518

2.3.1484 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{5/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 520

2.3.1485 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{5/2}}{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 528

2.3.1486 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 529

2.3.1487 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 530

2.3.1488 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{3/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 579

2.3.1489 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 581

2.3.1490 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 583

2.3.1491 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 585

2.3.1492 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2 cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 587

2.3.1493 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 589

2.3.1494 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 591

2.3.1495 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 593

2.3.1496 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+a^2cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 595

2.3.1497 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{5/2}}{\arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 604

2.3.1498 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 605

2.3.1499 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 606

2.3.1500 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{3/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 658

2.3.1501 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 660

2.3.1502 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 662

2.3.1503 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 664

2.3.1504 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2 cx^2)^{5/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 666

2.3.1505 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 668

2.3.1506 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 670

2.3.1507 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 672

2.3.1508 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c+a^2cx^2)^{5/2}}{\arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 680

2.3.1509 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 681

2.3.1510 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m\sqrt{c + a^2cx^2}}{\arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 682

2.3.1511 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^(m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 721

2.3.1512 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 723

2.3.1513 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 724

2.3.1514 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 725

2.3.1515 Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 727

2.3.1516 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 728

2.3.1517 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 729

2.3.1518 Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 731

2.3.1519 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 732

2.3.1520 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 734

2.3.1521 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 743

2.3.1522 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 751

2.3.1523 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 797

2.3.1524 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 799

2.3.1525 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 800

2.3.1526 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctan(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 801

2.3.1527 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^(m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 802

2.3.1528 Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 804

2.3.1529 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 805

2.3.1530 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 806

2.3.1531 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 807

2.3.1532 Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 809

2.3.1533 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 810

2.3.1534 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 811

2.3.1535 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 813

2.3.1536 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 822

2.3.1537 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 829

2.3.1538 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 831

2.3.1539 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 878

2.3.1540 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 880

2.3.1541 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 881

2.3.1542 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arctan(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 882

2.3.1543 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 883

2.3.1544 Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 885

2.3.1545 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 886

2.3.1546 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 887

2.3.1547 Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^(m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 888

2.3.1548 Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 890

2.3.1549 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 891

2.3.1550 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 892

2.3.1551 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 894

2.3.1552 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 909

2.3.1553 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 944

2.3.1554 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 948

2.3.1555 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 952

2.3.1556 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2 cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 962

2.3.1557 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 964

2.3.1558 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+a^2cx^2)^{5/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 967

2.3.1559 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 969

2.3.1560 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 971

2.3.1561 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1007

2.3.1562 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1011

2.3.1563 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1015

2.3.1564 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1025

2.3.1565 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1027

2.3.1566 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1029

2.3.1567 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 c x^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1031

2.3.1568 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 c x^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1034

2.3.1569 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1036

2.3.1570 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1038

2.3.1571 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1040

2.3.1572 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1076

2.3.1573 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1080

2.3.1574 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1084

2.3.1575 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1094

2.3.1576 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1096

2.3.1577 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1098

2.3.1578 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1100

2.3.1579 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1103

2.3.1580 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt

Test file number 150

Integral number in file 1105

2.3.1581 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1107

2.3.1582 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 1109

2.3.1583 Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(a + bx)}{c + d\sqrt{x}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(b*x+a)/(c+d*x^(1/2)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
 ning, replacing 0 by -24, a substitution variable should perhaps be purged.
 Warnin

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.5_u-a+b_arctan-
 c+d_x-[^]p.txt

Test file number 151

Integral number in file 58

2.3.1584 Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(a + bx)}{c + \frac{d}{\sqrt{x}}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctan(b*x+a)/(c+d/x^(1/2)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
 ning, replacing 0 by -24, a substitution variable should perhaps be purged.
 Warnin

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.5_u-a+b_arctan-
 c+d_x-[^]p.txt

Test file number 151

Integral number in file 59

2.3.1585 Giac [F(-2)]

Exception generated.

$$\int e^{i \arctan(ax)} x^4 dx = \text{Exception raised: TypeError}$$

[In] integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)*x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 1

2.3.1586 Giac [F(-2)]

Exception generated.

$$\int e^{i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)*x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 3

2.3.1587 Giac [F(-2)]

Exception generated.

$$\int e^{3i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((1+I*a*x)^3/(a^2*x^2+1)^(3/2)*x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 19

2.3.1588 Giac [F(-2)]

Exception generated.

$$\int e^{-i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(1+I*a*x)*(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 35

2.3.1589 Giac [F(-2)]

Exception generated.

$$\int e^{-i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/(1+I*a*x)*(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 36

2.3.1590 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(1+I*a*x)*(a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 40

2.3.1591 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(1+I*a*x)*(a^2*x^2+1)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 42

2.3.1592 Giac [F(-2)]

Exception generated.

$$\int e^{-3i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(1+I*a*x)^3*(a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 52

2.3.1593 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)*x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 61

2.3.1594 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)*x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 62

2.3.1595 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 63

2.3.1596 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 64

2.3.1597 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 65

2.3.1598 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 66

2.3.1599 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 67

2.3.1600 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 68

2.3.1601 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^6} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^6,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 69

2.3.1602 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)*x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 70

2.3.1603 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)*x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 71

2.3.1604 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)*x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 72

2.3.1605 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 73

2.3.1606 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 74

2.3.1607 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 75

2.3.1608 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 76

2.3.1609 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 77

2.3.1610 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 78

2.3.1611 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)*x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 79

2.3.1612 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)*x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 80

2.3.1613 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)*x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 81

2.3.1614 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 82

2.3.1615 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 83

2.3.1616 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 84

2.3.1617 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 85

2.3.1618 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 86

2.3.1619 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 87

2.3.1620 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 88

2.3.1621 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 89

2.3.1622 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

[In] integrate(x/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 90

2.3.1623 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 91

2.3.1624 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 92

2.3.1625 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 93

2.3.1626 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 94

2.3.1627 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 95

2.3.1628 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 96

2.3.1629 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i\arctan(ax)}x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 97

2.3.1630 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i\arctan(ax)}x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 98

2.3.1631 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 99

2.3.1632 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 100

2.3.1633 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 101

2.3.1634 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 102

2.3.1635 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 103

2.3.1636 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 104

2.3.1637 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 105

2.3.1638 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 81, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 106

2.3.1639 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 107

2.3.1640 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

[In] integrate(x/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 81, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 108

2.3.1641 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 81, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 109

2.3.1642 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 81, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 110

2.3.1643 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 81, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 111

2.3.1644 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 81, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 112

2.3.1645 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 81, a substitution variable should perhaps be purged
.Warni
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 113

2.3.1646 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 81, a substitution variable should perhaps be purged
.Warni
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 114

2.3.1647 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{4}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)*x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 128

2.3.1648 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{4}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)*x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 129

2.3.1649 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{4}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 130

2.3.1650 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{4}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 131

2.3.1651 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{4}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 132

2.3.1652 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{4}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 133

2.3.1653 Giac [F(-2)]

Exception generated.

$$\int e^{3i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate((1+I*a*x)^3/(a^2*x^2+1)^(3/2)*x^m,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
 verse_tangent.txt

Test file number 152

Integral number in file 140

2.3.1654 Giac [F(-2)]

Exception generated.

$$\int e^{-3i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/(1+I*a*x)^3*(a^2*x^2+1)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
 verse_tangent.txt

Test file number 152

Integral number in file 143

2.3.1655 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)*x^m,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 144

2.3.1656 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)*x^m,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by 23, a substitution variable should perhaps be purged
.Warni
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 145

2.3.1657 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)*x^m,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 146

2.3.1658 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 147

2.3.1659 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -46, a substitution variable should perhaps be purge
d.Warn

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 148

2.3.1660 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -8, a substitution variable should perhaps be purged
.Warni

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 149

2.3.1661 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{4}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)*x^m,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0]W
arning, replacing 0 by -28, a substitution variable should perhaps be purge
d.Warn
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 152

2.3.1662 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(a+bx)} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)*x^2,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by -27, a substitution variable should perhaps be pur
ged.Wa
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 216

2.3.1663 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(a+bx)} x dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)*x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by -27, a substitution variable should perhaps be pur
ged.Wa
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 217

2.3.1664 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by -27, a substitution variable should perhaps be pur
ged.Wa
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 218

2.3.1665 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(a+bx)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by -27, a substitution variable should perhaps be pur
ged.Wa
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 219

2.3.1666 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(a+bx)}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)/x^2,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by -27, a substitution variable should perhaps be pur
ged.Wa
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 220

2.3.1667 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(a+bx)} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)*x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 221

2.3.1668 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(a+bx)} x dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)*x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 222

2.3.1669 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 223

2.3.1670 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(a+bx)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 224

2.3.1671 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(a+bx)}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 225

2.3.1672 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(a+bx)} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 226

2.3.1673 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(a+bx)} x dx = \text{Exception raised: TypeError}$$

[In] integrate(x/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 227

2.3.1674 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(a+bx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by -27, a substitution variable should perhaps be purg
ed.Wa

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 228

2.3.1675 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(a+bx)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)/x,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 229

2.3.1676 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(a+bx)}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)/x^2,x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 14, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 230

2.3.1677 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(a+bx)} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 71, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 231

2.3.1678 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(a+bx)} x dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 71, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 232

2.3.1679 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(a+bx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 71, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 233

2.3.1680 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(a+bx)}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)/x,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 71, a substitution variable should perhaps be purg
ed.War
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 234

2.3.1681 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(a+bx)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:The choice was done assuming 0=[0,0,0
]Warning, replacing 0 by 71, a substitution variable should perhaps be purged.
 War

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 235

2.3.1682 Giac [F(-2)]

Exception generated.

$$\int e^{\arctan(ax)} (c + a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(arctan(a*x))*(a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_inverse_tangent.txt

Test file number 152

Integral number in file 253

2.3.1683 Giac [F(-2)]

Exception generated.

$$\int e^{\arctan(ax)} \sqrt{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(arctan(a*x))*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 254

2.3.1684 Giac [F(-2)]

Exception generated.

$$\int e^{2\arctan(ax)} (c + a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(2*arctan(a*x))*(a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 267

2.3.1685 Giac [F(-2)]

Exception generated.

$$\int e^{2\arctan(ax)} \sqrt{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(2*arctan(a*x))*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 268

2.3.1686 Giac [F(-2)]

Exception generated.

$$\int e^{-\arctan(ax)} (c + a^2cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/exp(arctan(a*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 281

2.3.1687 Giac [F(-2)]

Exception generated.

$$\int e^{-\arctan(ax)} \sqrt{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)/exp(arctan(a*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 282

2.3.1688 Giac [F(-2)]

Exception generated.

$$\int e^{-2\arctan(ax)} (c + a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)/exp(2*arctan(a*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 295

2.3.1689 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \arctan(ax)} \sqrt{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(1/2)/exp(2*arctan(a*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 296

2.3.1690 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(1+I*a*x)*(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 315

2.3.1691 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 332

2.3.1692 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(1+I*a*x)*(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-
verse_tangent.txt

Test file number 152

Integral number in file 333

2.3.1693 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(1+I*a*x)^3*(a^2*x^2+1)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 335

2.3.1694 Giac [F(-2)]

Exception generated.

$$\int e^{n \arctan(ax)} (c + a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctan(a*x))*(a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 348

2.3.1695 Giac [F(-2)]

Exception generated.

$$\int e^{n \arctan(ax)} \sqrt{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctan(a*x))*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 349

2.3.1696 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \arctan(ax)} x^3}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctan(a*x))*x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 353

2.3.1697 Giac [F(-2)]

Exception generated.

$$\int e^{n \arctan(ax)} \sqrt[3]{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctan(a*x))*(a^2*c*x^2+c)^(1/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 360

2.3.1698 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-5i \arctan(ax)} x^2}{(c + a^2 cx^2)^{27/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2/(1+I*a*x)^5*(a^2*x^2+1)^(5/2)/(a^2*c*x^2+c)^(27/2),x, algorit
hm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:The choice was done assuming 0=[0,0,0
]ext_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0,0]e
xt_red
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.6_Exponentials_of_in-verse_tangent.txt

Test file number 152

Integral number in file 385

2.3.1699 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(a + bx)}{c + d\sqrt{x}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccot(b*x+a)/(c+d*x^(1/2)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
 ning, replacing 0 by -24, a substitution variable should perhaps be purged.
 Warnin

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotan-
 gent_functions.txt

Test file number 154

Integral number in file 111

2.3.1700 Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(a + bx)}{c + \frac{d}{\sqrt{x}}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccot(b*x+a)/(c+d/x^(1/2)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0]War
 ning, replacing 0 by -24, a substitution variable should perhaps be purged.
 Warnin

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotan-
 gent_functions.txt

Test file number 154

Integral number in file 112

2.3.1701 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansion
on Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 8

2.3.1702 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec^{-1}(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))^2/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:ln of unsigned or minus infinity Error: Bad Argument Value
e

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 19

2.3.1703 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \sec^{-1}(cx))^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x/(a+b*arcsec(c*x))^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 45

2.3.1704 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{d + ex} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/(e*x+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 60

2.3.1705 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/(e*x+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 61

2.3.1706 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/(e*x+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 62

2.3.1707 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \sec^{-1}(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*x^2+d)*(a+b*arcsec(c*x))/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansion
on Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 79

2.3.1708 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \sec^{-1}(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*x^2+d)^2*(a+b*arcsec(c*x))/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansion
on Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 89

2.3.1709 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 91

2.3.1710 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \sec^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 92

2.3.1711 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 93

2.3.1712 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/x/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 94

2.3.1713 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 95

2.3.1714 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \sec^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 98

2.3.1715 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 99

2.3.1716 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 101

2.3.1717 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 102

2.3.1718 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 103

2.3.1719 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^3*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 105

2.3.1720 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 106

2.3.1721 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 107

2.3.1722 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 108

2.3.1723 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 109

2.3.1724 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 110

2.3.1725 Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + b \sec^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^11*(a+b*arcsec(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 170

2.3.1726 Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b \sec^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^7*(a+b*arcsec(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.1_u-a+b_arcsec-c_x-
^n.txt

Test file number 156

Integral number in file 171

2.3.1727 Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{-1}(\sqrt{x})}{x} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate(arcsec(x^(1/2))/x,x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: Invalid series expansion: non tractable function acos at +infinity

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.2_Inverse_secant_functions.txt

Test file number 157

Integral number in file 6

2.3.1728 Giac [F(-2)]

Exception generated.

$$\int x^3 \sec^{-1}(a + bx)^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arcsec(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command: INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.5_Inverse_secant/5.5.2_Inverse_secant_functions.txt

Test file number 157

Integral number in file 27

2.3.1729 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansion
Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 8

2.3.1730 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \csc^{-1}(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))^2/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:ln of unsigned or minus infinity Error: Bad Argument Value
e

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 19

2.3.1731 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{d + ex} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccsc(c*x))/(e*x+d),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
 c_x-ⁿ.txt

Test file number 158

Integral number in file 48

2.3.1732 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccsc(c*x))/(e*x+d)^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
 c_x-ⁿ.txt

Test file number 158

Integral number in file 49

2.3.1733 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/(e*x+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 50

2.3.1734 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \csc^{-1}(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*x^2+d)*(a+b*arccsc(c*x))/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansi
on Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 86

2.3.1735 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \operatorname{csc}^{-1}(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*x^2+d)^2*(a+b*arccsc(c*x))/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansi
on Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 96

2.3.1736 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \operatorname{csc}^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 98

2.3.1737 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 99

2.3.1738 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 100

2.3.1739 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/x/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 101

2.3.1740 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 102

2.3.1741 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 105

2.3.1742 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 106

2.3.1743 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 108

2.3.1744 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 109

2.3.1745 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 110

2.3.1746 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 112

2.3.1747 Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 113

2.3.1748 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 114

2.3.1749 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 115

2.3.1750 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 116

2.3.1751 Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 117

2.3.1752 Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + b \csc^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^11*(a+b*arccsc(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 174

2.3.1753 Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b \csc^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^7*(a+b*arccsc(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.1_u-a+b_arccsc-
c_x-^n.txt

Test file number 158

Integral number in file 175

2.3.1754 Giac [F(-2)]

Exception generated.

$$\int \frac{\csc^{-1}(\sqrt{x})}{x} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate(arccsc(x^(1/2))/x,x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: Inval
id series expansion: non tractable function asin at +infinity

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.2_Inverse_cose-
cant_functions.txt

Test file number 159

Integral number in file 6

2.3.1755 Giac [F(-2)]

Exception generated.

$$\int x^3 \csc^{-1}(a + bx)^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*arccsc(b*x+a)^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 5_Inverse_trig_functions/5.6_Inverse_cosecant/5.6.2_Inverse_cose-
cant_functions.txt

Test file number 159

Integral number in file 27

2.3.1756 Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cosh^2(c + dx) \coth(c + dx)}{a + b \sinh(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x+e)^3*cosh(d*x+c)^2*coth(d*x+c)/(a+b*sinh(d*x+c)),x, algorith
m="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 430

2.3.1757 Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \operatorname{csch}^3(c + dx) \operatorname{sech}^2(c + dx)}{a + b \sinh(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x+e)^2*csch(d*x+c)^3*sech(d*x+c)^2/(a+b*sinh(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt

Test file number 160

Integral number in file 496

2.3.1758 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^
^n^p.txt

Test file number 164

Integral number in file 68

2.3.1759 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}^3(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)^3*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 69

2.3.1760 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}^5(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)^5*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 70

2.3.1761 Giac [F(-2)]

Exception generated.

$$\int \sinh^4(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sinh(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 71

2.3.1762 Giac [F(-2)]

Exception generated.

$$\int \sinh^2(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sinh(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 72

2.3.1763 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 73

2.3.1764 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}^2(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 74

2.3.1765 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}^4(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 75

2.3.1766 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 78

2.3.1767 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}^3(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)^3*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 79

2.3.1768 Giac [F(-2)]

Exception generated.

$$\int \sinh^4(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sinh(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 82

2.3.1769 Giac [F(-2)]

Exception generated.

$$\int \sinh^2(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sinh(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 83

2.3.1770 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 84

2.3.1771 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}^2(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[4,2,0]%%}+%%{%%{[4,0]:[1,0,%%{-1,[1]%%}]%%},[3,2,0]%%
}+%%{
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 85

2.3.1772 Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}^4(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(csch(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[8,6,0]%%}+%%{%%{[8,0]:[1,0,%%{-1,[1]%%}]%%},[7,6,0]%%
}+%%{
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 86

2.3.1773 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*sinh(d*x+c)^2)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
^p.txt

Test file number 164

Integral number in file 87

2.3.1774 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(x))^{3/2} dx = \text{Exception raised: AttributeError}$$

[In] `integrate((a+b*sinh(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: AttributeError >> type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
^p.txt

Test file number 164

Integral number in file 97

2.3.1775 Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(sinh(f*x+e)/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b_sinhⁿ⁻}
^{p.txt}

Test file number 164

Integral number in file 99

2.3.1776 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b_sinhⁿ⁻}
^{p.txt}

Test file number 164

Integral number in file 104

2.3.1777 Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sinh(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b_sinhⁿ⁻}
^{p.txt}

Test file number 164

Integral number in file 107

2.3.1778 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(csch(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 110

2.3.1779 Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sinh(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 113

2.3.1780 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 114

2.3.1781 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(csch(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 115

2.3.1782 Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^5(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(sinh(f*x+e)^5/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 116

2.3.1783 Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sinh(f*x+e)^4/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 121

2.3.1784 Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(sinh(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 122

2.3.1785 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 123

2.3.1786 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(csch(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 124

2.3.1787 Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{a + b \sinh^3(c + dx)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(sinh(d*x+c)^2/(a+b*sinh(d*x+c)^3),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 175

2.3.1788 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sech(f*x+e)*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 354

2.3.1789 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}^3(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sech(f*x+e)^3*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 355

2.3.1790 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}^5(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sech(f*x+e)^5*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 356

2.3.1791 Giac [F(-2)]

Exception generated.

$$\int \cosh^4(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cosh(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 357

2.3.1792 Giac [F(-2)]

Exception generated.

$$\int \cosh^2(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cosh(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 358

2.3.1793 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 359

2.3.1794 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}^2(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sech(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 360

2.3.1795 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}^4(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sech(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 361

2.3.1796 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sech(f*x+e)*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 364

2.3.1797 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}^3(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sech(f*x+e)^3*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 365

2.3.1798 Giac [F(-2)]

Exception generated.

$$\int \cosh^4(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cosh(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 368

2.3.1799 Giac [F(-2)]

Exception generated.

$$\int \cosh^2(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cosh(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 369

2.3.1800 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command: INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 370

2.3.1801 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}^2(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sech(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command: INPUT:sage2OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 371

2.3.1802 Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}^4(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(sech(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage3:=type(sage2)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 372

2.3.1803 Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cosh(f*x+e)/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 374

2.3.1804 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 379

2.3.1805 Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(cosh(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 382

2.3.1806 Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(cosh(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 388

2.3.1807 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 389

2.3.1808 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sech(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
^p.txt

Test file number 164

Integral number in file 390

2.3.1809 Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^5(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(cosh(f*x+e)^5/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
^p.txt

Test file number 164

Integral number in file 391

2.3.1810 Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cosh(f*x+e)^4/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 396

2.3.1811 Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(cosh(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 397

2.3.1812 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 398

2.3.1813 Giac [F(-2)]

Exception generated.

$$\int \frac{\text{sech}^2(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(sech(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 399

2.3.1814 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tanh(f*x+e)^5/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b}_sinhⁿ⁻
^p.txt

Test file number 164

Integral number in file 437

2.3.1815 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tanh(f*x+e)^3/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b}_sinhⁿ⁻
^p.txt

Test file number 164

Integral number in file 438

2.3.1816 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tanh(f*x+e)/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 439

2.3.1817 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 440

2.3.1818 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^3/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b}_sinhⁿ⁻
^p.txt

Test file number 164

Integral number in file 441

2.3.1819 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tanh(f*x+e)^4/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b}_sinhⁿ⁻
^p.txt

Test file number 164

Integral number in file 442

2.3.1820 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tanh(f*x+e)^2/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b}_sinhⁿ
^p.txt

Test file number 164

Integral number in file 443

2.3.1821 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^2/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b}_sinhⁿ
^p.txt

Test file number 164

Integral number in file 444

2.3.1822 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^4(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^4/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b}_sinhⁿ⁻
^p.txt

Test file number 164

Integral number in file 445

2.3.1823 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^6(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^6/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b}_sinhⁿ⁻
^p.txt

Test file number 164

Integral number in file 446

2.3.1824 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(f*x+e)^5/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 447

2.3.1825 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(f*x+e)^3/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 448

2.3.1826 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tanh(f*x+e)/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 449

2.3.1827 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 450

2.3.1828 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^3/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 451

2.3.1829 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(f*x+e)^2/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 452

2.3.1830 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^2/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 453

2.3.1831 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^4(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^4/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 454

2.3.1832 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^6(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^6/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 455

2.3.1833 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^8(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^8/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 456

2.3.1834 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sinh^2(e + fx)} \tanh^5(e + fx) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(1/2)*tanh(f*x+e)^5,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{262144
, [4, 13, 14]%%}%+%%{%%{-1835008, [1]%%}, [4, 13, 13]%%}%+%%{%%{5505024, [2]%%
%}, [4, 13,
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 457

2.3.1835 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sinh^2(e + fx)} \tanh^3(e + fx) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(1/2)*tanh(f*x+e)^3,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{16384,
[4, 9, 10]%%}%+%%{%%{-81920, [1]%%}, [4, 9, 9]%%}%+%%{%%{163840, [2]%%}, [4, 9
, 8]%%}%+%
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 458

2.3.1836 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sinh^2(e + fx)} \tanh(e + fx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(1/2)*tanh(f*x+e),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 459

2.3.1837 Giac [F(-2)]

Exception generated.

$$\int \coth(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 460

2.3.1838 Giac [F(-2)]

Exception generated.

$$\int \coth^5(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^5*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage3:=type(sage2);;OUTPUT>Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 462

2.3.1839 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sinh^2(e + fx)} \tanh^4(e + fx) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(1/2)*tanh(f*x+e)^4,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{65536,
[4,11,12]%%}%+%%{%%{-393216,[1]%%},[4,11,11]%%}%+%%{%%{983040,[2]%%},
[4,11,10]
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 463

2.3.1840 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sinh^2(e + fx)} \tanh^2(e + fx) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(1/2)*tanh(f*x+e)^2,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
p.txt

Test file number 164

Integral number in file 464

2.3.1841 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
p.txt

Test file number 164

Integral number in file 465

2.3.1842 Giac [F(-2)]

Exception generated.

$$\int \coth^2(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[4,0,4]%%}+%%{%%{[4,0]:[1,0,%%{-1,[1]%%}]%%},[3,0,4]%%
}+%%{
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 466

2.3.1843 Giac [F(-2)]

Exception generated.

$$\int \coth^4(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{2,[8,0,8]%%}+%%{%%{[16,0]:[1,0,%%{-1,[1]%%}]%%},[7,0,8]%%
}+%%{
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 467

2.3.1844 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(e + fx))^{3/2} \tanh^3(e + fx) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(3/2)*tanh(f*x+e)^3,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 469

2.3.1845 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(e + fx))^{3/2} \tanh(e + fx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(3/2)*tanh(f*x+e),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 470

2.3.1846 Giac [F(-2)]

Exception generated.

$$\int \coth(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 471

2.3.1847 Giac [F(-2)]

Exception generated.

$$\int \coth^3(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^3*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{256, [1]%%}, [6,14,6]%%}+%%{%%{-768, [2]%%}, [6,14,5]%%
}+%%{
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 472

2.3.1848 Giac [F(-2)]

Exception generated.

$$\int \coth^5(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^5*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{2048, [1]%%}, [10,22,10]%%}+%%{%%{-10240, [2]%%}, [10,22
,9]%%
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 473

2.3.1849 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(e + fx))^{3/2} \tanh^4(e + fx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(3/2)*tanh(f*x+e)^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 474

2.3.1850 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(e + fx))^{3/2} \tanh^2(e + fx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(3/2)*tanh(f*x+e)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 475

2.3.1851 Giac [F(-2)]

Exception generated.

$$\int (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 476

2.3.1852 Giac [F(-2)]

Exception generated.

$$\int \coth^2(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^2*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[4,0,4]%%}+%%{%%{[4,0]:[1,0,%%{-1,[1]%%}]%%},[3,0,4]%%
}+%%{
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 477

2.3.1853 Giac [F(-2)]

Exception generated.

$$\int \coth^4(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^4*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[8,0,10]%%}+%%{%%{[8,0]:[1,0,%%{-1,[1]%%}]%%},[7,0,10]%%
}+%%
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 478

2.3.1854 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tanh(f*x+e)/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b_sinhⁿ⁻}
^{p.txt}

Test file number 164

Integral number in file 481

2.3.1855 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^{m-a+b_sinhⁿ⁻}
^{p.txt}

Test file number 164

Integral number in file 482

2.3.1856 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 483

2.3.1857 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^5(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^5/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 484

2.3.1858 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:
INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 487

2.3.1859 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(coth(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 488

2.3.1860 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^4(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^4/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 489

2.3.1861 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tanh(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 491

2.3.1862 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(tanh(f*x+e)/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 492

2.3.1863 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(coth(f*x+e)/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 493

2.3.1864 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 494

2.3.1865 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^5(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^5/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 495

2.3.1866 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(tanh(f*x+e)^4/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
^p.txt

Test file number 164

Integral number in file 496

2.3.1867 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(tanh(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
^p.txt

Test file number 164

Integral number in file 497

2.3.1868 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 498

2.3.1869 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(coth(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 499

2.3.1870 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^4(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(coth(f*x+e)^4/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 500

2.3.1871 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tanh(f*x+e)/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 503

2.3.1872 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(coth(f*x+e)/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 504

2.3.1873 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 505

2.3.1874 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^5(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(f*x+e)^5/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 506

2.3.1875 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(f*x+e)^4/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinh^n-
^p.txt

Test file number 164

Integral number in file 507

2.3.1876 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(tanh(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
^p.txt

Test file number 164

Integral number in file 508

2.3.1877 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-
^p.txt

Test file number 164

Integral number in file 509

2.3.1878 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^2/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 510

2.3.1879 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^4(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(f*x+e)^4/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.7_hyper^m-a+b_sinhⁿ-^p.txt

Test file number 164

Integral number in file 511

2.3.1880 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \cosh(c + dx)}{(a + bx^2)^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(x^4*cosh(d*x+c)/(b*x^2+a)^2,x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.2-e_x-^m-a+b_x^n-
^p_cosh.txt

Test file number 166

Integral number in file 65

2.3.1881 Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{x(a + bx^2)^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cosh(d*x+c)/x/(b*x^2+a)^2,x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.2-e_x-^m-a+b_x^n-
^p_cosh.txt

Test file number 166

Integral number in file 70

2.3.1882 Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{x(a + bx^3)^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cosh(d*x+c)/x/(b*x^3+a)^2,x, algorithm="giac")
```

[Out] Exception raised: AttributeError >> type

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.2-e_x-^m-a+b_xⁿ-^p_cosh.txt

Test file number 166

Integral number in file 106

2.3.1883 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \cosh(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+a*cosh(d*x+c))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[147456,0]:[1,0,-2]%%},[0]%%},0]:[1,0,%%{-1,[1]%%}]}%%

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 47

2.3.1884 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a \cosh^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*cosh(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.5_Hyperbolic_cosine_functions.txt

Test file number 169

Integral number in file 125

2.3.1885 Giac [F(-2)]

Exception generated.

$$\int (a + b \cosh^2(x))^{3/2} dx = \text{Exception raised: AttributeError}$$

[In] `integrate((a+b*cosh(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: AttributeError >> type

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.7_hyper^m-a+b_coshⁿ-^p.txt

Test file number 170

Integral number in file 46

2.3.1886 Giac [F(-2)]

Exception generated.

$$\int \frac{c + dx}{\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x+c)/(b*tanh(f*x+e))^(1/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x^m-a+b_tanhⁿ.txt

Test file number 171

Integral number in file 19

2.3.1887 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((d*x+c)^2/(b*tanh(f*x+e))^(1/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.1-c+d_x-^m-a+b_tanh-
^n.txt

Test file number 171

Integral number in file 23

2.3.1888 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \tanh(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*tanh(d*x+c))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tan-
gent_functions.txt

Test file number 172

Integral number in file 17

2.3.1889 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tanh(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*tanh(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tan-
gent_functions.txt

Test file number 172

Integral number in file 67

2.3.1890 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tanh(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*tanh(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.2_Hyperbolic_tan-
gent_functions.txt

Test file number 172

Integral number in file 68

2.3.1891 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c+dx)}{a+b \tanh^3(c+dx)} dx = \text{Exception raised: AttributeError}$$

[In] `integrate(csch(d*x+c)^3/(a+b*tanh(d*x+c)^3),x, algorithm="giac")`

[Out] Exception raised: AttributeError >> type

input file name 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/6.3.7-d_hyper-^m-
a+b-c_tanh-ⁿ-^p.txt

Test file number 173

Integral number in file 79

2.3.1892 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \operatorname{coth}(c+dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 5

2.3.1893 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*coth(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 6

2.3.1894 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*coth(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 7

2.3.1895 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c))^(7/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 8

2.3.1896 Giac [F(-2)]

Exception generated.

$$\int (b \coth(c + dx))^{4/3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*coth(d*x+c))^(4/3),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Minimal poly. in rootof must be fract
ion free Error: Bad Argument ValueMinimal poly. in rootof must be fraction
free E

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 9

2.3.1897 Giac [F(-2)]

Exception generated.

$$\int (b \coth(c + dx))^{2/3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((b*coth(d*x+c))^(2/3),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Minimal poly. in rootof must be fract
ion free Error: Bad Argument ValueMinimal poly. in rootof must be fraction
free E

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 10

2.3.1898 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{2/3}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c))^(2/3),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Minimal poly. in rootof must be fract
ion free Error: Bad Argument ValueMinimal poly. in rootof must be fraction
free E

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 13

2.3.1899 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{4/3}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c))^(4/3),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Minimal poly. in rootof must be fract
ion free Error: Bad Argument ValueMinimal poly. in rootof must be fraction
free E

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 14

2.3.1900 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \coth^3(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c)^3)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
gent_functions.txt

Test file number 175

Integral number in file 31

2.3.1901 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth^3(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(b*coth(d*x+c)^3)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
 or: Bad Argument Value

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
 gent_functions.txt

Test file number 175

Integral number in file 32

2.3.1902 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \coth(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*coth(d*x+c))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotan-
 gent_functions.txt

Test file number 175

Integral number in file 87

2.3.1903 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \coth(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*coth(d*x+c))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 88

2.3.1904 Giac [F(-2)]

Exception generated.

$$\int \coth^3(x) \sqrt{a + b \coth^2(x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)^3*(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-^m-a+b-c_coth-^n-^p.txt

Test file number 176

Integral number in file 16

2.3.1905 Giac [F(-2)]

Exception generated.

$$\int \coth^2(x) \sqrt{a + b \coth^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(x)^2*(a+b*coth(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 17

2.3.1906 Giac [F(-2)]

Exception generated.

$$\int \coth(x) \sqrt{a + b \coth^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(x)*(a+b*coth(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 18

2.3.1907 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \coth^2(x)} \tanh^2(x) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*coth(x)^2)^(1/2)*tanh(x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 21

2.3.1908 Giac [F(-2)]

Exception generated.

$$\int \coth^3(x) (a + b \coth^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)^3*(a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 22

2.3.1909 Giac [F(-2)]

Exception generated.

$$\int \coth^2(x) (a + b \coth^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)^2*(a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 23

2.3.1910 Giac [F(-2)]

Exception generated.

$$\int \coth(x) (a + b \coth^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)*(a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 24

2.3.1911 Giac [F(-2)]

Exception generated.

$$\int (a + b \coth^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 25

2.3.1912 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(x)}{\sqrt{a + b \coth^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)^3/(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 32

2.3.1913 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(x)}{\sqrt{a + b \coth^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)^2/(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-^m-
a+b-c_coth-ⁿ-^p.txt

Test file number 176

Integral number in file 33

2.3.1914 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{\sqrt{a + b \coth^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(tanh(x)/(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-^m-
a+b-c_coth-ⁿ-^p.txt

Test file number 176

Integral number in file 36

2.3.1915 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(x)}{\sqrt{a + b \coth^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(tanh(x)^2/(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 37

2.3.1916 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{(a + b \coth^2(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(tanh(x)/(a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-[^]m-
a+b-c_coth-[^]n-[^]p.txt

Test file number 176

Integral number in file 41

2.3.1917 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{(a + b \coth^2(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(tanh(x)/(a+b*coth(x)^2)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.7-d_hyper-^m-
a+b-c_coth-ⁿ-^p.txt

Test file number 176

Integral number in file 46

2.3.1918 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - \operatorname{asech}(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a-a*sech(d*x+c))^(1/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_se-
cant_functions.txt

Test file number 179

Integral number in file 84

2.3.1919 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{sech}(2 \log(cx))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/sech(2*log(c*x))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly exception caught Unable to c
onvert to real %%{poly1[1.000000000000000000000000000000,0.000000000000000
000000}
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_se-
cant_functions.txt

Test file number 179

Integral number in file 160

2.3.1920 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\operatorname{sech}(2 \log(cx))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/sech(2*log(c*x))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly exception caught Unable to c
onvert to real %%{poly1[1.000000000000000000000000000000,0.000000000000000
000000}
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.3_Hyperbolic_se-
cant_functions.txt

Test file number 179

Integral number in file 162

2.3.1921 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh^5(x) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sech(x)^2)^(1/2)*tanh(x)^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 176

2.3.1922 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh^4(x) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sech(x)^2)^(1/2)*tanh(x)^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 177

2.3.1923 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh^3(x) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*sech(x)^2)^(1/2)*tanh(x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 178

2.3.1924 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh^2(x) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*sech(x)^2)^(1/2)*tanh(x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 179

2.3.1925 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh(x) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sech(x)^2)^(1/2)*tanh(x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 180

2.3.1926 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sech(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 181

2.3.1927 Giac [F(-2)]

Exception generated.

$$\int \coth(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(x)*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 182

2.3.1928 Giac [F(-2)]

Exception generated.

$$\int \coth^2(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(x)^2*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 183

2.3.1929 Giac [F(-2)]

Exception generated.

$$\int \coth^3(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(x)^3*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 184

2.3.1930 Giac [F(-2)]

Exception generated.

$$\int \coth^4(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(x)^4*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 185

2.3.1931 Giac [F(-2)]

Exception generated.

$$\int \coth^5(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)^5*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 186

2.3.1932 Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{sech}^2(x))^{3/2} \tanh^3(x) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*sech(x)^2)^(3/2)*tanh(x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 187

2.3.1933 Giac [F(-2)]

Exception generated.

$$\int (a + b\operatorname{sech}^2(x))^{3/2} \tanh^2(x) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*sech(x)^2)^(3/2)*tanh(x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 188

2.3.1934 Giac [F(-2)]

Exception generated.

$$\int (a + b\operatorname{sech}^2(x))^{3/2} \tanh(x) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*sech(x)^2)^(3/2)*tanh(x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 189

2.3.1935 Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{sech}^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*sech(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 190

2.3.1936 Giac [F(-2)]

Exception generated.

$$\int \coth(x) (a + b \operatorname{sech}^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(x)*(a+b*sech(x)^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{2048, [4,6]%%}+%%{%%{6144, [1]%%}, [4,5]%%}+%%{%%{6144, [2
]%%},

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 191

2.3.1937 Giac [F(-2)]

Exception generated.

$$\int \coth^2(x) (a + b \operatorname{sech}^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(x)^2*(a+b*sech(x)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{2048,[4,6]%%}+%%{%%{6144,[1]%%},[4,5]%%}+%%{%%{6144,[2
]%%},
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 192

2.3.1938 Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{sech}^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*sech(d*x+c)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 193

2.3.1939 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(x)^5/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-^n-^p.txt

Test file number 180

Integral number in file 194

2.3.1940 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(x)^4/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-^n-^p.txt

Test file number 180

Integral number in file 195

2.3.1941 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(x)^3/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-^n-^p.txt

Test file number 180

Integral number in file 196

2.3.1942 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(x)^2/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-^n-^p.txt

Test file number 180

Integral number in file 197

2.3.1943 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(tanh(x)/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 198

2.3.1944 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 199

2.3.1945 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(x)/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 200

2.3.1946 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(x)^2/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-[^]m-a+b-
c_sech-[^]n-[^]p.txt

Test file number 180

Integral number in file 201

2.3.1947 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(x)^3/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-^n-^p.txt

Test file number 180

Integral number in file 202

2.3.1948 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(x)}{(a + b\operatorname{sech}^2(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(x)^5/(a+b*sech(x)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[4,1]%%}+%%{%%{[-4,0]:[1,0,%%{-1,[1]%%}}%%},[3,1]%%}+%
%%{8,[

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-^n-^p.txt

Test file number 180

Integral number in file 203

2.3.1949 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(x)}{(a + b\operatorname{sech}^2(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(tanh(x)^4/(a+b*sech(x)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 204

2.3.1950 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(x)}{(a + b\operatorname{sech}^2(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(x)/(a+b*sech(x)^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 209

2.3.1951 Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^6(x)}{(a + b\operatorname{sech}^2(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(tanh(x)^6/(a+b*sech(x)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 211

2.3.1952 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(x)}{(a + b\operatorname{sech}^2(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(coth(x)/(a+b*sech(x)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 218

2.3.1953 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{sech}^2(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*sech(d*x+c)^2)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.5_Hyperbolic_secant/6.5.7-d_hyper-^m-a+b-
c_sech-ⁿ-^p.txt

Test file number 180

Integral number in file 220

2.3.1954 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{csch}(2 \log(cx))}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/csch(2*log(c*x))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly exception caught Unable to c
onvert to real %%{poly1[1.00000000000000000000000000000000,0.0000000000000000
000000}
```

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.3_Hyperbolic_cose-
cant_functions.txt

Test file number 183

Integral number in file 134

2.3.1955 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\operatorname{csch}(2 \log(cx))}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/csch(2*log(c*x))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly exception caught Unable to c
 onvert to real %%{poly1[1.000000000000000000000000000000,0.0000000000000000
 000000

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.3_Hyperbolic_cose-
 cant_functions.txt

Test file number 183

Integral number in file 136

2.3.1956 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{csch}^{\frac{3}{2}}(2 \log(cx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/csch(2*log(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly exception caught Unable to c
 onvert to real %%{poly1[1.000000000000000000000000000000,0.0000000000000000
 000000

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.3_Hyperbolic_cose-
 cant_functions.txt

Test file number 183

Integral number in file 148

2.3.1957 Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{csch}^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*csch(d*x+c)^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.7-d_hyper-[^]m-
a+b-c_csch-[^]n-[^]p.txt

Test file number 184

Integral number in file 9

2.3.1958 Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{csch}^2(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*csch(d*x+c)^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type
```

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.7-d_hyper-[^]m-
a+b-c_csch-[^]n-[^]p.txt

Test file number 184

Integral number in file 10

2.3.1959 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{csch}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*csch(d*x+c)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.7-d_hyper-[^]m-
a+b-c_csch-[^]n-[^]p.txt

Test file number 184

Integral number in file 11

2.3.1960 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{csch}^2(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*csch(d*x+c)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/6.6.7-d_hyper-[^]m-
a+b-c_csch-[^]n-[^]p.txt

Test file number 184

Integral number in file 12

2.3.1961 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(a+bx)\operatorname{sech}(a+bx)}{x^2} dx = \text{Exception raised: AttributeError}$$

[In] `integrate(csch(b*x+a)^2*sech(b*x+a)/x^2,x, algorithm="giac")`

[Out] Exception raised: AttributeError >> type

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 493

2.3.1962 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{csch}^3(a+bx)\operatorname{sech}^2(a+bx) dx = \text{Exception raised: AttributeError}$$

[In] `integrate(x^2*csch(b*x+a)^3*sech(b*x+a)^2,x, algorithm="giac")`

[Out] Exception raised: AttributeError >> type

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 516

2.3.1963 Giac [F(-2)]

Exception generated.

$$\int x \cosh(a+bx) \sinh^{\frac{5}{2}}(a+bx) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*cosh(b*x+a)*sinh(b*x+a)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1
 ,1,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 544

2.3.1964 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[1,0]%%}+%%{1,[0,1]%%},[2]%%}+%%{%%{[2,0]:[1,0,%%{-1,[2

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 757

2.3.1965 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[2,0]%%}+%%{2,[1,1]%%}+%%{1,[0,2]%%},[4]%%}+%%{%%{[%%{

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 758

2.3.1966 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2))^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3,0]%%}+%%{3, [2,1]%%}+%%{3, [1,2]%%}+%%{1, [0,3]%%}, [6]

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 759

2.3.1967 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2))^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [4,0]%%}+%%{4, [3,1]%%}+%%{6, [2,2]%%}+%%{4, [1,3]%%}+%%{4, [1,3]%%}, [6]

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 760

2.3.1968 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2))^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{8,[4,0]%%}+%%{16,[3,1]%%}+%%{-8,[3,0]%%}+%%{-8,[2,1
]%%}+

```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 772

2.3.1969 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*cosh(x)+c*sinh(x)+(b^2-c^2)^(1/2))^(5/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{32,[5,0]%%}+%%{96,[4,1]%%}+%%{-32,[4,0]%%}+%%{64,[3
,2]%%

```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 773

2.3.1970 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(-\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*cosh(x)+c*sinh(x)-(b^2-c^2)^(1/2))^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{8,[4,0]%%}+%%{16,[3,1]%%}+%%{-8,[3,0]%%}+%%{-8,[2,1
]%%}+

```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 778

2.3.1971 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(-\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(b*cosh(x)+c*sinh(x)-(b^2-c^2)^(1/2))^(5/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{32,[5,0]%%}+%%{96,[4,1]%%}+%%{-32,[4,0]%%}+%%{64,[3
,2]%%

```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_func-
tions.txt

Test file number 185

Integral number in file 779

2.3.1972 Giac [F(-2)]

Exception generated.

$$\int (a + b \cosh(c + dx) \sinh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*cosh(d*x+c)*sinh(d*x+c))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_funct-
ions.txt

Test file number 185

Integral number in file 861

2.3.1973 Giac [F(-2)]

Exception generated.

$$\int (a + b \cosh(c + dx) \sinh(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*cosh(d*x+c)*sinh(d*x+c))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_funct-
ions.txt

Test file number 185

Integral number in file 862

2.3.1974 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cosh(c + dx) \sinh(c + dx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*cosh(d*x+c)*sinh(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 863

2.3.1975 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \cosh(c + dx) \sinh(c + dx)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*cosh(d*x+c)*sinh(d*x+c))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 864

2.3.1976 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(c + dx) \sinh(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*cosh(d*x+c)*sinh(d*x+c))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 865

2.3.1977 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(c + dx) \sinh(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(1/(a+b*cosh(d*x+c)*sinh(d*x+c))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT>Error: Bad Argument Type

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 866

2.3.1978 Giac [F(-2)]

Exception generated.

$$\int \cosh(x) \sinh(x) \sqrt{a + b \sinh^2(x)} dx = \text{Exception raised: AttributeError}$$

[In] `integrate(cosh(x)*sinh(x)*(a+b*sinh(x)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: AttributeError >> type

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 1028

2.3.1979 Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(c + dx)}{\sqrt{a \cosh^2(c + dx)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(coth(d*x+c)/(a*cosh(d*x+c)^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 1038

2.3.1980 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arcsinh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 1

2.3.1981 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsinh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 2

2.3.1982 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arcsinh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 3

2.3.1983 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arcsinh(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 12

2.3.1984 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsinh(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 13

2.3.1985 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arcsinh(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 14

2.3.1986 Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arcsinh(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 15

2.3.1987 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arcsinh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 22

2.3.1988 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsinh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 23

2.3.1989 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arcsinh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 24

2.3.1990 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^3/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 29

2.3.1991 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{x^5} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^3/x^5,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 31

2.3.1992 Giac [F(-2)]

Exception generated.

$$\int x^5 \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5*arcsinh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 32

2.3.1993 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arcsinh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 33

2.3.1994 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsinh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 34

2.3.1995 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arcsinh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 35

2.3.1996 Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arcsinh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 36

2.3.1997 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^4}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arcsinh(a*x)^4/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 40

2.3.1998 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5/arcsinh(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 43

2.3.1999 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsinh(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 45

2.3.2000 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\operatorname{arcsinh}(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5/arcsinh(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 52

2.3.2001 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsinh(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 54

2.3.2002 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsinh(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 61

2.3.2003 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsinh(a*x)^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 68

2.3.2004 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsinh(a*x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 75

2.3.2005 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsinh(a*x)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 81

2.3.2006 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*arcsinh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 86

2.3.2007 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsinh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 87

2.3.2008 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arcsinh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 88

2.3.2009 Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arcsinh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 89

2.3.2010 Giac [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arcsinh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 90

2.3.2011 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arcsinh(a*x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 93

2.3.2012 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsinh(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 100

2.3.2013 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsinh(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
d_x^m-a+b_arcsinh-c_x^n.txt

Test file number 186

Integral number in file 106

2.3.2014 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/arcsinh(a*x)^(7/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 112

2.3.2015 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^n dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arcsinh(a*x)^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 130

2.3.2016 Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 139

2.3.2017 Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a+b*arcsinh(c*x))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 142

2.3.2018 Giac [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a+b*arcsinh(c*x))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 143

2.3.2019 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arcsinh(c*x))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.2-
 d_x-^m-a+b_arcsinh-c_x-^n.txt

Test file number 186

Integral number in file 144

2.3.2020 Giac [F(-2)]

Exception generated.

$$\int x^4(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 1

2.3.2021 Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 2

2.3.2022 Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 3

2.3.2023 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 4

2.3.2024 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 5

2.3.2025 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 6

2.3.2026 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 7

2.3.2027 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 8

2.3.2028 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 9

2.3.2029 Giac [F(-2)]

Exception generated.

$$\int x^4(d + c^2 dx^2)^2(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^4*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 10

2.3.2030 Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 11

2.3.2031 Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 12

2.3.2032 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 13

2.3.2033 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 14

2.3.2034 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 15

2.3.2035 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 16

2.3.2036 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 17

2.3.2037 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 18

2.3.2038 Giac [F(-2)]

Exception generated.

$$\int x^4(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 19

2.3.2039 Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 20

2.3.2040 Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 21

2.3.2041 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 22

2.3.2042 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 23

2.3.2043 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 24

2.3.2044 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 25

2.3.2045 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 26

2.3.2046 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 27

2.3.2047 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + \operatorname{barcsinh}(cx))}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*(a+b*arcsinh(c*x))/(c^2*d*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 28

2.3.2048 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 29

2.3.2049 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 37

2.3.2050 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(d + c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 38

2.3.2051 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(d + c^2dx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 47

2.3.2052 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 55

2.3.2053 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 57

2.3.2054 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 58

2.3.2055 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 59

2.3.2056 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 60

2.3.2057 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 61

2.3.2058 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))*(pi*c^2*x^2+pi)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 62

2.3.2059 Giac [F(-2)]

Exception generated.

$$\int x^3 (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 63

2.3.2060 Giac [F(-2)]

Exception generated.

$$\int x(\pi + c^2\pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 65

2.3.2061 Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2\pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 66

2.3.2062 Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 67

2.3.2063 Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 68

2.3.2064 Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 69

2.3.2065 Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 70

2.3.2066 Giac [F(-2)]

Exception generated.

$$\int x^3 (\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 71

2.3.2067 Giac [F(-2)]

Exception generated.

$$\int x (\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 73

2.3.2068 Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 74

2.3.2069 Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 75

2.3.2070 Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 76

2.3.2071 Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 77

2.3.2072 Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 78

2.3.2073 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{\sqrt{\pi + c^2 \pi x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 80

2.3.2074 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{\sqrt{\pi + c^2\pi x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 82

2.3.2075 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 90

2.3.2076 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 91

2.3.2077 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 92

2.3.2078 Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^6*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 100

2.3.2079 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 101

2.3.2080 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 103

2.3.2081 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)}{\sqrt{1 + a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arcsinh(a*x)/(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 113

2.3.2082 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + c^2 x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 120

2.3.2083 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d + c^2 x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 122

2.3.2084 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 123

2.3.2085 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 124

2.3.2086 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}(a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 125

2.3.2087 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}(a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 126

2.3.2088 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2)/x^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 127

2.3.2089 Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 128

2.3.2090 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 130

2.3.2091 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 131

2.3.2092 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 132

2.3.2093 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 133

2.3.2094 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 134

2.3.2095 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 135

2.3.2096 Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 136

2.3.2097 Giac [F(-2)]

Exception generated.

$$\int x (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 138

2.3.2098 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 139

2.3.2099 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 140

2.3.2100 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 141

2.3.2101 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 142

2.3.2102 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 143

2.3.2103 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \operatorname{arcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 145

2.3.2104 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 147

2.3.2105 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 155

2.3.2106 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 156

2.3.2107 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 157

2.3.2108 Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a + \operatorname{barcsinh}(cx))}{(d + c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^6*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 165

2.3.2109 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{(d + c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 166

2.3.2110 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 168

2.3.2111 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)}{\sqrt{1 + a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arcsinh(a*x)/(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 178

2.3.2112 Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 185

2.3.2113 Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 186

2.3.2114 Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 187

2.3.2115 Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 191

2.3.2116 Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 192

2.3.2117 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 193

2.3.2118 Giac [F(-2)]

Exception generated.

$$\int x^4(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 198

2.3.2119 Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x-²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 199

2.3.2120 Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 200

2.3.2121 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 201

2.3.2122 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 202

2.3.2123 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 203

2.3.2124 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 204

2.3.2125 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 205

2.3.2126 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2^p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 206

2.3.2127 Giac [F(-2)]

Exception generated.

$$\int x^4 (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2^p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 207

2.3.2128 Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 208

2.3.2129 Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 209

2.3.2130 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 210

2.3.2131 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 211

2.3.2132 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 212

2.3.2133 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 213

2.3.2134 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 214

2.3.2135 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 215

2.3.2136 Giac [F(-2)]

Exception generated.

$$\int x^4(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 216

2.3.2137 Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 217

2.3.2138 Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 218

2.3.2139 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 219

2.3.2140 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 220

2.3.2141 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 221

2.3.2142 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 222

2.3.2143 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 223

2.3.2144 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 224

2.3.2145 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + \operatorname{barcsinh}(cx))^2}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 225

2.3.2146 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 226

2.3.2147 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))^2}{(d + c^2 dx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 234

2.3.2148 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 235

2.3.2149 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 244

2.3.2150 Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 252

2.3.2151 Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 253

2.3.2152 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 254

2.3.2153 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 258

2.3.2154 Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d+c^2x^2}(a+\operatorname{arcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 260

2.3.2155 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d+c^2x^2}(a+\operatorname{arcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 261

2.3.2156 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 262

2.3.2157 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 263

2.3.2158 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 264

2.3.2159 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^2*(c^2*d*x^2+d)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 265

2.3.2160 Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 266

2.3.2161 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 268

2.3.2162 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 269

2.3.2163 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 270

2.3.2164 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 271

2.3.2165 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 272

2.3.2166 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 273

2.3.2167 Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 274

2.3.2168 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 276

2.3.2169 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 277

2.3.2170 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 278

2.3.2171 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 279

2.3.2172 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 280

2.3.2173 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 281

2.3.2174 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)^2}{\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arcsinh(a*x)^2/(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 283

2.3.2175 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^2}{x^2\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsinh(a*x)^2/x^2/(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 288

2.3.2176 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-^p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 290

2.3.2177 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-^p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 292

2.3.2178 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 300

2.3.2179 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 301

2.3.2180 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 302

2.3.2181 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 310

2.3.2182 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{arcsinh}(cx))^2}{(d + c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 312

2.3.2183 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^2}{(c + a^2cx^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsinh(a*x)^2/(a^2*c*x^2+c)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 320

2.3.2184 Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 321

2.3.2185 Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 322

2.3.2186 Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d + c^2 dx^2} (a + b \operatorname{arcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 323

2.3.2187 Giac [F(-2)]

Exception generated.

$$\int (c + a^2 cx^2)^3 \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^3*arcsinh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 328

2.3.2188 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^2*arcsinh(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 329

2.3.2189 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)*arcsinh(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 330

2.3.2190 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(5/2)*arcsinh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 334

2.3.2191 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 335

2.3.2192 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsinh(a*x)^3*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 336

2.3.2193 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsinh(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 339

2.3.2194 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{(c + a^2cx^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsinh(a*x)^3/(a^2*c*x^2+c)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 340

2.3.2195 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)^3}{\sqrt{1 + a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arcsinh(a*x)^3/(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 343

2.3.2196 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{x^2\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsinh(a*x)^3/x^2/(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 348

2.3.2197 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3\sqrt{1+c^2x^2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 356

2.3.2198 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+c^2x^2}}{x(a+\operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*x^2+1)^(1/2)/x/(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 360

2.3.2199 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+c^2x^2}}{x^3(a+\operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*x^2+1)^(1/2)/x^3/(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 362

2.3.2200 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(1+c^2x^2)^{3/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 364

2.3.2201 Giac [F(-2)]

Exception generated.

$$\int \frac{x(1+c^2x^2)^{3/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 366

2.3.2202 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{3/2}}{x(a + b \operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*x^2+1)^(3/2)/x/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 368

2.3.2203 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{3/2}}{x^3(a + b \operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*x^2+1)^(3/2)/x^3/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 370

2.3.2204 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(1+c^2x^2)^{5/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 372

2.3.2205 Giac [F(-2)]

Exception generated.

$$\int \frac{x(1+c^2x^2)^{5/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 374

2.3.2206 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{5/2}}{x(a + b \operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*x^2+1)^(5/2)/x/(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 376

2.3.2207 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{5/2}}{x^3(a + b \operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*x^2+1)^(5/2)/x^3/(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 378

2.3.2208 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1+a^2x^2}\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arcsinh(a*x)/(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 381

2.3.2209 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1+c^2x^2}(a+b\operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5/(a+b*arcsinh(c*x))/(c^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 388

2.3.2210 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1+c^2x^2}(a+\operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a+b*arcsinh(c*x))/(c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 390

2.3.2211 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1+c^2x^2}(a+\operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a+b*arcsinh(c*x))/(c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 394

2.3.2212 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + c^2x^2)^{3/2} (a + b\operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 397

2.3.2213 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 + c^2x^2)^{3/2} (a + b\operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 399

2.3.2214 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1+c^2x^2)^{5/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 401

2.3.2215 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1+c^2x^2)^{3/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 402

2.3.2216 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{1+c^2x^2}}{a + b \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 403

2.3.2217 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1+c^2x^2}}{(a + b \operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 411

2.3.2218 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+c^2x^2}}{x(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*x^2+1)^(1/2)/x/(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 415

2.3.2219 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+c^2x^2}}{x^3(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*x^2+1)^(1/2)/x^3/(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-p-a+b_arcsinh-c_x^-n.txt

Test file number 187

Integral number in file 417

2.3.2220 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(1+c^2x^2)^{3/2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 419

2.3.2221 Giac [F(-2)]

Exception generated.

$$\int \frac{x(1+c^2x^2)^{3/2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 421

2.3.2222 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{3/2}}{x(a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*x^2+1)^(3/2)/x/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 423

2.3.2223 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{3/2}}{x^3(a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*x^2+1)^(3/2)/x^3/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 425

2.3.2224 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(1+c^2x^2)^{5/2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 427

2.3.2225 Giac [F(-2)]

Exception generated.

$$\int \frac{x(1+c^2x^2)^{5/2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 429

2.3.2226 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{5/2}}{x(a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*x^2+1)^(5/2)/x/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 431

2.3.2227 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{5/2}}{x^3(a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*x^2+1)^(5/2)/x^3/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 433

2.3.2228 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1+c^2x^2}(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5/(a+b*arcsinh(c*x))^2/(c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 435

2.3.2229 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1+c^2x^2}(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(a+b*arcsinh(c*x))^2/(c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 437

2.3.2230 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1+c^2x^2}(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(a+b*arcsinh(c*x))^2/(c^2*x^2+1)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 441

2.3.2231 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1+c^2x^2)^{3/2}(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 443

2.3.2232 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + c^2 x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 445

2.3.2233 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 + c^2 x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 447

2.3.2234 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1+c^2x^2)^{5/2}(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 449

2.3.2235 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1+c^2x^2)^{5/2}(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 451

2.3.2236 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1+c^2x^2)^{5/2}(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 453

2.3.2237 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1+c^2x^2)^{5/2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 455

2.3.2238 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1+c^2x^2)^{3/2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 456

2.3.2239 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m\sqrt{1+c^2x^2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 457

2.3.2240 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 462

2.3.2241 Giac [F(-2)]

Exception generated.

$$\int \frac{x(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 464

2.3.2242 Giac [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{x(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 466

2.3.2243 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d + c^2 dx^2)^2}{(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 467

2.3.2244 Giac [F(-2)]

Exception generated.

$$\int \frac{x(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 469

2.3.2245 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{x(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^2/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 471

2.3.2246 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 472

2.3.2247 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(1/2)*arcsinh(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 473

2.3.2248 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 477

2.3.2249 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(arcsinh(a*x)^(3/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 478

2.3.2250 Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 481

2.3.2251 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arcsinh(a*x)^(5/2)*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 482

2.3.2252 Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d+c^2dx^2}(a+\operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arcsinh(c*x))^n*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 513

2.3.2253 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d+c^2dx^2}(a+\operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arcsinh(c*x))^n*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 514

2.3.2254 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^n*(c^2*d*x^2+d)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 515

2.3.2255 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^n*(c^2*d*x^2+d)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x-n.txt

Test file number 187

Integral number in file 516

2.3.2256 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 518

2.3.2257 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 519

2.3.2258 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^n/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 520

2.3.2259 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^n/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 521

2.3.2260 Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 523

2.3.2261 Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 524

2.3.2262 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^n/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 525

2.3.2263 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^n/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 526

2.3.2264 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)^n}{\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arcsinh(a*x)^n/(a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 528

2.3.2265 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} \sqrt{f - icfx} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))*(f-I*c*f*x)^(1/2),x, algorit
hm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 534

2.3.2266 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} \sqrt{f - icfx} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))*(f-I*c*f*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 535

2.3.2267 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} \sqrt{f - icfx} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))*(d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument TypeError: Bad Ar
gument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 536

2.3.2268 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2}(f - icfx)^{3/2}(a + b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 540

2.3.2269 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2}(f - icfx)^{3/2}(a + b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 541

2.3.2270 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx}(f-icfx)^{3/2}(a+b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))*(d+I*c*d*x)^(1/2),x, algorith
hm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 542

2.3.2271 Giac [F(-2)]

Exception generated.

$$\int (d+icdx)^{5/2}(f-icfx)^{5/2}(a+b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorith
hm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 546

2.3.2272 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2}(f - icfx)^{5/2}(a + b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorit
hm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 547

2.3.2273 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx}(f - icfx)^{5/2}(a + b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))*(d+I*c*d*x)^(1/2),x, algorit
hm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 548

2.3.2274 Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))}{\sqrt{d + icdx}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 549

2.3.2275 Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))}{(d + icdx)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 550

2.3.2276 Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))}{(d + icdx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 551

2.3.2277 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))}{\sqrt{f - icfx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 552

2.3.2278 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))}{(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 558

2.3.2279 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))}{(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to transpose Error: Bad Argume
nt Valuesym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) E
rror:
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 559

2.3.2280 Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{(d + icdx)^{5/2}(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
,0]ext_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0,0
,0]ext
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 563

2.3.2281 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))}{(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 564

2.3.2282 Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{(d + icdx)^{3/2}(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))/(d+I*c*d*x)^(3/2)/(f-I*c*f*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
,0]ext_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0,0
,0]ext
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 568

2.3.2283 Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{(d + icdx)^{5/2}(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:The choice was done assuming 0=[0,0,0
,0]ext_reduce Error: Bad Argument TypeThe choice was done assuming 0=[0,0,0
,0]ext
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 569

2.3.2284 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2*(f-I*c*f*x)^(1/2),x, algo
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 570

2.3.2285 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))^2*(f-I*c*f*x)^(1/2),x, algo
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 571

2.3.2286 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx} \sqrt{f-icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^2*(d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(1/2),x, algo-
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Ar-
gument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 572

2.3.2287 Giac [F(-2)]

Exception generated.

$$\int (d+icdx)^{5/2} (f-icfx)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algo-
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Ar-
gument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 576

2.3.2288 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} (f - icfx)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algo
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 577

2.3.2289 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} (f - icfx)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2*(d+I*c*d*x)^(1/2),x, algo
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 578

2.3.2290 Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2),x, algorith
m="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 581

2.3.2291 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorith
m="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 582

2.3.2292 Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algo
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Ar
gument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 583

2.3.2293 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2*(d+I*c*d*x)^(1/2),x, algo
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 584

2.3.2294 Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + icdx}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 585

2.3.2295 Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 586

2.3.2296 Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2),x, algo
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 587

2.3.2297 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{f - icfx}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(1/2),x, algo
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 588

2.3.2298 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 594

2.3.2299 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to transpose Error: Bad Argume
nt ValueUnable to transpose Error: Bad Argument Valuesym2poly/r2sym(const g
en & e
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 595

2.3.2300 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(3/2),x, algo
ithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 599

2.3.2301 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(5/2),x, algo
ithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 600

2.3.2302 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 601

2.3.2303 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{3/2}(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(3/2)/(f-I*c*f*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 604

2.3.2304 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 605

2.3.2305 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^4 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*x^2+d)^4*(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x^m-d+e_x^2-p-a+b_arcsinh-c_x^n.txt

Test file number 187

Integral number in file 606

2.3.2306 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 607

2.3.2307 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
f_x-^m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 608

2.3.2308 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 609

2.3.2309 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^3 (a + b \operatorname{arcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 613

2.3.2310 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 614

2.3.2311 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 615

2.3.2312 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-
 f_x-^m-d+e_x-²-^p-a+b_arcsinh-c_x-ⁿ.txt

Test file number 187

Integral number in file 634

2.3.2313 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
 verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 4

2.3.2314 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
 verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 5

2.3.2315 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
 verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 12

2.3.2316 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
 verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 13

2.3.2317 Giac [F(-2)]

Exception generated.

$$\int (d + ex)(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
 verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 14

2.3.2318 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 34

2.3.2319 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 35

2.3.2320 Giac [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{d + c^2 dx^2}(a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 36

2.3.2321 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}(a + b \operatorname{arcsinh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:
INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 37

2.3.2322 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}(a + \operatorname{barcsinh}(cx))}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(c*x))*(c^2*d*x^2+d)^(1/2)/(g*x+f)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 38

2.3.2323 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 39

2.3.2324 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^2*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 40

2.3.2325 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 41

2.3.2326 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 42

2.3.2327 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((g*x+f)^3*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 43

2.3.2328 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)^2*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 44

2.3.2329 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 45

2.3.2330 Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 46

2.3.2331 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^2 \log(h(f + gx)^m)}{\sqrt{1 + c^2 x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(c*x))^2*log(h*(g*x+f)^m)/(c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{720, [0,4,1,1,1,1,4,0]}%%}+%%{-1260, [0,4,1,1,1,1,3,1]}%%}+%%
{360, [
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 54

2.3.2332 Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^4 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(I+d*x^2))^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 314

2.3.2333 Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(I+d*x^2))^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 315

2.3.2334 Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(I+d*x^2))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 316

2.3.2335 Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2)) dx = \text{Exception raised: TypeError}$$

[In] integrate(a+b*arcsinh(I+d*x^2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 317

2.3.2336 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a + ib \arcsin(1 - idx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(I+d*x^2)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 318

2.3.2337 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(I+d*x^2))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 319

2.3.2338 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(I+d*x^2))^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 320

2.3.2339 Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^4 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(-I+d*x^2))^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 321

2.3.2340 Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(-I+d*x^2))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 322

2.3.2341 Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(-I+d*x^2))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 323

2.3.2342 Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(a+b*arcsinh(-I+d*x^2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 324

2.3.2343 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a - ib \arcsin(1 + idx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arcsinh(-I+d*x^2)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 325

2.3.2344 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsinh(-I+d*x^2))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt](#)

Test file number 188

Integral number in file 326

2.3.2345 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsinh(-I+d*x^2))^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt](#)

Test file number 188

Integral number in file 327

2.3.2346 Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(I+d*x^2))^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 328

2.3.2347 Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(I+d*x^2))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 329

2.3.2348 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + ib \arcsin(1 - idx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(I+d*x^2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 330

2.3.2349 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ib \arcsin(1 - idx^2)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*arcsinh(I+d*x^2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 331

2.3.2350 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(I+d*x^2))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 332

2.3.2351 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(I+d*x^2))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 333

2.3.2352 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(I+d*x^2))^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 334

2.3.2353 Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arcsinh(-I+d*x^2))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 335

2.3.2354 Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + id x^2))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(-I+d*x^2))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 336

2.3.2355 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a - ib \arcsin(1 + id x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arcsinh(-I+d*x^2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 337

2.3.2356 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - ib \arcsin(1 + id x^2)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(-I+d*x^2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
 verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 338

2.3.2357 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + id x^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(-I+d*x^2))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
 verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 339

2.3.2358 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(-I+d*x^2))^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 340

2.3.2359 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arcsinh(-I+d*x^2))^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 341

2.3.2360 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccosh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 1

2.3.2361 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 2

2.3.2362 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccosh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 3

2.3.2363 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccosh(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 12

2.3.2364 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 13

2.3.2365 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccosh(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 14

2.3.2366 Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arccosh(a*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 15

2.3.2367 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccosh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 22

2.3.2368 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 23

2.3.2369 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccosh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 24

2.3.2370 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^3/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 29

2.3.2371 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^3}{x^5} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^3/x^5,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 31

2.3.2372 Giac [F(-2)]

Exception generated.

$$\int x^5 \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5*arccosh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 32

2.3.2373 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*arccosh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 33

2.3.2374 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 34

2.3.2375 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2*arccosh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 35

2.3.2376 Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*arccosh(a*x)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 36

2.3.2377 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^4}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^4/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 40

2.3.2378 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5/arccosh(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 43

2.3.2379 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 45

2.3.2380 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 52

2.3.2381 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 59

2.3.2382 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 66

2.3.2383 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arccosh(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 73

2.3.2384 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 79

2.3.2385 Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*arccosh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 84

2.3.2386 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 85

2.3.2387 Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*arccosh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 86

2.3.2388 Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*arccosh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 87

2.3.2389 Giac [F(-2)]

Exception generated.

$$\int \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccosh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 88

2.3.2390 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 91

2.3.2391 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 98

2.3.2392 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 104

2.3.2393 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x^m-a+b_arccosh-c_x^n.txt

Test file number 189

Integral number in file 110

2.3.2394 Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^n dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 128

2.3.2395 Giac [F(-2)]

Exception generated.

$$\int x^3 (a + b \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 133

2.3.2396 Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 134

2.3.2397 Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 145

2.3.2398 Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(a+b*arccosh(c*x))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 148

2.3.2399 Giac [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(a+b*arccosh(c*x))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 149

2.3.2400 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccosh(c*x))^(5/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 150

2.3.2401 Giac [F(-2)]

Exception generated.

$$\int \sqrt{fx}(a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccosh(c*x))^2*(f*x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.2-
 d_x-^m-a+b_arccosh-c_x-^n.txt

Test file number 189

Integral number in file 163

2.3.2402 Giac [F(-2)]

Exception generated.

$$\int x^4(d - c^2 dx^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 1

2.3.2403 Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2 dx^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 2

2.3.2404 Giac [F(-2)]

Exception generated.

$$\int x^2(d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 3

2.3.2405 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 4

2.3.2406 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 5

2.3.2407 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2) (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 6

2.3.2408 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 7

2.3.2409 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 8

2.3.2410 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + \operatorname{arccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2^-p-a+b_arccosh-c_x^-n.txt

Test file number 190

Integral number in file 9

2.3.2411 Giac [F(-2)]

Exception generated.

$$\int x^4 (d - c^2 dx^2)^2 (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2^-p-a+b_arccosh-c_x^-n.txt

Test file number 190

Integral number in file 10

2.3.2412 Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2dx^2)^2(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 11

2.3.2413 Giac [F(-2)]

Exception generated.

$$\int x^2(d - c^2dx^2)^2(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 12

2.3.2414 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 13

2.3.2415 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 14

2.3.2416 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 15

2.3.2417 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 16

2.3.2418 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 17

2.3.2419 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 18

2.3.2420 Giac [F(-2)]

Exception generated.

$$\int x^4(d - c^2dx^2)^3(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 19

2.3.2421 Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2dx^2)^3(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 20

2.3.2422 Giac [F(-2)]

Exception generated.

$$\int x^2(d - c^2dx^2)^3(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 21

2.3.2423 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2dx^2)^3(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 22

2.3.2424 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 23

2.3.2425 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 24

2.3.2426 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 25

2.3.2427 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 26

2.3.2428 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + \operatorname{arccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 27

2.3.2429 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + \operatorname{arccosh}(cx))}{d - c^2 dx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arccosh(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 28

2.3.2430 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{d - c^2 dx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 29

2.3.2431 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barccosh}(cx))}{(d - c^2 dx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^4*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 37

2.3.2432 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d - c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 38

2.3.2433 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d - c^2dx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 47

2.3.2434 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 60

2.3.2435 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/x^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 61

2.3.2436 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x-²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 62

2.3.2437 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/x^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x-²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 63

2.3.2438 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/x^8,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 64

2.3.2439 Giac [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5*(a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 65

2.3.2440 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 x^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 66

2.3.2441 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d - c^2 x^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 67

2.3.2442 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 68

2.3.2443 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 69

2.3.2444 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/x^5,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 70

2.3.2445 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 73

2.3.2446 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 74

2.3.2447 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 75

2.3.2448 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 76

2.3.2449 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^8,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 77

2.3.2450 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^10,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 78

2.3.2451 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^12,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 79

2.3.2452 Giac [F(-2)]

Exception generated.

$$\int x^7 (d - c^2 dx^2)^{3/2} (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^7*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 80

2.3.2453 Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{3/2} (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^5*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 81

2.3.2454 Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 82

2.3.2455 Giac [F(-2)]

Exception generated.

$$\int x (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 83

2.3.2456 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 84

2.3.2457 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 85

2.3.2458 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 86

2.3.2459 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 89

2.3.2460 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 90

2.3.2461 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 91

2.3.2462 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 92

2.3.2463 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^8,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 93

2.3.2464 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^10,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 94

2.3.2465 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^12,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 95

2.3.2466 Giac [F(-2)]

Exception generated.

$$\int x^7 (d - c^2 dx^2)^{5/2} (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^7*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 96

2.3.2467 Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{5/2} (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 97

2.3.2468 Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 98

2.3.2469 Giac [F(-2)]

Exception generated.

$$\int x (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 99

2.3.2470 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 100

2.3.2471 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 101

2.3.2472 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^-m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 102

2.3.2473 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^-m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 104

2.3.2474 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 106

2.3.2475 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 114

2.3.2476 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{arccosh}(cx))}{(d - c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 115

2.3.2477 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{arccosh}(cx))}{(d - c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 116

2.3.2478 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{arccosh}(cx))}{(d - c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 124

2.3.2479 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{arccosh}(cx))}{(d - c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 126

2.3.2480 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arccosh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arccosh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 136

2.3.2481 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^3 (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate((f*x)^m*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 145

2.3.2482 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value


```

2.3.2483 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value


```

2.3.2484 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 151

2.3.2485 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 152

2.3.2486 Giac [F(-2)]

Exception generated.

$$\int (fx)^m \sqrt{d - cx^2} (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 153

2.3.2487 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^3 \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^3*arccosh(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 164

2.3.2488 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^2 \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^2*arccosh(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 165

2.3.2489 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2) \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)*arccosh(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 166

2.3.2490 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 x^2} (a + \operatorname{arccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccosh(c*x))^2*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 170

2.3.2491 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d - c^2 x^2} (a + \operatorname{arccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arccosh(c*x))^2*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 172

2.3.2492 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 x^2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^2*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 173

2.3.2493 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + \operatorname{barccosh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^2*(-c^2*d*x^2+d)^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 174

2.3.2494 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + \operatorname{arccosh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^2*(-c^2*d*x^2+d)^(1/2)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 175

2.3.2495 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + \operatorname{arccosh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^2*(-c^2*d*x^2+d)^(1/2)/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 176

2.3.2496 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^2*(-c^2*d*x^2+d)^(1/2)/x^4,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 177

2.3.2497 Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 178

2.3.2498 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 180

2.3.2499 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 181

2.3.2500 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 182

2.3.2501 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2/x^2,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 183

2.3.2502 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2/x^3,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 184

2.3.2503 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2/x^4,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 185

2.3.2504 Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 186

2.3.2505 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 188

2.3.2506 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \operatorname{arccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 189

2.3.2507 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \operatorname{arccosh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 190

2.3.2508 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2/x^2,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 191

2.3.2509 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2/x^3,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 192

2.3.2510 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2/x^4,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 193

2.3.2511 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + \operatorname{barccosh}(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 194

2.3.2512 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 196

2.3.2513 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 204

2.3.2514 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barccosh}(cx))^2}{(d - c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 205

2.3.2515 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))^2}{(d - c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 206

2.3.2516 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))^2}{(d - c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 214

2.3.2517 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))^2}{(d - c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 216

2.3.2518 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^2}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arccosh(a*x)^2/(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2-^p-a+b_arccosh-c_x^-n.txt

Test file number 190

Integral number in file 224

2.3.2519 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arccosh}(ax)^2}{\sqrt{1 - a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arccosh(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2-^p-a+b_arccosh-c_x^-n.txt

Test file number 190

Integral number in file 226

2.3.2520 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2,x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 233

2.3.2521 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 234

2.3.2522 Giac [F(-2)]

Exception generated.

$$\int (fx)^m \sqrt{d - c^2 dx^2} (a + b \operatorname{arccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 235

2.3.2523 Giac [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^3 \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^3*arccosh(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 240

2.3.2524 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^2 \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^2*arccosh(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 241

2.3.2525 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2) \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)*arccosh(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 242

2.3.2526 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{5/2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(5/2)*arccosh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 246

2.3.2527 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 247

2.3.2528 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 248

2.3.2529 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^3}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(a*x)^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 251

2.3.2530 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^3}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(arccosh(a*x)^3/(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 252

2.3.2531 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arccosh}(ax)^3}{\sqrt{1 - a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*arccosh(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 254

2.3.2532 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 - c^2 x^2}}{a + \operatorname{barccosh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^-m-d+e_x^2-p-a+b_arccosh-c_x^-n.txt

Test file number 190

Integral number in file 268

2.3.2533 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - c^2 x^2}}{x(a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arccosh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^-m-d+e_x^2-p-a+b_arccosh-c_x^-n.txt

Test file number 190

Integral number in file 272

2.3.2534 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x^3(a+\operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*x^2+1)^(1/2)/x^3/(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 274

2.3.2535 Giac [F(-2)]

Exception generated.

$$\int \frac{(1-c^2x^2)^{3/2}}{x(a+\operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 280

2.3.2536 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x^3 (a + b \operatorname{arccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*x^2+1)^(3/2)/x^3/(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 282

2.3.2537 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x (a + b \operatorname{arccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 288

2.3.2538 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x^3 (a + b \operatorname{arccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*x^2+1)^(5/2)/x^3/(a+b*arccosh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 290

2.3.2539 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1 - a^2 x^2} \operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/arccosh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 293

2.3.2540 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+\operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(a+b*arccosh(c*x))/(-c^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 299

2.3.2541 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+\operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a+b*arccosh(c*x))/(-c^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 303

2.3.2542 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2x^2)^{3/2} (a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 306

2.3.2543 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2x^2)^{3/2} (a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 308

2.3.2544 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1-c^2x^2)^{3/2}}{a+b\operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 310

2.3.2545 Giac [F(-2)]

Exception generated.

$$\int \frac{x^m\sqrt{1-c^2x^2}}{a+b\operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^m*(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 311

2.3.2546 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 - c^2 x^2}}{(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2-p-a+b_arccosh-c_x^-n.txt

Test file number 190

Integral number in file 320

2.3.2547 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - c^2 x^2}}{x(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arccosh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^-m-d+e_x^2-p-a+b_arccosh-c_x^-n.txt

Test file number 190

Integral number in file 324

2.3.2548 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x^3(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(1/2)/x^3/(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 326

2.3.2549 Giac [F(-2)]

Exception generated.

$$\int \frac{(1-c^2x^2)^{3/2}}{x(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 331

2.3.2550 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x^3 (a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(3/2)/x^3/(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 333

2.3.2551 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x (a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 338

2.3.2552 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x^3 (a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*x^2+1)^(5/2)/x^3/(a+b*arccosh(c*x))^2,x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt
Test file number 190
Integral number in file 340
```

2.3.2553 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1 - c^2 x^2} (a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5/(a+b*arccosh(c*x))^2/(-c^2*x^2+1)^(1/2),x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt
Test file number 190
Integral number in file 342
```

2.3.2554 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(a+b*arccosh(c*x))^2/(-c^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 344

2.3.2555 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(a+b*arccosh(c*x))^2/(-c^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 348

2.3.2556 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1 - c^2 x^2)^{3/2} (a + b \operatorname{arccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 350

2.3.2557 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{3/2} (a + b \operatorname{arccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 352

2.3.2558 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1-c^2x^2)^{3/2}(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 354

2.3.2559 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1-c^2x^2)^{5/2}(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(-c^2*x^2+1)^(5/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 357

2.3.2560 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{5/2} (a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(-c^2*x^2+1)^(5/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 359

2.3.2561 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{5/2} (a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(-c^2*x^2+1)^(5/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 361

2.3.2562 Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (1 - c^2 x^2)^{3/2}}{(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x)^m*(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 363

2.3.2563 Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m \sqrt{1 - c^2 x^2}}{(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x)^m*(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 364

2.3.2564 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^3*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 369

2.3.2565 Giac [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x-n.txt

Test file number 190

Integral number in file 371

2.3.2566 Giac [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((-c^2*d*x^2+d)/x/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 373

2.3.2567 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)^2}{(a + \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(x^3*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac"
)

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 374

2.3.2568 Giac [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 376

2.3.2569 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^2/x/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 378

2.3.2570 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 379

2.3.2571 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 380

2.3.2572 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 384

2.3.2573 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 385

2.3.2574 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 388

2.3.2575 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 389

2.3.2576 Giac [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d - c^2 x^2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(a+b*arccosh(c*x))^n*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 419

2.3.2577 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d - c^2 x^2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(a+b*arccosh(c*x))^n*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 420

2.3.2578 Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^n*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 421

2.3.2579 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(c*x))^n*(-c^2*d*x^2+d)^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 422

2.3.2580 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^n*(-c^2*d*x^2+d)^(1/2)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 423

2.3.2581 Giac [F(-2)]

Exception generated.

$$\int x^2 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 424

2.3.2582 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 425

2.3.2583 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 426

2.3.2584 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 427

2.3.2585 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n/x^2,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 428

2.3.2586 Giac [F(-2)]

Exception generated.

$$\int x^2(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 429

2.3.2587 Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 430

2.3.2588 Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 431

2.3.2589 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 432

2.3.2590 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{arccosh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 433

2.3.2591 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 (a + \operatorname{arccosh}(cx))^n}{\sqrt{1 - c^2 x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccosh(c*x))^n/(-c^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 434

2.3.2592 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))^n}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccosh(c*x))^n/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 440

2.3.2593 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))^n,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 452

2.3.2594 Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2) (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

```
[In] integrate((f*x)^m*(-c^2*d*x^2+d)*(a+b*arccosh(c*x))^n,x, algorithm="giac")
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt
Test file number 190
Integral number in file 453
```

2.3.2595 Giac [F(-2)]

Exception generated.

$$\int x^4 (d + ex^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(x^4*(e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt
Test file number 190
Integral number in file 461
```

2.3.2596 Giac [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 462

2.3.2597 Giac [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 463

2.3.2598 Giac [F(-2)]

Exception generated.

$$\int x(d + ex^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 464

2.3.2599 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 465

2.3.2600 Giac [F(-2)]

Exception generated.

$$\int x^4(d + ex^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 470

2.3.2601 Giac [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 471

2.3.2602 Giac [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 472

2.3.2603 Giac [F(-2)]

Exception generated.

$$\int x(d + ex^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 473

2.3.2604 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 474

2.3.2605 Giac [F(-2)]

Exception generated.

$$\int x^4 (d + ex^2)^3 (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^4*(e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 479

2.3.2606 Giac [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 480

2.3.2607 Giac [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x^2*(e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x^2-^p-a+b_arccosh-c_x-^n.txt

Test file number 190

Integral number in file 481

2.3.2608 Giac [F(-2)]

Exception generated.

$$\int x(d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(x*(e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 482

2.3.2609 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 483

2.3.2610 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^4 (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)^4*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 488

2.3.2611 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{arccosh}(cx))}{d + ex^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(a+b*arccosh(c*x))/(e*x^2+d),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 490

2.3.2612 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 498

2.3.2613 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 506

2.3.2614 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 507

2.3.2615 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^3 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((e*x^2+d)^3*(a+b*arccosh(c*x))^2,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x^m-d+e_x^2-p-a+b_arccosh-c_x^n.txt

Test file number 190

Integral number in file 525

2.3.2616 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)^2*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 526

2.3.2617 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
 f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 527

2.3.2618 Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{arccosh}(cx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x^2+d)*(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.4-
f_x-^m-d+e_x²-^p-a+b_arccosh-c_x-ⁿ.txt

Test file number 190

Integral number in file 557

2.3.2619 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d + ex)^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(c*x)/(e*x+d)^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 6

2.3.2620 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d+ex)^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arccosh(c*x)/(e*x+d)^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 7

2.3.2621 Giac [F(-2)]

Exception generated.

$$\int (d+ex)^3 \operatorname{arccosh}(cx)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x+d)^3*arccosh(c*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 8

2.3.2622 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 \operatorname{arccosh}(cx)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x+d)^2*arccosh(c*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 9

2.3.2623 Giac [F(-2)]

Exception generated.

$$\int (d + ex) \operatorname{arccosh}(cx)^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((e*x+d)*arccosh(c*x)^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 10

2.3.2624 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)^2}{(d+ex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(arccosh(c*x)^2/(e*x+d)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 12

2.3.2625 Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)^2}{(d+ex)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(arccosh(c*x)^2/(e*x+d)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 13

2.3.2626 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
 verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 14

2.3.2627 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
 verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 15

2.3.2628 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^3*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
 verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 21

2.3.2629 Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)^2*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
 eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
 verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 22

2.3.2630 Giac [F(-2)]

Exception generated.

$$\int (d + ex)(a + \operatorname{arccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((e*x+d)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 23

2.3.2631 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d - c^2 dx^2} (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)^3*(a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="g
iac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 53

2.3.2632 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)^2*(a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 54

2.3.2633 Giac [F(-2)]

Exception generated.

$$\int (f + gx) \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)*(a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt`

Test file number 191

Integral number in file 55

2.3.2634 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 56

2.3.2635 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(c*x))*(-c^2*d*x^2+d)^(1/2)/(g*x+f)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 57

2.3.2636 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 58

2.3.2637 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 59

2.3.2638 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 60

2.3.2639 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 61

2.3.2640 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 62

2.3.2641 Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] integrate((g*x+f)^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 63

2.3.2642 Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((g*x+f)*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 64

2.3.2643 Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

[In] `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 65

2.3.2644 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^n \log(h(f + gx)^m)}{\sqrt{1 - c^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(c*x))^n*log(h*(g*x+f)^m)/(-c^2*x^2+1)^(1/2),x, algo-
ithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Sign error (%%{sageVARf^2-2*sageVARf
*t_nostep+t_nostep^2,-2%%}+%%{-sageVARg^2,0%%})Sign error (%%{sageVARf^
2-2*sa
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 78

2.3.2645 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^2 \log(h(f + gx)^m)}{\sqrt{1 - c^2x^2}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((a+b*arccosh(c*x))^2*log(h*(g*x+f)^m)/(-c^2*x^2+1)^(1/2),x, algo-
ithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 79

2.3.2646 Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{(ce + dex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 99

2.3.2647 Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{(ce + dex)^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 102

2.3.2648 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arccosh}(c + dx))^2}{(ce + dex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 110

2.3.2649 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arccosh}(c + dx))^3}{(ce + dex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 119

2.3.2650 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^4}{(ce + dex)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 127

2.3.2651 Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{(ce + dex)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 204

2.3.2652 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{(ce + dex)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 212

2.3.2653 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^3}{(ce + dex)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 218

2.3.2654 Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^4}{(ce + dex)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 224

2.3.2655 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^4 dx = \text{Exception raised: RuntimeError}$$

[In] integrate((a+b*arccosh(d*x^2+1))^4,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 240

2.3.2656 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccosh(d*x^2+1))^3,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 241

2.3.2657 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccosh(d*x^2+1))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 242

2.3.2658 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(-1 + dx^2))^4 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccosh(d*x^2-1))^4,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 247

2.3.2659 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(-1 + dx^2))^3 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccosh(d*x^2-1))^3,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 248

2.3.2660 Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arccosh}(-1 + dx^2))^2 dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((a+b*arccosh(d*x^2-1))^2,x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 249

2.3.2661 Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arccosh}(1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2+1))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 254

2.3.2662 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(d*x^2+1))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 255

2.3.2663 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barccosh}(1 + dx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*arccosh(d*x^2+1))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 256

2.3.2664 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \operatorname{arccosh}(1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a+b*arccosh(d*x^2+1))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 257

2.3.2665 Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{arccosh}(-1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2-1))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 261

2.3.2666 Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arccosh}(-1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2-1))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 262

2.3.2667 Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arccosh}(-1 + dx^2)} dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*arccosh(d*x^2-1))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 263

2.3.2668 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(-1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*arccosh(d*x^2-1))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 264

2.3.2669 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + b \operatorname{arccosh}\left(\frac{\sqrt{1-cx}}{\sqrt{1+cx}}\right)\right)^n}{1 - c^2x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh((-c*x+1)^(1/2)/(c*x+1)^(1/2)))^n/(-c^2*x^2+1),x, alg
orithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 268

2.3.2670 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \operatorname{barccosh}\left(\frac{\sqrt{1-cx}}{\sqrt{1+cx}}\right)\right)^3}{1 - c^2x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh((-c*x+1)^(1/2)/(c*x+1)^(1/2)))^3/(-c^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 269

2.3.2671 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \operatorname{barccosh}\left(\frac{\sqrt{1-cx}}{\sqrt{1+cx}}\right)\right)^2}{1 - c^2x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh((-c*x+1)^(1/2)/(c*x+1)^(1/2)))^2/(-c^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_In-
verse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 270

2.3.2672 Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}\left(\frac{\sqrt{1-cx}}{\sqrt{1+cx}}\right)}{1 - c^2x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*arccosh((-c*x+1)^(1/2)/(c*x+1)^(1/2)))/(-c^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 271

2.3.2673 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 - c^2x^2) \left(a + \operatorname{barccosh}\left(\frac{\sqrt{1-cx}}{\sqrt{1+cx}}\right) \right)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(-c^2*x^2+1)/(a+b*arccosh((-c*x+1)^(1/2)/(c*x+1)^(1/2))),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 272

2.3.2674 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 - c^2 x^2) \left(a + \operatorname{barccosh} \left(\frac{\sqrt{1 - cx}}{\sqrt{1 + cx}} \right) \right)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(-c^2*x^2+1)/(a+b*arccosh((-c*x+1)^(1/2)/(c*x+1)^(1/2)))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/7.2.5_Inverse_hyperbolic_cosine_functions.txt

Test file number 191

Integral number in file 273

2.3.2675 Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \operatorname{arctanh}(ax)}{\sqrt{1 - a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^5*arctanh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 364

2.3.2676 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arctanh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 366

2.3.2677 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*arctanh(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 373

2.3.2678 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctanh(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 380

2.3.2679 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)}{(1-a^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctanh(a*x)/(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 388

2.3.2680 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)^2}{(1 - a^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctanh(a*x)^2/(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 396

2.3.2681 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)^3}{(1 - a^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctanh(a*x)^3/(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 404

2.3.2682 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(x/(-a^2*x^2+1)^(3/2)/arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
 a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 413

2.3.2683 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/x/(-a^2*x^2+1)^(3/2)/arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
 a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 415

2.3.2684 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x/(-a^2*x^2+1)^(3/2)/arctanh(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 418

2.3.2685 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x/(-a^2*x^2+1)^(3/2)/arctanh(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 420

2.3.2686 Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x/(-a^2*x^2+1)^(3/2)/arctanh(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 423

2.3.2687 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(-a^2*x^2+1)^(3/2)/arctanh(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 425

2.3.2688 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctanh(a*x)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 427

2.3.2689 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctanh(a*x)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 429

2.3.2690 Giac [F(-2)]

Exception generated.

$$\int \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 430

2.3.2691 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax)}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)*(-a^2*x^2+1)^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 431

2.3.2692 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 432

2.3.2693 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)*(-a^2*x^2+1)^(1/2)/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 433

2.3.2694 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)*(-a^2*x^2+1)^(1/2)/x^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 434

2.3.2695 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^5} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)*(-a^2*x^2+1)^(1/2)/x^5,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 435

2.3.2696 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^6} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)*(-a^2*x^2+1)^(1/2)/x^6,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 436

2.3.2697 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^7} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)*(-a^2*x^2+1)^(1/2)/x^7,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 437

2.3.2698 Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*arctanh(a*x)^2*(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 439

2.3.2699 Giac [F(-2)]

Exception generated.

$$\int x \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*arctanh(a*x)^2*(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 441

2.3.2700 Giac [F(-2)]

Exception generated.

$$\int \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax)^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 442

2.3.2701 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax)^2}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(arctanh(a*x)^2*(-a^2*x^2+1)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 443

2.3.2702 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)^2*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 444

2.3.2703 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2}{x^3} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)^2*(-a^2*x^2+1)^(1/2)/x^3,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 445

2.3.2704 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2}{x^4} dx = \text{Exception raised: TypeError}$$

[In] `integrate(arctanh(a*x)^2*(-a^2*x^2+1)^(1/2)/x^4,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 446

2.3.2705 Giac [F(-2)]

Exception generated.

$$\int x^3(1-a^2x^2)^{3/2}\operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3*(-a^2*x^2+1)^(3/2)*arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 448

2.3.2706 Giac [F(-2)]

Exception generated.

$$\int x(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x*(-a^2*x^2+1)^(3/2)*arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 450

2.3.2707 Giac [F(-2)]

Exception generated.

$$\int (1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 451

2.3.2708 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 452

2.3.2709 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 453

2.3.2710 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 454

2.3.2711 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 455

2.3.2712 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 456

2.3.2713 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2 x^2)^{3/2} \operatorname{arctanh}(ax)}{x^6} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^6,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 457

2.3.2714 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^7} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^7,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 458

2.3.2715 Giac [F(-2)]

Exception generated.

$$\int (1 - a^2x^2)^{5/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*x^2+1)^(5/2)*arctanh(a*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 459

2.3.2716 Giac [F(-2)]

Exception generated.

$$\int (1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 460

2.3.2717 Giac [F(-2)]

Exception generated.

$$\int \sqrt{1 - a^2x^2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 461

2.3.2718 Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(3/2)*arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 465

2.3.2719 Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a^2*c*x^2+c)^(1/2)*arctanh(a*x),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-
a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 466

2.3.2720 Giac [F(-2)]

Exception generated.

$$\int \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 471

2.3.2721 Giac [F(-2)]

Exception generated.

$$\int \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax)^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 475

2.3.2722 Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \operatorname{arctanh}(cx)) (d + e \log(1 - c^2 x^2)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arctanh(c*x))*(d+e*log(-c^2*x^2+1)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.4_u-a+b_arctanh-c_x-^p.txt

Test file number 194

Integral number in file 523

2.3.2723 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^4 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1

2.3.2724 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 3

2.3.2725 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 34

2.3.2726 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^2/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 35

2.3.2727 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 39

2.3.2728 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 41

2.3.2729 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 51

2.3.2730 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)*x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 72

2.3.2731 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}\operatorname{arctanh}(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 76

2.3.2732 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}\operatorname{arctanh}(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 78

2.3.2733 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2)*x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 81

2.3.2734 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2)*x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 82

2.3.2735 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2/((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 92

2.3.2736 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}\operatorname{arctanh}(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 100

2.3.2737 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 101

2.3.2738 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}\operatorname{arctanh}(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m/((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 110

2.3.2739 Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^3/((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 111

2.3.2740 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^m,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 142

2.3.2741 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 147

2.3.2742 Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)}(c - acx)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^p,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 177

2.3.2743 Giac [F(-2)]

Exception generated.

$$\int e^{-3\arctanh(ax)}(c - acx)^p dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^p/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 216

2.3.2744 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 227

2.3.2745 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 229

2.3.2746 Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(7/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 244

2.3.2747 Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 246

2.3.2748 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt](#)

Test file number 196

Integral number in file 247

2.3.2749 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c-ax)^{9/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^(9/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt](#)

Test file number 196

Integral number in file 252

2.3.2750 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(7/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 253

2.3.2751 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(5/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 254

2.3.2752 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(3/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 255

2.3.2753 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\sqrt{c - acx}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(-a*c*x+c)^(1/2),x, algorithm="giac"
)

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 257

2.3.2754 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{(c - acx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 259

2.3.2755 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(5/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 270

2.3.2756 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^(3/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 271

2.3.2757 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}\sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 272

2.3.2758 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{(c-ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 275

2.3.2759 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{(c-ax)^{9/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(-a*c*x+c)^(9/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 277

2.3.2760 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} (c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctanh(a*x))*(-a*c*x+c)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0,8,1,0,0]%%}+%%{-4, [0,6,1,1,0]%%}+%%{6, [0,4,1,2,0]%%
}+%%{
```

input file name [7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt](#)

Test file number 196

Integral number in file 278

2.3.2761 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} (c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctanh(a*x))*(-a*c*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [0,6,1,0,0]%%}+%%{3, [0,4,1,1,0]%%}+%%{-3, [0,2,1,2,0]%%
}+%%{
```

input file name [7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt](#)

Test file number 196

Integral number in file 279

2.3.2762 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} (c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctanh(a*x))*(-a*c*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [0,4,1,0,0]%%}+%%{-2, [0,2,1,1,0]%%}+%%{1, [0,0,1,2,0]%%
} / %%
```

input file name [7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-](#)
[ponentials_of_inverse_hyperbolic_tangent_functions.txt](#)

Test file number 196

Integral number in file 280

2.3.2763 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{c - acx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-](#)
[ponentials_of_inverse_hyperbolic_tangent_functions.txt](#)

Test file number 196

Integral number in file 327

2.3.2764 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 329

2.3.2765 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 336

2.3.2766 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 338

2.3.2767 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x}{(c - acx)^2} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x/(-a*c*x+c)^2,x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 1/abs
(sageVARa)/sageVARc^2/sageVARa/sageVARc*(-(-6*sageVARc*atan(i)-(-7*i)*sageV
ARc)/3*sign((sageVARa*sageVARc*sageVARx-sageVARc)^-1)*sign(sageVARa)*sign(s
ageVARc)-2*sageV

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 339

2.3.2768 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 345

2.3.2769 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 347

2.3.2770 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 355

2.3.2771 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 357

2.3.2772 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(x)} x(1+x)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(5/2)/(-x^2+1)^(1/2)*x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 371

2.3.2773 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(x)} (1+x)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(5/2)/(-x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 372

2.3.2774 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(x)} x \sqrt{1+x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((1+x)^(3/2)/(-x^2+1)^(1/2)*x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 375

2.3.2775 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(x)} \sqrt{1+x} dx = \text{Exception raised: TypeError}$$

[In] `integrate((1+x)^(3/2)/(-x^2+1)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 376

2.3.2776 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(x)} x}{\sqrt{1+x}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(1/2)/(-x^2+1)^(1/2)*x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 379

2.3.2777 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 \sqrt{c-ax} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2*(-a*c*x+c)^(1/2),x, algorithm="gia
c")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 388

2.3.2778 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^3*(-a*c*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 402

2.3.2779 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x*(-a*c*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 404

2.3.2780 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}\sqrt{c-acx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 405

2.3.2781 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-acx}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x,x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 406

2.3.2782 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 407

2.3.2783 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 408

2.3.2784 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 409

2.3.2785 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 410

2.3.2786 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(-a*c*x+c)^(1/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 412

2.3.2787 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 428

2.3.2788 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 429

2.3.2789 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 430

2.3.2790 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}\sqrt{c-acx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 431

2.3.2791 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c-acx}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x,x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 432

2.3.2792 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 433

2.3.2793 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 434

2.3.2794 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 435

2.3.2795 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 436

2.3.2796 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a/x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 453

2.3.2797 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a/x)^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 455

2.3.2798 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a/x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 472

2.3.2799 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a/x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 491

2.3.2800 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a/x)^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 509

2.3.2801 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(c-c/a/x)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 511

2.3.2802 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(c-c/a/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 513

2.3.2803 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(9/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 518

2.3.2804 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 519

2.3.2805 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 520

2.3.2806 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 521

2.3.2807 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 528

2.3.2808 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 530

2.3.2809 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 531

2.3.2810 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(9/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 535

2.3.2811 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(7/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 536

2.3.2812 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(5/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 537

2.3.2813 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(3/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 538

2.3.2814 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a/x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 542

2.3.2815 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(9/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 544

2.3.2816 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(7/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 545

2.3.2817 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(5/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 546

2.3.2818 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(3/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 547

2.3.2819 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 548

2.3.2820 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{ax}}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 549

2.3.2821 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 550

2.3.2822 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 551

2.3.2823 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 552

2.3.2824 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{9/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(9/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 553

2.3.2825 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(9/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 554

2.3.2826 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(7/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 555

2.3.2827 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(5/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 556

2.3.2828 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c/a/x)^(3/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 557

2.3.2829 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 558

2.3.2830 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a/x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 561

2.3.2831 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 577

2.3.2832 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{6, [2,1,5]%%}+%%{-6, [1,1,4]%%}+%%{-6, [0,1,3]%%}, [4]%%
 %}+%%%

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 578

2.3.2833 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{[-5,0]: [1,0,%%{-1, [1]%%}]%%}, [0,5]%%}, [6]%%}+%%{%%
 %}{%%%

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 579

2.3.2834 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(1/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{210, [2,1,9]%%}+%%{-210, [1,1,8]%%}+%%{-210, [0,1,7]%%}
, [8]%%
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 580

2.3.2835 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(1/2)/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[-315,0]: [1,0,%%{-1, [1]%%}]%%}, [0,9]%%}, [10]%%}+%%
%{%%{[
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 581

2.3.2836 Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - \frac{c}{ax} x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^2*(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 583

2.3.2837 Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - \frac{c}{ax} x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x*(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 584

2.3.2838 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 585

2.3.2839 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x,x, algorithm="giac
")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 586

2.3.2840 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 587

2.3.2841 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 588

2.3.2842 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 589

2.3.2843 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 590

2.3.2844 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c-c/a/x)^(1/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 592

2.3.2845 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 599

2.3.2846 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 600

2.3.2847 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 601

2.3.2848 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 602

2.3.2849 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 603

2.3.2850 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1)/x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 604

2.3.2851 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="gi
ac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 608

2.3.2852 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax} x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 609

2.3.2853 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax} x} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 610

2.3.2854 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 611

2.3.2855 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x,x, algorithm="giac
")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 612

2.3.2856 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 613

2.3.2857 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 614

2.3.2858 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 615

2.3.2859 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 616

2.3.2860 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{c - \frac{c}{a^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 649

2.3.2861 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{c - \frac{c}{a^2x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 682

2.3.2862 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 692

2.3.2863 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 693

2.3.2864 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 694

2.3.2865 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 699

2.3.2866 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 700

2.3.2867 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 701

2.3.2868 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 702

2.3.2869 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 703

2.3.2870 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{9/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(9/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 704

2.3.2871 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="gi
ac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 712

2.3.2872 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 713

2.3.2873 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 720

2.3.2874 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 721

2.3.2875 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 722

2.3.2876 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a^2/x^2)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 727

2.3.2877 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 728

2.3.2878 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 729

2.3.2879 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
 ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 730

2.3.2880 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-](#)
[ponentials_of_inverse_hyperbolic_tangent_functions.txt](#)

Test file number 196

Integral number in file 731

2.3.2881 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-](#)
[ponentials_of_inverse_hyperbolic_tangent_functions.txt](#)

Test file number 196

Integral number in file 738

2.3.2882 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 739

2.3.2883 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 740

2.3.2884 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 750

2.3.2885 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((c-c/a^2/x^2)^(1/2)/(a*x+1)*(-a^2*x^2+1)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 769

2.3.2886 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a^2/x^2)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 774

2.3.2887 Giac [F(-2)]

Exception generated.

$$\int e^{n\operatorname{arctanh}(ax)} \left(c - \frac{c}{a^2 x^2}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(n*arctanh(a*x))*(c-c/a^2/x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 795

2.3.2888 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(exp(n*arctanh(a*x))*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 796

2.3.2889 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 798

2.3.2890 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 799

2.3.2891 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c),x, algorithm="giac"
)

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 888

2.3.2892 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 897

2.3.2893 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 899

2.3.2894 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^7}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^7/(-a^2*c*x^2+c)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 907

2.3.2895 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 909

2.3.2896 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 911

2.3.2897 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 949

2.3.2898 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 957

2.3.2899 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 959

2.3.2900 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 966

2.3.2901 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 968

2.3.2902 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 977

2.3.2903 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 979

2.3.2904 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1077

2.3.2905 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} x^3}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x^3/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1108

2.3.2906 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} x^2}{\sqrt{c - a^2 c x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x^2/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1109

2.3.2907 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} x}{\sqrt{c - a^2 c x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1110

2.3.2908 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^2/(-a^2*x^2+1)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1111

2.3.2909 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{x\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^2/(-a^2*x^2+1)/x/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1112

2.3.2910 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^3}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1116

2.3.2911 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^2}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x^2/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1117

2.3.2912 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{x(c-a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^2/(-a^2*x^2+1)/x/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1120

2.3.2913 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m (c - a^2 cx^2)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(5/2),x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1131

2.3.2914 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1132

2.3.2915 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1133

2.3.2916 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} x^2}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^2/(-a^2*c*x^2+c),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1150

2.3.2917 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^2 \sqrt{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1157

2.3.2918 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1173

2.3.2919 Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^m (c - a^2 cx^2)^p dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^m*(-a^2*c*x^2+c)^p,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1174

2.3.2920 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1206

2.3.2921 Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^3 (c - a^2 cx^2)^p dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-a^2*c*x^2+c)^p/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1222

2.3.2922 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}(c - a^2cx^2)^p}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^p/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1227

2.3.2923 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)}x^3\sqrt{c - a^2cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1236

2.3.2924 Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1252

2.3.2925 Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1279

2.3.2926 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}x^3}{(c-a^2cx^2)^{5/4}}dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)*x^3/(-a^2*c*x^2+c)^(5/4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1297

2.3.2927 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}x^3}{(c-a^2cx^2)^{9/8}}dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)*x^3/(-a^2*c*x^2+c)^(9/8),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1303

2.3.2928 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(exp(n*arctanh(a*x))*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1327

2.3.2929 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} x \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(exp(n*arctanh(a*x))*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1329

2.3.2930 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1330

2.3.2931 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2)/x,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1331

2.3.2932 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1332

2.3.2933 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1333

2.3.2934 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1334

2.3.2935 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1341

2.3.2936 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{(c - a^2 c x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Ex-
ponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 1348

2.3.2937 Giac [F(-2)]

Exception generated.

$$\int \operatorname{arctanh}(a + b f^{c+dx}) dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate(arctanh(a+b*f^(d*x+c)),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1
,2,0,0,0]}+%%{2,[0,1,1,1,1,0]}+%%{-2,[0,1,1,0,0,0]}+%%{1,[0,1,0
,2,0,1]}%
```

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.7_In-
verse_hyperbolic_tangent_functions.txt

Test file number 197

Integral number in file 352

2.3.2938 Giac [F(-2)]

Exception generated.

$$\int x^5(a + b \coth^{-1}(cx)) (d + e \log(1 - c^2x^2)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^5*(a+b*arccoth(c*x))*(d+e*log(-c^2*x^2+1)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.1_Inverse_hyperbolic_cotangent_functions.txt

Test file number 198

Integral number in file 266

2.3.2939 Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \coth^{-1}(cx)) (d + e \log(1 - c^2x^2)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(a+b*arccoth(c*x))*(d+e*log(-c^2*x^2+1)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.1_Inverse_hyperbolic_cotangent_functions.txt

Test file number 198

Integral number in file 267

2.3.2940 Giac [F(-2)]

Exception generated.

$$\int \coth^{-1}(a + bf^{c+dx}) dx = \text{Exception raised: RuntimeError}$$

[In] `integrate(arccoth(a+b*f^(d*x+c)),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1
 ,2,0,0,0]%%}+%%{2,[0,1,1,1,1,0]%%}+%%{-2,[0,1,1,0,0,0]%%}+%%{1,[0,1,0
 ,2,0,1]%%

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.1_Inverse_hyperbolic_cotangent_functions.txt

Test file number 198

Integral number in file 289

2.3.2941 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^2,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 2

2.3.2942 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 33

2.3.2943 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 38

2.3.2944 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(1/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 40

2.3.2945 Giac [F(-2)]

Exception generated.

$$\int e^{3\coth^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*x^m,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 133

2.3.2946 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] `integrate(x^m*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 138

2.3.2947 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} (c - acx)^p dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^p,x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 177

2.3.2948 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (c - acx)^p dx = \text{Exception raised: TypeError}$$

[In] `integrate((-a*c*x+c)^p*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 216

2.3.2949 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} (c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 227

2.3.2950 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 229

2.3.2951 Giac [F(-2)]

Exception generated.

$$\int e^{3\coth^{-1}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 244

2.3.2952 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} (c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 246

2.3.2953 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 247

2.3.2954 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)}(c - acx)^{9/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(9/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 252

2.3.2955 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(7/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 253

2.3.2956 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)}(c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(5/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 254

2.3.2957 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(3/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 255

2.3.2958 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\sqrt{c-ax}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((a*x-1)/(a*x+1))^(1/2)/(-a*c*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 257

2.3.2959 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{(c-ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((a*x-1)/(a*x+1))^(1/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 259

2.3.2960 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (c - acx)^{9/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(9/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 270

2.3.2961 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(7/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 271

2.3.2962 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(5/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 272

2.3.2963 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(3/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 273

2.3.2964 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 274

2.3.2965 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{(c - acx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(3/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 277

2.3.2966 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^2*(-a*c*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 296

2.3.2967 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*x^3*(-a*c*x+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 310

2.3.2968 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*x*(-a*c*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 312

2.3.2969 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 313

2.3.2970 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 314

2.3.2971 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x^2,x, algorithm="giac
")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 315

2.3.2972 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 316

2.3.2973 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 317

2.3.2974 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 318

2.3.2975 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(x)} x(1+x)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((-1+x)/(1+x))^(1/2)*x*(1+x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 319

2.3.2976 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(x)}(1+x)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((-1+x)/(1+x))^(1/2)*(1+x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 320

2.3.2977 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(x)}x\sqrt{1+x} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((-1+x)/(1+x))^(1/2)*x*(1+x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 323

2.3.2978 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(x)} \sqrt{1+x} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((-1+x)/(1+x))^(1/2)*(1+x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 324

2.3.2979 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(x)} x}{\sqrt{1+x}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((-1+x)/(1+x))^(1/2)*x/(1+x)^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 327

2.3.2980 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(x)} x}{\sqrt{1-x}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(1/((-1+x)/(1+x))^(1/2)*x/(1-x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: (-12*
atan(i)+20*i)*1/3/sqrt(2)*sign(sageVARx+1)-(-2/3*sqrt(-sageVARx-1)*(-sageVA
Rx-1)+2*sqrt(-sageVARx-1)+1/3*(12*atan(i)-20*i)/sqrt(2)-4*atan(sqrt(-sageVA
Rx-1)/sqrt(2)))/s
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 329

2.3.2981 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(x)}}{\sqrt{1-x}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(1/((-1+x)/(1+x))^(1/2)/(1-x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: (-4*a
tan(i)+4*i)/sqrt(2)*sign(sageVARx+1)-(2*sqrt(-sageVARx-1)+(4*atan(i)-4*i)/s
qrt(2)-4*atan(sqrt(-sageVARx-1)/sqrt(2))/sqrt(2))*sign(sageVARx)/sign(sageV
ARx+1)
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 330

2.3.2982 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(x)}x}{(1+x)^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(1/((-1+x)/(1+x))^(1/2)*x/(1+x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 2*(sqrt(sageVARx-1)+(atan(i)-2*i)/sqrt(2)-atan(sqrt(sageVARx-1)/sqrt(2))/sqrt(2))*sign(sageVARx)/sign(sageVARx+1)
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 331

2.3.2983 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(x)}}{(1+x)^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(1/((-1+x)/(1+x))^(1/2)/(1+x)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 2*(-1/2*sqrt(2)*atan(i)+1/2*sqrt(2)*atan(sqrt(sageVARx-1)/sqrt(2)))*sign(sageVARx)/sign(sageVARx+1)
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 332

2.3.2984 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 336

2.3.2985 Giac [F(-2)]

Exception generated.

$$\int e^{-3\coth^{-1}(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 350

2.3.2986 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 351

2.3.2987 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 352

2.3.2988 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 353

2.3.2989 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 354

2.3.2990 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 355

2.3.2991 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 356

2.3.2992 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 357

2.3.2993 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 358

2.3.2994 Giac [F(-2)]

Exception generated.

$$\int e^{n \coth^{-1}(ax)} (c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arccoth(a*x))*(-a*c*x+c)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1,[0,6,1,0,0]%%}+%%{3,[0,4,1,1,0]%%}+%%{-3,[0,2,1,2,0]%%
%}+%%
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 372

2.3.2995 Giac [F(-2)]

Exception generated.

$$\int e^{n \coth^{-1}(ax)} (c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arccoth(a*x))*(-a*c*x+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,4,1,0,0]%%}+%%{-2,[0,2,1,1,0]%%}+%%{1,[0,0,1,2,0]%%
} / %%
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 373

2.3.2996 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a/x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 384

2.3.2997 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a/x)^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 386

2.3.2998 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 402

2.3.2999 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a/x)^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 419

2.3.3000 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^5} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 437

2.3.3001 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)*(c-c/a/x)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 439

2.3.3002 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(c-c/a/x)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 441

2.3.3003 Giac [F(-2)]

Exception generated.

$$\int e^{2\coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(9/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 446

2.3.3004 Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(7/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
 ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 447

2.3.3005 Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(5/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
 ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 448

2.3.3006 Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(3/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
 make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
 ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 449

2.3.3007 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(7/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
 ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 456

2.3.3008 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 458

2.3.3009 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 459

2.3.3010 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{ax}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 460

2.3.3011 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 461

2.3.3012 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c/a/x)^(7/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 463

2.3.3013 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((c-c/a/x)^(5/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 464

2.3.3014 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c/a/x)^(3/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 465

2.3.3015 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a/x)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 469

2.3.3016 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(7/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 471

2.3.3017 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(5/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 472

2.3.3018 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(3/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 473

2.3.3019 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 474

2.3.3020 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{ax}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 475

2.3.3021 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 476

2.3.3022 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 477

2.3.3023 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 478

2.3.3024 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{9/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(9/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 479

2.3.3025 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(9/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 480

2.3.3026 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(7/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 481

2.3.3027 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(5/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 482

2.3.3028 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(3/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 483

2.3.3029 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 484

2.3.3030 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 487

2.3.3031 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 502

2.3.3032 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{6, [2,1,5]%%}+%%{-6, [1,1,4]%%}+%%{-6, [0,1,3]%%}, [4]%%
 %}+%%%

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
 ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 503

2.3.3033 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{%%}{[-5,0]: [1,0,%%{-1, [1]%%}]%%}, [0,5]%%}, [6]%%}+%%{%%
 %}{[%%%

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
 ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 504

2.3.3034 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(1/2)/x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{210, [2,1,9]%%}+%%{-210, [1,1,8]%%}+%%{-210, [0,1,7]%%}
, [8]%%
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 505

2.3.3035 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(1/2)/x^5,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{%%{[-315,0]: [1,0,%%{-1, [1]%%}]%%}, [0,9]%%}, [10]%%}+%%
%{%%{[
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 506

2.3.3036 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*x^2*(c-c/a/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 508

2.3.3037 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*x*(c-c/a/x)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 509

2.3.3038 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 510

2.3.3039 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 511

2.3.3040 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x^2,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 512

2.3.3041 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x^3,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 513

2.3.3042 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x^4,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 514

2.3.3043 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x^5,x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 515

2.3.3044 Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 517

2.3.3045 Giac [F(-2)]

Exception generated.

$$\int e^{-2\coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(c-c/a/x)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 524

2.3.3046 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(c-c/a/x)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 525

2.3.3047 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(c-c/a/x)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 526

2.3.3048 Giac [F(-2)]

Exception generated.

$$\int e^{-2\coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 527

2.3.3049 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*(a*x-1)/(a*x+1)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 528

2.3.3050 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*(a*x-1)/(a*x+1)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m operator + Error: Ba
d Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 529

2.3.3051 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 533

2.3.3052 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^2*(c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 534

2.3.3053 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*(c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 535

2.3.3054 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 536

2.3.3055 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 537

2.3.3056 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 538

2.3.3057 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 539

2.3.3058 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^4,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 540

2.3.3059 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^5,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 541

2.3.3060 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x-1)*(a*x+1)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 628

2.3.3061 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x-1)/(a*x+1)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 654

2.3.3062 Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} x^2 \sqrt{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 668

2.3.3063 Giac [F(-2)]

Exception generated.

$$\int e^{2\coth^{-1}(ax)} x^3 \sqrt{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x-1)*(a*x+1)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 673

2.3.3064 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} x^2 \sqrt{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 683

2.3.3065 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^3}{(c - a^2 c x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="
giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt](#)

Test file number 199

Integral number in file 692

2.3.3066 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^5}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^5/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 699

2.3.3067 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^3}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 701

2.3.3068 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)} \sqrt{c - a^2 cx^2}}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((-a^2*c*x^2+c)^(1/2)*((a*x-1)/(a*x+1))^(1/2)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 711

2.3.3069 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^3*(-a^2*c*x^2+c)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 712

2.3.3070 Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 730

2.3.3071 Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x-1)*(a*x+1)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 731

2.3.3072 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(-a^2*c*x^2+c)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 734

2.3.3073 Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^m*(-a^2*c*x^2+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="gi
ac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 735

2.3.3074 Giac [F(-2)]

Exception generated.

$$\int e^{n \coth^{-1}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arccoth(a*x))*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 744

2.3.3075 Giac [F(-2)]

Exception generated.

$$\int e^{n \coth^{-1}(ax)} \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(exp(n*arccoth(a*x))*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 745

2.3.3076 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)} x^3}{(c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(n*arccoth(a*x))*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 751

2.3.3077 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)} x^3}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(n*arccoth(a*x))*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 757

2.3.3078 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 793

2.3.3079 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 835

2.3.3080 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 836

2.3.3081 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac"
)
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 837

2.3.3082 Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x-1)*(a*x+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 841

2.3.3083 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x-1)*(a*x+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 842

2.3.3084 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x-1)*(a*x+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 843

2.3.3085 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x-1)*(a*x+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 844

2.3.3086 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x-1)*(a*x+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 845

2.3.3087 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 853

2.3.3088 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 854

2.3.3089 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: Bad A
rgument Type

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 859

2.3.3090 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 860

2.3.3091 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 861

2.3.3092 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 862

2.3.3093 Giac [F(-2)]

Exception generated.

$$\int e^{-2\coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c-c/a^2/x^2)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 866

2.3.3094 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x-1)/(a*x+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 867

2.3.3095 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x-1)/(a*x+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 868

2.3.3096 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x-1)/(a*x+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 869

2.3.3097 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x-1)/(a*x+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 870

2.3.3098 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 876

2.3.3099 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 877

2.3.3100 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 878

2.3.3101 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 879

2.3.3102 Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x-1)*(a*x+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 889

2.3.3103 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}}}{x} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a^2/x^2)^(1/2)/x,x, algorithm="gia
c")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 899

2.3.3104 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}}}{x^3} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a^2/x^2)^(1/2)/x^3,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 901

2.3.3105 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}}}{x^5} dx = \text{Exception raised: RuntimeError}$$

[In] integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a^2/x^2)^(1/2)/x^5,x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 903

2.3.3106 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}}}{x} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((c-c/a^2/x^2)^(1/2)*((a*x-1)/(a*x+1))^(1/2)/x,x, algorithm="giac"
)
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 908

2.3.3107 Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c-c/a^2/x^2)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Err
or: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 913

2.3.3108 Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{coth}^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(exp(n*arccoth(a*x))*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Ex-
ponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 931

2.3.3109 Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + b \operatorname{sech}^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^11*(a+b*arcsech(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-
a+b_arcsech-c_x^-n.txt

Test file number 200

Integral number in file 186

2.3.3110 Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b\operatorname{sech}^{-1}(cx))}{\sqrt{1 - c^4x^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^7*(a+b*arcsech(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.1_u-a+b_arcsech-c_x^n.txt

Test file number 200

Integral number in file 187

2.3.3111 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^4 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x+(1/a/x-1)^(1/2)*(1+1/a/x)^(1/2))*x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,3,2,2,0,0]}%%+%%{1,[0,2,0,1,1,1]}%% / %%{1,[0,0,2,3,
0,0]}%%
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 32

2.3.3112 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x+(1/a/x-1)^(1/2)*(1+1/a/x)^(1/2))*x^3,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,2,2,2,0,0]%%}+%%{1,[0,1,0,1,1,1]%%} / %%{1,[0,0,2,3,
0,0]%%
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_In-verse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 33

2.3.3113 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x+(1/a/x-1)^(1/2)*(1+1/a/x)^(1/2))*x^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,1,2,2,0,0]%%}+%%{1,[0,0,0,1,1,1]%%} / %%{1,[0,0,2,3,
0,0]%%
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_In-verse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 34

2.3.3114 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^6 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x^2+(1/a/x^2-1)^(1/2)*(1/a/x^2+1)^(1/2))*x^6,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding
error%%{1,[0,4,2,1,1,1]%%}+%%{1,[0,4,0,0,0,2]%%} / %%{1,[0,0,0,0,0,3]%%}
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 46

2.3.3115 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^4 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x^2+(1/a/x^2-1)^(1/2)*(1/a/x^2+1)^(1/2))*x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding
error%%{1,[0,2,2,1,1,1]%%}+%%{1,[0,2,0,0,0,2]%%} / %%{1,[0,0,0,0,0,3]%%}
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 48

2.3.3116 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x^2+(1/a/x^2-1)^(1/2)*(1/a/x^2+1)^(1/2))*x^2,x, algorithm="g
iac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,2,1,1,1]%%}+%%{1,[0,0,0,0,2]%%} / %%{1,[0,0,0,0,3]%%
%} Err
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_In-
verse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 50

2.3.3117 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x^2+(1/a/x^2-1)^(1/2)*(1/a/x^2+1)^(1/2))*x,x, algorithm="gia
c")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_In-
verse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 51

2.3.3118 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{sech}^{-1}(ax^2)}}{x^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((1/a/x^2+(1/a/x^2-1)^(1/2)*(1/a/x^2+1)^(1/2))/x^3,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to
make series expansion Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 55

2.3.3119 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^m dx = \text{Exception raised: TypeError}$$

[In] integrate((1/a/x^2+(1/a/x^2-1)^(1/2)*(1/a/x^2+1)^(1/2))*x^m,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 57

2.3.3120 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{sech}^{-1}(ax)} x^4 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x+(1/a/x-1)^(1/2)*(1+1/a/x)^(1/2))^2*x^4,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-1, [0,4,0,6,0,0]%%}+%%{1, [0,2,4,4,0,0]%%}+%%{1, [0,2,0,4,0
,0]%%}
```

input file name 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/7.5.2_Inverse_hyperbolic_secant_functions.txt

Test file number 201

Integral number in file 65

2.3.3121 Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + b\operatorname{arcsch}^{-1}(cx))}{\sqrt{1 - c^4x^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^11*(a+b*arccsch(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt

Test file number 202

Integral number in file 174

2.3.3122 Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b\operatorname{csch}^{-1}(cx))}{\sqrt{1 - c^4x^4}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^7*(a+b*arccsch(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.1_u-a+b_arccsch-c_x-^n.txt](#)

[Test file number 202](#)

[Integral number in file 175](#)

2.3.3123 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{csch}^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1/a/x+(1+1/a^2/x^2)^(1/2))*x^m,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name [7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_Inverse_hyperbolic_cosecant_functions.txt](#)

[Test file number 203](#)

[Integral number in file 26](#)

2.3.3124 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{csch}^{-1}(ax)}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((1/a/x+(1+1/a^2/x^2)^(1/2))/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_Inverse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 32

2.3.3125 Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{csch}^{-1}(ax^2)} x^m dx = \text{Exception raised: TypeError}$$

[In] integrate((1/a/x^2+(1+1/a^2/x^4)^(1/2))*x^m,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_Inverse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 37

2.3.3126 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{csch}^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

[In] integrate((1/a/x+(1+1/a^2/x^2)^(1/2))^2*x^m,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_In-
verse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 48

2.3.3127 Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{csch}^{-1}(ax)} dx = \text{Exception raised: TypeError}$$

[In] integrate((1/a/x+(1+1/a^2/x^2)^(1/2))^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_In-
verse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 53

2.3.3128 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{csch}^{-1}(cx)}(dx)^m}{1+c^2x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((1/c/x+(1+1/c^2/x^2)^(1/2))*(d*x)^m/(c^2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/7.6.2_Inverse_hyperbolic_cosecant_functions.txt

Test file number 203

Integral number in file 59

2.3.3129 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-x^2+x^8}} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate(1/(x^8-x^2)^(1/2),x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -atan
(i)/3*sign(sageVARx)+1/3*atan(sqrt(sageVARx^6-1))/sign(sageVARx)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 189

2.3.3130 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10}\sqrt{-1+x^6}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^10/(x^6-1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 233

2.3.3131 Giac [F(-2)]

Exception generated.

$$\int \frac{1+x^6}{x^{10}\sqrt{-1+x^6}} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^6+1)/x^10/(x^6-1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 234

2.3.3132 Giac [F(-2)]

Exception generated.

$$\int \frac{1+x^{12}}{x^{16}\sqrt{-1+x^6}} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^12+1)/x^16/(x^6-1)^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 342

2.3.3133 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)\sqrt{-1+x^6}}{x^7(1+x^3)} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate((x^3-1)*(x^6-1)^(1/2)/x^7/(x^3+1),x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 2/3*sign(sageVARx)+2*(1/12*(1/sageVARx)^3/sign(sageVARx)-1/3/sign(sageVARx))*sqrt(-(1/sageVARx)^6+1)+3/2/sign(sageVARx)*(-atan(i)/3*sign(sageVARx)+1/3*atan(sqrt(sageVARx^6

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 539

2.3.3134 Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)\sqrt{-1+x^6}}{x^7(-1+x^3)} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((x^3+1)*(x^6-1)^(1/2)/x^7/(x^3-1),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -2/3*
sign(sageVARx)+2*(1/12*(1/sageVARx)^3/sign(sageVARx)+1/3/sign(sageVARx))*sq
rt(-(1/sageVARx)^6+1)+3/2/sign(sageVARx)*(-atan(i)/3*sign(sageVARx)+1/3*ata
n(sqrt(sageVARx^
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 540

2.3.3135 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)\sqrt{-1+x^6}}{x^{10}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((x^3-1)*(x^6-1)^(1/2)/x^10,x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 1/9*s
ign(sageVARx)+2*((1/sageVARx)^3*(1/18*(1/sageVARx)^3/sign(sageVARx)-1/12/si
gn(sageVARx))-1/18/sign(sageVARx))*sqrt(-(1/sageVARx)^6+1)+1/2/sign(sageVAR
x)*(-atan(i)/3*s
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 627

2.3.3136 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^6)(1+x^6)}{\sqrt[4]{x-x^4+x^7}(1+3x^6+x^{12})} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((x^6-1)*(x^6+1)/(x^7-x^4+x)^(1/4)/(x^12+3*x^6+1),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value
integrate((sageVARx^12+3*sageVARx^6+1)^-1*((sageVARx^7-sageVARx^4+sageVARx)^(1/4))^-1*(s
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 641

2.3.3137 Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)\sqrt{-1+x^6}}{x^{13}(-1+x^3)} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((x^3+1)*(x^6-1)^(1/2)/x^13/(x^3-1),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -4/9*
sign(sageVARx)+2*((1/sageVARx)^3*((1/sageVARx)^3*(1/24*(1/sageVARx)^3/sign(
sageVARx)+1/9/sign(sageVARx))+7/48/sign(sageVARx))+2/9/sign(sageVARx))*sqrt
(-(1/sageVARx)^6
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 657

2.3.3138 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)\sqrt{-1+x^6}}{x^{13}} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((x^3-1)*(x^6-1)^(1/2)/x^13,x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -1/9*
sign(sageVARx)+2*((1/sageVARx)^3*((1/sageVARx)^3*(1/24*(1/sageVARx)^3/sign(
sageVARx)-1/18/sign(sageVARx))-1/48/sign(sageVARx))+1/18/sign(sageVARx))*sq
rt(-(1/sageVARx))
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 694

2.3.3139 Giac [F(-2)]

Exception generated.

$$\int \frac{a(ab+ac-3bc)+(-2a^2+ab+ac+3bc)x+(a-2b-2c)x^2+x^3}{\sqrt{(-a+x)(-b+x)(-c+x)}(-bc-a^3d+(b+c+3a^2d)x-(1+3ad)x^2+dx^3)} dx$$

= Exception raised: TypeError

```
[In] integrate((a*(a*b+a*c-3*b*c)+(-2*a^2+a*b+a*c+3*b*c)*x+(a-2*b-2*c)*x^2+x^3)/
((-a+x)*(-b+x)*(-c+x))^(1/2)/(-b*c-a^3*d+(3*a^2*d+b+c)*x-(3*a*d+1)*x^2+d*x^
3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 781

2.3.3140 Giac [F(-2)]

Exception generated.

$$\int \frac{-x^2 + 10x^8}{\sqrt{-1 + x^6}(-1 + 4x^6)} dx = \text{Exception raised: TypeError}$$

[In] integrate((10*x^8-x^2)/(x^6-1)^(1/2)/(4*x^6-1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:rootof minimal polynomial must be uni
tary Error: Bad Argument Valuerootof minimal polynomial must be unitary Err
or: Ba

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 851

2.3.3141 Giac [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(2 + x^3 + x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(x^6+x^3+2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valueinte
grate((sageVARx^6+sageVARx^3+2)^-1*((sageVARx^3+1)^(1/3))^2*(sageVARx^3-2)/
sageVARx^

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 962

2.3.3142 Giac [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(2 + x^3 + x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] `integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(x^6+x^3+2),x, algorithm="giac")`

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valueinte
 grate((sageVARx^6+sageVARx^3+2)^-1*((sageVARx^3+1)^(1/3))^2*(sageVARx^3-2)/
 sageVARx^

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 963

2.3.3143 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(-1 + x^3) \sqrt[3]{-x^2 + x^3}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(x^3-1)/(x^3-x^2)^(1/3),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Ba
 d Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 969

2.3.3144 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(-1+x^3)\sqrt[3]{-x^2+x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(x^3-1)/(x^3-x^2)^(1/3),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 970

2.3.3145 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + \sqrt{ax + \sqrt{b + a^2x^2}}}}{\sqrt{b + a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+(a*x+(a^2*x^2+b)^(1/2))^(1/2))^(1/2)/(a^2*x^2+b)^(1/2),x, algo
rithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1025

2.3.3146 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-1+x^4}(1-x^4+x^8)}{x^6(1+2x^8)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^4-1)^(1/4)*(x^8-x^4+1)/x^6/(2*x^8+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1040

2.3.3147 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-1+x^4}(1-x^4+x^8)}{x^6(1+2x^8)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^4-1)^(1/4)*(x^8-x^4+1)/x^6/(2*x^8+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1041

2.3.3148 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(2+x^3)}{x^6(2+x^3+2x^6)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(2*x^6+x^3+2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valueinte
grate((2*sageVARx^6+sageVARx^3+2)^-1*(sageVARx^3+2)*((sageVARx^3-1)^(1/3))^
2/sageVAR
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1052

2.3.3149 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(2+x^3)}{x^6(2+x^3+2x^6)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(2*x^6+x^3+2),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valueinte
grate((2*sageVARx^6+sageVARx^3+2)^-1*(sageVARx^3+2)*((sageVARx^3-1)^(1/3))^
2/sageVAR
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1053

2.3.3150 Giac [F(-2)]

Exception generated.

$$\int \frac{1+x}{\sqrt{-7+4x+14x^2-12x^3+x^4}} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate((1+x)/(x^4-12*x^3+14*x^2+4*x-7)^(1/2),x, algorithm="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: (-atan(i)+ln(4*sqrt(2)))*sign(sageVARx-1)+2*(1/2*atan(1/4*(-sageVARx+sqrt(sageVARx^2-10*sageVARx-7)+1))/sign(sageVARx-1)-1/2*ln(abs(-sageVARx+sqrt(sageVARx^2-10*sageVARx-7

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1081

2.3.3151 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{-bx^2+ax^4}(b+ax^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x^4-b*x^2)^(1/4)/(a*x^8+b),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1092

2.3.3152 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{-bx^2 + ax^4}(b + ax^8)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x^4-b*x^2)^(1/4)/(a*x^8+b),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1093

2.3.3153 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{-bx^2 + ax^4}(-b + ax^8)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x^4-b*x^2)^(1/4)/(a*x^8-b),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1105

2.3.3154 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{-bx^2 + ax^4}(-b + ax^8)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a*x^4-b*x^2)^(1/4)/(a*x^8-b),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1106

2.3.3155 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-1 + x^6}(-1 + 2x^6)^2}{x^4(-1 + 4x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^6-1)^(1/2)*(2*x^6-1)^2/x^4/(4*x^6-1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:rootof minimal polynomial must be uni
tary Error: Bad Argument Valuerootof minimal polynomial must be unitary Err
or: Ba
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1145

2.3.3156 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{bx^2 + ax^4}(-2b + ax^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x^4+b*x^2)^(1/4)/(a*x^8-2*b),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1149

2.3.3157 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{bx^2 + ax^4}(-2b + ax^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x^4+b*x^2)^(1/4)/(a*x^8-2*b),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1150

2.3.3158 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^4) \sqrt{1 + x^4}}{1 + x^2 + 3x^4 + x^6 + x^8} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^4-1)*(x^4+1)^(1/2)/(x^8+x^6+3*x^4+x^2+1),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT: *** Warning: increasing stack size to 2048000. ***
 Warning: increasing stack size to 2048000. *** Warning: increasing stack size to

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1256

2.3.3159 Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^8}{\sqrt[4]{-x^2 + x^4} (1 + x^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^8-1)/(x^4-x^2)^(1/4)/(x^8+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Invalid _EXT in replace_ext Error: Ba
 d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1309

2.3.3160 Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^8}{\sqrt[4]{-x^2 + x^4}(1 + x^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^8-1)/(x^4-x^2)^(1/4)/(x^8+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
 d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone
 input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1310

2.3.3161 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^6(1+x^3)\sqrt[3]{x^2+x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^6/(x^3+1)/(x^3+x^2)^(1/3),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
 d Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1413

2.3.3162 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^6(1+x^3)\sqrt[3]{x^2+x^3}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/x^6/(x^3+1)/(x^3+x^2)^(1/3),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1414

2.3.3163 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)\sqrt{1+\sqrt{1+x}}}{1+x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2-1)*(1+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1432

2.3.3164 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)\sqrt{1+\sqrt{1+x}}}{1+x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2-1)*(1+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1433

2.3.3165 Giac [F(-2)]

Exception generated.

$$\int \frac{(-2+x^2)\sqrt[3]{x+x^3}}{x^2(4-2x^2+x^4)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((x^2-2)*(x^3+x)^(1/3)/x^2/(x^4-2*x^2+4),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInva
lid _EXT in replace_ext Error: Bad Argument Value6*((1/sageVARx)^2+1)^(1/3)
/8+integr
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1553

2.3.3166 Giac [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^2) \sqrt[3]{x + x^3}}{x^2(4 - 2x^2 + x^4)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^2-2)*(x^3+x)^(1/3)/x^2/(x^4-2*x^2+4),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument Value6*((1/sageVARx)^2+1)^(1/3)/8+integr

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1554

2.3.3167 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + x^3)^{2/3} (4 + 6x^3 + 3x^6)}{x^6 (8 + 6x^3 + 3x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^3+1)^(2/3)*(3*x^6+6*x^3+4)/x^6/(3*x^6+6*x^3+8),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valueintegrate((3*sageVARx^6+6*sageVARx^3+8)^-1*(3*sageVARx^6+6*sageVARx^3+4)*((sageVARx^3+1)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1674

2.3.3168 Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(4+6x^3+3x^6)}{x^6(8+6x^3+3x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^3+1)^(2/3)*(3*x^6+6*x^3+4)/x^6/(3*x^6+6*x^3+8),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value
integrate((3*sageVARx^6+6*sageVARx^3+8)^-1*(3*sageVARx^6+6*sageVARx^3+4)*((sageVARx^3+1)

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1675

2.3.3169 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt[4]{x^2+x^4}(1+x^4+x^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4/(x^4+x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:
INPUT:sage2:=int(sage0,sageVARx);OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot
error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1
]proot

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1692

2.3.3170 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt[4]{x^2 + x^4}(1 + x^4 + x^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^4/(x^4+x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:root error [1,0,0,0,1,0,0,0,1]proot
 error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1
]proot

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1693

2.3.3171 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + 2x^2) \sqrt[3]{x + 2x^3}}{x^4(1 + 2x^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate((2*x^2+1)*(2*x^3+x)^(1/3)/x^4/(2*x^4+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
 d Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1711

2.3.3172 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{x + 2x^3}(-1 + x^4)}{x^4(2 - x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

[In] integrate((2*x^3+x)^(1/3)*(x^4-1)/x^4/(x^4-x^2+2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1764

2.3.3173 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(8 - 10x^2 + x^4)}{x^4(4 - 2x^2 + x^4)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^3-x)^(1/3)*(x^4-10*x^2+8)/x^4/(x^4-2*x^2+4),x, algorithm="giac
")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value(307
2*(-(1/sageVARx)^2+1)^(1/3)*(-(1/sageVARx)^2+1)+9216*(-(1/sageVARx)^2+1)^(1
/3))/4096

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1778

2.3.3174 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(8 - 10x^2 + x^4)}{x^4(4 - 2x^2 + x^4)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^3-x)^(1/3)*(x^4-10*x^2+8)/x^4/(x^4-2*x^2+4),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value(307
2*(-(1/sageVARx)^2+1)^(1/3)*(-(1/sageVARx)^2+1)+9216*(-(1/sageVARx)^2+1)^(1
/3))/4096

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1779

2.3.3175 Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + x^4) \sqrt[4]{-x^2 + x^4}}{1 + x^4 + x^8} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^4+1)*(x^4-x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot
error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1
]proot

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1793

2.3.3176 Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^4)\sqrt[4]{-x^2+x^4}}{1+x^4+x^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^4+1)*(x^4-x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot
error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1
]proot
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1794

2.3.3177 Giac [F(-2)]

Exception generated.

$$\int \frac{1+k^{3/2}x^3}{\sqrt{(1-x^2)(1-k^2x^2)}(-1+k^{3/2}x^3)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+k^(3/2)*x^3)/((-x^2+1)*(-k^2*x^2+1))^(1/2)/(-1+k^(3/2)*x^3),x,
algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1824

2.3.3178 Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + k^{3/2}x^3}{\sqrt{(1-x^2)(1-k^2x^2)}(1+k^{3/2}x^3)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-1+k^(3/2)*x^3)/((-x^2+1)*(-k^2*x^2+1))^(1/2)/(1+k^(3/2)*x^3),x,
algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1837

2.3.3179 Giac [F(-2)]

Exception generated.

$$\int \frac{2+x^4}{\sqrt[4]{x^2+x^4}(-1-x^4+2x^8)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^4+2)/(x^4+x^2)^(1/4)/(2*x^8-x^4-1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1851

2.3.3180 Giac [F(-2)]

Exception generated.

$$\int \frac{2 + x^4}{\sqrt[4]{x^2 + x^4}(-1 - x^4 + 2x^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^4+2)/(x^4+x^2)^(1/4)/(2*x^8-x^4-1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1852

2.3.3181 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}(-1+x^2)}{(1+x^2)\sqrt{1+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(1/2)*(x^2-1)/(x^2+1)/(1+(1+x)^(1/2))^(1/2),x, algorithm="g
iac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1882

2.3.3182 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}(-1+x^2)}{(1+x^2)\sqrt{1+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(1/2)*(x^2-1)/(x^2+1)/(1+(1+x)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command: INPUT:sage2:OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1883

2.3.3183 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^6)(1+x^6)^{2/3}}{x^3(2-x^3+2x^6)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^6-1)*(x^6+1)^(2/3)/x^3/(2*x^6-x^3+2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command: INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valueintegrate((2*sageVARx^6-sageVARx^3+2)^-1*((sageVARx^6+1)^(1/3))^2*(sageVARx^6-1)/sageVAR

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1919

2.3.3184 Giac [F(-2)]

Exception generated.

$$\int \frac{-b + ax^8}{\sqrt[4]{-bx^2 + ax^4}(b + ax^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^8-b)/(a*x^4-b*x^2)^(1/4)/(a*x^8+b),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1967

2.3.3185 Giac [F(-2)]

Exception generated.

$$\int \frac{-b + ax^8}{\sqrt[4]{-bx^2 + ax^4}(b + ax^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^8-b)/(a*x^4-b*x^2)^(1/4)/(a*x^8+b),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1968

2.3.3186 Giac [F(-2)]

Exception generated.

$$\int \frac{b + ax^8}{\sqrt[4]{-bx^2 + ax^4}(-b + ax^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^8+b)/(a*x^4-b*x^2)^(1/4)/(a*x^8-b),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1982

2.3.3187 Giac [F(-2)]

Exception generated.

$$\int \frac{b + ax^8}{\sqrt[4]{-bx^2 + ax^4}(-b + ax^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^8+b)/(a*x^4-b*x^2)^(1/4)/(a*x^8-b),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Va
lue

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 1983

2.3.3188 Giac [F(-2)]

Exception generated.

$$\int \frac{2+x+x^2}{(3+2x+x^2)\sqrt[3]{x^2+x^3}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((x^2+x+2)/(x^2+2*x+3)/(x^3+x^2)^(1/3),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value-ln(
abs((1/sageVARx+1)^(1/3)-1))+1/2*ln(((1/sageVARx+1)^(1/3))^2+(1/sageVARx+1)
^(1/3)+1)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2047

2.3.3189 Giac [F(-2)]

Exception generated.

$$\int \frac{2+x+x^2}{(3+2x+x^2)\sqrt[3]{x^2+x^3}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((x^2+x+2)/(x^2+2*x+3)/(x^3+x^2)^(1/3),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value-ln(
abs((1/sageVARx+1)^(1/3)-1))+1/2*ln(((1/sageVARx+1)^(1/3))^2+(1/sageVARx+1)
^(1/3)+1)
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2048

2.3.3190 Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{\sqrt{1+x}(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2-1)/(1+x)^(1/2)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Bad
Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid
_EXT

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2152

2.3.3191 Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{\sqrt{1+x}(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2-1)/(1+x)^(1/2)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Bad
Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid
_EXT

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2153

2.3.3192 Giac [F(-2)]

Exception generated.

$$\int \frac{x(-4a + 3x)}{\sqrt[3]{x^2(-a + x)}(a - x + dx^4)} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(x*(-4*a+3*x)/(x^2*(-a+x))^(1/3)/(d*x^4+a-x),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 1/2*(
-1/sageVARd)^(1/3)*ln((sqrt(3)*(abs(sageVARd)^(1/3))^2*sqrt(3)/2*(-sageVARa
/sageVARx+1)^(1/3)*(-sageVARa/sageVARx+1)-sqrt(3)*(abs(sageVARd)^(1/3))^2*s
qrt(3)/2*(-sageV
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2162

2.3.3193 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 + \sqrt{1 - \sqrt{1 + \frac{1}{x^2}}}}}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((1+(1-(1+1/x^2)^(1/2))^(1/2))^(1/2)/x,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad A
rgument ValueError index.cc index_gcd Error: Bad Argument ValueError index.
cc ind
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2171

2.3.3194 Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)\sqrt{-2-x^3+x^6}}{x^4(-1-2x^3+x^6)} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((x^3+1)*(x^6-x^3-2)^(1/2)/x^4/(x^6-2*x^3-1),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2203

2.3.3195 Giac [F(-2)]

Exception generated.

$$\int \sqrt{-\frac{a}{b^2} + \frac{a^2x^2}{b^2}} \sqrt{ax^2 + bx} \sqrt{-\frac{a}{b^2} + \frac{a^2x^2}{b^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a/b^2+a^2*x^2/b^2)^(1/2)*(a*x^2+b*x*(-a/b^2+a^2*x^2/b^2)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2210

2.3.3196 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - \sqrt{1 - \sqrt{1 - \frac{1}{x^2}}}}}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((1-(1-(1-1/x^2)^(1/2))^(1/2))^(1/2)/x,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad A
 rgument ValueError index.cc index_gcd Error: Bad Argument ValueError index.
 cc ind

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2268

2.3.3197 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x^2 + x^3}}{1 + x + x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^3-x^2)^(1/3)/(x^2+x+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Ba
 d Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2338

2.3.3198 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x^2 + x^3}}{1 + x + x^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^3-x^2)^(1/3)/(x^2+x+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueDone
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2339

2.3.3199 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt[4]{-x^2 + x^4}}{1 + x^4 + x^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(x^4-x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot
error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1
]proot
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2371

2.3.3200 Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{-x^2 + x^4}}{1 + x^4 + x^8} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^4*(x^4-x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot
error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1
]proot
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2372

2.3.3201 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{ax + \sqrt{-b + a^2x^2}} \sqrt{c + \sqrt{ax + \sqrt{-b + a^2x^2}}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/x/(a*x+(a^2*x^2-b)^(1/2))^(1/2)/(c+(a*x+(a^2*x^2-b)^(1/2))^(1/2
))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2377

2.3.3202 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{1-x\sqrt{c+bx+ax^2}} dx = \text{Exception raised: TypeError}$$

[In] `integrate(1/(1-x*(a*x^2+b*x+c)^(1/2)),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2476

2.3.3203 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x+\sqrt{1+x}}}{1+x^2} dx = \text{Exception raised: TypeError}$$

[In] `integrate((x+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")`

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Invalid _EXT in replace_ext Error: Ba
 d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2484

2.3.3204 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1 + x}}}{1 + x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((x+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2485

2.3.3205 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1 + x}}}{\sqrt{1 + x}(1 + x^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x+(1+x)^(1/2))^(1/2)/(1+x)^(1/2)/(x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2511

2.3.3206 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1 + x}}}{\sqrt{1 + x}(1 + x^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x+(1+x)^(1/2))^(1/2)/(1+x)^(1/2)/(x^2+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2512

2.3.3207 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^2) \sqrt[4]{x^3 + x^4}}{1 + x^2 + x^4} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2-1)*(x^4+x^3)^(1/4)/(x^4+x^2+1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:root error [1,0,0,0,1,0,0,0,1]proot
error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1
]proot
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2523

2.3.3208 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)\sqrt[4]{x^3+x^4}}{1+x^2+x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2-1)*(x^4+x^3)^(1/4)/(x^4+x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:root error [1,0,0,0,1,0,0,0,1]proot
 error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1
]proot

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2524

2.3.3209 Giac [F(-2)]

Exception generated.

$$\int \frac{(-4b+ax^4)\sqrt[4]{-b+ax^4}}{x^6(-8b+ax^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a*x^4-4*b)*(a*x^4-b)^(1/4)/x^6/(a*x^8-8*b),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
 ding error%%{4,[0,1,4,1,0]%%}+%%{-1,[0,1,0,0,1]%%} / %%{8,[0,0,0,1,0]%%
 %%} Er

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2567

2.3.3210 Giac [F(-2)]

Exception generated.

$$\int \frac{(-4b + ax^4) \sqrt[4]{-b + ax^4}}{x^6 (-8b + ax^8)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x^4-4*b)*(a*x^4-b)^(1/4)/x^6/(a*x^8-8*b),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{4,[0,1,4,1,0]%%}+%%{-1,[0,1,0,0,1]%%} / %%{8,[0,0,0,1,0]%%}
%%} Er
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2568

2.3.3211 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{b^2 + a^2 x^3} (2b^2 + cx^3 + a^2 x^6)}{x (b^2 + a^2 x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*x^3+b^2)^(1/2)*(a^2*x^6+c*x^3+2*b^2)/x/(a^2*x^6+b^2),x, algo
rithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2610

2.3.3212 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{-\frac{a}{b^2} + \frac{a^2 x^2}{b^2}}}{\sqrt{ax^2 + bx} \sqrt{-\frac{a}{b^2} + \frac{a^2 x^2}{b^2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3*(-a/b^2+a^2*x^2/b^2)^(1/2)/(a*x^2+b*x*(-a/b^2+a^2*x^2/b^2)^(1/2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2638

2.3.3213 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + \sqrt{b + a^2 x^2}} \sqrt{c + \sqrt{ax + \sqrt{b + a^2 x^2}}}}{(b + a^2 x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+(a^2*x^2+b)^(1/2))^(1/2)*(c+(a*x+(a^2*x^2+b)^(1/2))^(1/2))^(1/2)/(a^2*x^2+b)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2646

2.3.3214 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + \sqrt{b + a^2x^2}} \sqrt{c + \sqrt{ax + \sqrt{b + a^2x^2}}}}{(b + a^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+(a^2*x^2+b)^(1/2))^(1/2)*(c+(a*x+(a^2*x^2+b)^(1/2))^(1/2))^(1/2)/(a^2*x^2+b)^(3/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2647

2.3.3215 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{b^2 + a^2x^3}(2b^2 + cx^3 + a^2x^6)}{x^7(b^2 + a^2x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*x^3+b^2)^(1/2)*(a^2*x^6+c*x^3+2*b^2)/x^7/(a^2*x^6+b^2),x, al
gorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2709

2.3.3216 Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(-2+x^8)\sqrt[4]{2-2x^4+x^8}}{(2+x^8)(4-x^4+2x^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate(x^2*(x^8-2)*(x^8-2*x^4+2)^(1/4)/(x^8+2)/(2*x^8-x^4+4),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad
Argument ValueDone

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2711

2.3.3217 Giac [F(-2)]

Exception generated.

$$\int \frac{-1+x^2}{(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2-1)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad
Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid
_EXT

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2712

2.3.3218 Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{(1 + x^2) \sqrt{x + \sqrt{1 + x}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((x^2-1)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Ba
d Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvali
d _EXT
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2713

2.3.3219 Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt[3]{-x^2 + x^3} (-1 + x^6)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x^3/(x^3-x^2)^(1/3)/(x^6-1),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:proot error [1,0,0,1,0,0,1]proot erro
r [1,0,0,-1,0,0,1]Invalid _EXT in replace_ext Error: Bad Argument Valueproo
t erro
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2752

2.3.3220 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)^2(x+x^3)}{\sqrt{1+x^4}(1-2x^2+4x^4-2x^6+x^8)} dx = \text{Exception raised: TypeError}$$

[In] integrate((x^2-1)^2*(x^3+x)/(x^4+1)^(1/2)/(x^8-2*x^6+4*x^4-2*x^2+1),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Bad
d Argument ValueNot invertible Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2761

2.3.3221 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{1-(1+x)\sqrt{c+bx+ax^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(1-(1+x)*(a*x^2+b*x+c)^(1/2)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2798

2.3.3222 Giac [F(-2)]

Exception generated.

$$\int \sqrt{ax + \sqrt{b + a^2x^2}} \sqrt{c + \sqrt{ax + \sqrt{b + a^2x^2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x+(a^2*x^2+b)^(1/2))^(1/2)*(c+(a*x+(a^2*x^2+b)^(1/2))^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2828

2.3.3223 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + \sqrt{ax + \sqrt{b + a^2x^2}}}}{(b + a^2x^2)^{3/2} \sqrt{ax + \sqrt{b + a^2x^2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((c+(a*x+(a^2*x^2+b)^(1/2))^(1/2))^(1/2)/(a^2*x^2+b)^(3/2)/(a*x+(a
^2*x^2+b)^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2830

2.3.3224 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + \sqrt{ax + \sqrt{b + a^2x^2}}}}{(b + a^2x^2)^{3/2} \sqrt{ax + \sqrt{b + a^2x^2}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+(a*x+(a^2*x^2+b)^(1/2))^(1/2))^(1/2)/(a^2*x^2+b)^(3/2)/(a*x+(a^2*x^2+b)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2831

2.3.3225 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + \sqrt{ax^2 + x\sqrt{-b + a^2x^2}}}}{\sqrt{-b + a^2x^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((c+(a*x^2+x*(a^2*x^2-b)^(1/2))^(1/2))^(1/2)/(a^2*x^2-b)^(1/2),x,
algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2852

2.3.3226 Giac [F(-2)]

Exception generated.

$$\int \sqrt{-\frac{a}{b^2} + \frac{a^2 x^2}{b^2}} \sqrt[3]{ax^2 + bx} \sqrt{-\frac{a}{b^2} + \frac{a^2 x^2}{b^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-a/b^2+a^2*x^2/b^2)^(1/2)*(a*x^2+b*x*(-a/b^2+a^2*x^2/b^2)^(1/2))
^(1/3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2917

2.3.3227 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + bx + ax^2)^{5/2}}{c + bx} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x^2+b*x+c)^(5/2)/(b*x+c),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2921

2.3.3228 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}(-1+x^2)}{(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(1/2)*(x^2-1)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Bad
Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid
_EXT

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2924

2.3.3229 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}(-1+x^2)}{(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((1+x)^(1/2)*(x^2-1)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Bad
Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid
_EXT

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2925

2.3.3230 Giac [F(-2)]

Exception generated.

$$\int \frac{abc - b^2x + a^2x^2}{\sqrt{c + bx + ax^2}(c + bx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*x^2+a*b*c-b^2*x)/(a*x^2+b*x+c)^(1/2)/(b*x^2+c),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 2931

2.3.3231 Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^4)\sqrt{1+\sqrt{x+\sqrt{1+x^2}}}}{\sqrt{1+x^2}(1-x^4)} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((x^4+1)*(1+(x+(x^2+1)^(1/2))^(1/2))^(1/2)/(x^2+1)^(1/2)/(-x^4+1),
x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{pol
y1[-16232886178711429450219333683647001563848436365999727949750274764264752
867482521

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3023

2.3.3232 Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^4)\sqrt{1+\sqrt{x+\sqrt{1+x^2}}}}{\sqrt{1+x^2}(1-x^4)} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((x^4+1)*(1+(x+(x^2+1)^(1/2))^(1/2))^(1/2)/(x^2+1)^(1/2)/(-x^4+1),
x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{pol
y1[-16232886178711429450219333683647001563848436365999727949750274764264752
867482521
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3024

2.3.3233 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-b+a^2x^2}\sqrt{ax+\sqrt{-b+a^2x^2}}}{\sqrt{c+\sqrt{ax+\sqrt{-b+a^2x^2}}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*x^2-b)^(1/2)*(a*x+(a^2*x^2-b)^(1/2))^(1/2)/(c+(a*x+(a^2*x^2-
b)^(1/2))^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3027

2.3.3234 Giac [F(-2)]

Exception generated.

$$\int \frac{(c + bx + ax^2)^{3/2}}{1 - x\sqrt{c + bx + ax^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a*x^2+b*x+c)^(3/2)/(1-x*(a*x^2+b*x+c)^(1/2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3031

2.3.3235 Giac [F(-2)]

Exception generated.

$$\int \sqrt{b + a^2x^2} \sqrt{ax + \sqrt{b + a^2x^2}} \sqrt{c + \sqrt{ax + \sqrt{b + a^2x^2}}} dx$$

= Exception raised: TypeError

```
[In] integrate((a^2*x^2+b)^(1/2)*(a*x+(a^2*x^2+b)^(1/2))^(1/2)*(c+(a*x+(a^2*x^2+
b)^(1/2))^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3045

2.3.3236 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + bx + ax^2} (c^3 + a^3 b^3 x^3)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x^2+b*x+c)^(1/2)/(a^3*b^3*x^3+c^3),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3052

2.3.3237 Giac [F(-2)]

Exception generated.

$$\int \sqrt{\frac{-1 + ax - 2x^2 + 2ax^3 - x^4 + ax^5}{1 + ax - 2x^2 - 2ax^3 + x^4 + ax^5}} dx = \text{Exception raised: TypeError}$$

[In] integrate(((a*x^5+2*a*x^3-x^4+a*x-2*x^2-1)/(a*x^5-2*a*x^3+x^4+a*x-2*x^2+1))
^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3055

2.3.3238 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-b + a^2x^2}}{\sqrt{c + \sqrt{ax + \sqrt{-b + a^2x^2}}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*x^2-b)^(1/2)/(c+(a*x+(a^2*x^2-b)^(1/2))^(1/2))^(1/2),x, algo
rithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3069

2.3.3239 Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-b + a^2x^2}}{\sqrt{ax + \sqrt{-b + a^2x^2}} \sqrt{c + \sqrt{ax + \sqrt{-b + a^2x^2}}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*x^2-b)^(1/2)/(a*x+(a^2*x^2-b)^(1/2))^(1/2)/(c+(a*x+(a^2*x^2-
b)^(1/2))^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3079

2.3.3240 Giac [F(-2)]

Exception generated.

$$\int \sqrt{b + a^2 x^2} \sqrt{c + \sqrt{ax + \sqrt{b + a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a^2*x^2+b)^(1/2)*(c+(a*x+(a^2*x^2+b)^(1/2))^(1/2))^(1/2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3083

2.3.3241 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c_4 + \sqrt{\frac{c_0 + xc_1}{c_2 + xc_3}} c_5 (c_6 + xc_7)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(_C4+((C1*x+_C0)/(C3*x+_C2))^(1/2)*_C5)^(1/2)/(_C7*x+_C6),x,
algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & 1) Error: Bad Argument Valuesym2poly/r2sym(const
gen &

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3100

2.3.3242 Giac [F(-2)]

Exception generated.

$$\int \frac{x(2x^3c_3 - c_4)}{(-x + x^3c_3 + c_4) \sqrt[3]{\frac{xc_0 + x^3c_3 + c_4}{xc_1 + x^3c_3 + c_4}} (x^2 + x^4c_3 + x^6c_3^2 + xc_4 + 2x^3c_3c_4 + c_4^2)} dx$$

= Exception raised: AttributeError

```
[In] integrate(x*(2*_C3*x^3-_C4)/(_C3*x^3+_C4-x)/(( _C3*x^3+_C0*x+_C4)/(_C3*x^3+_C1*x+_C4))^(1/3)/(_C3^2*x^6+2*_C3*_C4*x^3+_C3*x^4+_C4^2+_C4*x+x^2),x, algorith="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3125

2.3.3243 Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^2) \sqrt{c_4 + \sqrt{\frac{c_0 + xc_1}{c_2 + xc_3}} c_5}}{1 + x^2} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((x^2-1)*(_C4+(( _C1*x+_C0)/(_C3*x+_C2))^(1/2)*_C5)^(1/2)/(x^2+1),x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Recursive assumption sageVAR_C0>=((sageVAR_C1*sageVAR_C2*sageVAR_C3-sageVAR_C1*sageVAR_C3*t_nostep^2)/sageVAR_C3^2) ignoredRecursive
assumpti
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3130

2.3.3244 Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c_4 + \sqrt{\frac{c_0 + xc_1}{c_2 + xc_3}} c_5 (c_6 + xc_7)^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(_C4+((C1*x+_C0)/(C3*x+_C2))^(1/2)*_C5)^(1/2)/(_C7*x+_C6)^2,x
, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3137

2.3.3245 Giac [F(-2)]

Exception generated.

$$\int \frac{c_6 + xc_7}{\sqrt{c_4 + \sqrt{\frac{c_0 + xc_1}{c_2 + xc_3}} c_5}} dx = \text{Exception raised: RuntimeError}$$

```
[In] integrate((C7*x+_C6)/(C4+((C1*x+_C0)/(C3*x+_C2))^(1/2)*_C5)^(1/2),x, al
gorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Valuesym2poly/r2sym(const gen & e,const index_
m & i,con
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3140

2.3.3246 Giac [F(-2)]

Exception generated.

$$\int (b + a^2 x^2)^{3/2} \sqrt{ax + \sqrt{b + a^2 x^2}} \sqrt{c + \sqrt{ax + \sqrt{b + a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a^2*x^2+b)^(3/2)*(a*x+(a^2*x^2+b)^(1/2))^(1/2)*(c+(a*x+(a^2*x^2+b)^(1/2))^(1/2))^(1/2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3142

2.3.3247 Giac [F(-2)]

Exception generated.

$$\int \frac{c_8 + xc_9}{\sqrt{c_4 + \sqrt{\frac{c_0 + xc_1}{c_2 + xc_3}} c_5 (c_6 + xc_7)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((_C9*x+_C8)/(_C4+((C1*x+_C0)/(C3*x+_C2))^(1/2)*_C5)^(1/2)/(_C7*
x+_C6),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3150

2.3.3248 Giac [F(-2)]

Exception generated.

$$\int \frac{(c_6 + xc_7)^2}{\sqrt{c_4 + \sqrt{\frac{c_0 + xc_1}{c_2 + xc_3}} c_5}} dx = \text{Exception raised: RuntimeError}$$

[In] integrate((_C7*x+_C6)^2/(_C4+((_C1*x+_C0)/(_C3*x+_C2))^(1/2)*_C5)^(1/2),x,
algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vect
eur & l) Error: Bad Argument Valuesym2poly/r2sym(const gen & e,const index_
m & i,con

input file name 9_Blake_problems/BlakeProblems.txt

Test file number 209

Integral number in file 3154

2.3.3249 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2x^2}{10+7x+x^2+e^{5+x}(10+2x)}}(40x+14x^2+e^{5+x}(40x-16x^2-4x^3))}{100+140x+69x^2+14x^3+x^4+e^{10+2x}(100+40x+4x^2)+e^{5+x}(200+180x+48x^2+4x^3)} dx$$

= Exception raised: TypeError

[In] integrate((((-4*x^3-16*x^2+40*x)*exp(5)*exp(x)+14*x^2+40*x)*exp(2*x^2/((2*x+
10)*exp(5)*exp(x)+x^2+7*x+10)))/((4*x^2+40*x+100)*exp(5)^2*exp(x)^2+(4*x^3+4
8*x^2+180*x+200)*exp(5)*exp(x)+x^4+14*x^3+69*x^2+140*x+100),x, algorithm="g
iac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{4, [1, 16]%%}+%%{-176, [1, 15]%%}+%%{3392, [1, 14]%%}+%%{-374
08, [1,

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7

2.3.3250 Giac [F(-2)]

Exception generated.

$$\int \frac{-20e^{2+\frac{5}{-2+e^2x^4}}x^4 + \left(-4 + 4e^2x^4 - e^4x^8 + e^{\frac{5}{-2+e^2x^4}}(4 - 4e^2x^4 + e^4x^8)\right) \log\left(-1 + e^{\frac{5}{-2+e^2x^4}}\right)}{-4 + 4e^2x^4 - e^4x^8 + e^{\frac{5}{-2+e^2x^4}}(4 - 4e^2x^4 + e^4x^8)} dx$$

= Exception raised: AttributeError

```
[In] integrate((((x^8*exp(2)^2-4*x^4*exp(2)+4)*exp(5/(x^4*exp(2)-2))-x^8*exp(2)^2+4*x^4*exp(2)-4)*log(exp(5/(x^4*exp(2)-2))-1)-20*x^4*exp(2)*exp(5/(x^4*exp(2)-2)))/((x^8*exp(2)^2-4*x^4*exp(2)+4)*exp(5/(x^4*exp(2)-2))-x^8*exp(2)^2+4*x^4*exp(2)-4),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 23

2.3.3251 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{x^3}{8e^3x^2+e^5x^3+e^x(8e^3+e^5x)}} (128e^6x^4 + 16e^3x^5 + 32e^8x^5 + 2e^{10}x^6 + e^{2x}(128e^6 + 32e^8x + 2e^{10}x^2) + e^x(256e^6x^2 + 64e^6x^4 + 16e^8x^5 + e^{10}x^6 + e^{2x}(64e^6 + 16e^8x + e^{10}x^2) + e^x(128e^6x^2$$

= Exception raised: TypeError

```
[In] integrate(((2*x^2*exp(5)^2+32*x*exp(3)*exp(5)+128*exp(3)^2)*exp(x)^2+(4*x^4*exp(5)^2+(64*x^3*exp(3)-2*x^5+4*x^4)*exp(5)+256*x^2*exp(3)^2+(-16*x^4+48*x^3)*exp(3))*exp(x)+2*x^6*exp(5)^2+32*x^5*exp(3)*exp(5)+128*x^4*exp(3)^2+16*x^5*exp(3))*exp(x^3)/((x*exp(5)+8*exp(3))*exp(x)+x^3*exp(5)+8*x^2*exp(3)))/((x^2*exp(5)^2+16*x*exp(3)*exp(5)+64*exp(3)^2)*exp(x)^2+(2*x^4*exp(5)^2+32*x^3*exp(3)*exp(5)+128*x^2*exp(3)^2)*exp(x)+x^6*exp(5)^2+16*x^5*exp(3)*exp(5)+64*x^4*exp(3)^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{64, [0,8,42,46]%%}+%%{-768, [0,8,41,46]%%}+%%{7168, [0,8,41,
44]%%}
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 74

2.3.3252 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{e^{-\frac{4}{\log(x)}} \left(x + e^{\frac{4}{\log(x)}} (65536 + 512x + x^2) \right)}{3 - e^{-\frac{4}{\log(x)}} \left(x + e^{\frac{4}{\log(x)}} (65536 + 512x + x^2) \right) - \frac{4}{\log(x)} \left(-4 - \log^2(x) + e^{\frac{4}{\log(x)}} (-512 - 2) \right)}}{\log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((( -2*x-512)*log(x)^2*exp(4/log(x))-log(x)^2-4)*exp(((x^2+512*x+65536)*exp(4/log(x))+x)/exp(4/log(x)))*exp(-exp(((x^2+512*x+65536)*exp(4/log(x))+x)/exp(4/log(x))))+3)/log(x)^2/exp(4/log(x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:int(sage0,sageVARx) Error: Invalid d
imension
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 176

2.3.3253 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5 + (-2 - 36x^2 - e^{2x}x^2 - 24x^3 - 4x^4 + e^x(12x^2 + 4x^3)) \log\left(\frac{1}{2}(4 + e^x)\right)}{\log\left(\frac{1}{2}(4 + e^x)\right)}}{\frac{(-5e^x + (-288x - 288x^2 - 64x^3 + e^{3x}(-2x - 2x^2)) + e^x(4 + e^x) \log^2\left(\frac{1}{2}(4 + e^x)\right))}{(4 + e^x) \log^2\left(\frac{1}{2}(4 + e^x)\right)}}$$

= Exception raised: TypeError

```
[In] integrate(((( -2*x^2-2*x)*exp(x)^3+(4*x^3+16*x^2+16*x)*exp(x)^2+(24*x^2+24*x)*exp(x)-64*x^3-288*x^2-288*x)*log(1/2*exp(x)+2)^2-5*exp(x))*exp((( -exp(x)^2*x^2+(4*x^3+12*x^2)*exp(x)-4*x^4-24*x^3-36*x^2-2)*log(1/2*exp(x)+2)+5)/log(1/2*exp(x)+2))/(exp(x)+4)/log(1/2*exp(x)+2)^2,x, algorithm="giac")
```


[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-8000,[0,3,3]%%}+%%{-36000,[0,3,2]%%}+%%{-36000,[0,3,1]%%
 %} / %

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 286

2.3.3254 Giac [F(-2)]

Exception generated.

$$\int \frac{(-7x + \frac{1}{9}e^{5+2x}x + e^5(24x - 10x^2 + x^3) + \frac{1}{3}e^x(x + x^2 + e^5(11x - 2x^2))) \log^2(x) + e^{\frac{4}{\log(x)}} \left(-\frac{4e^{5+x}}{3} + e^5 \left(\frac{1}{9}e^{5+2x}x + \frac{1}{3}e^{5+x}(10x - 2x^2) + e^5(25x - 10x^2 + x^3) \right) \log^2(x) \right)}{\left(\frac{1}{9}e^{5+2x}x + \frac{1}{3}e^{5+x}(10x - 2x^2) + e^5(25x - 10x^2 + x^3) \right) \log^2(x)}$$

= Exception raised: TypeError

[In] integrate((((-x*exp(5)*exp(-log(3)+x)+x*exp(5))*log(x)^2-4*exp(5)*exp(-log(3)+x)+(4*x-20)*exp(5))*exp(4/log(x))+(x*exp(5)*exp(-log(3)+x)^2+((-2*x^2+11*x)*exp(5)+x^2+x)*exp(-log(3)+x)+(x^3-10*x^2+24*x)*exp(5)-7*x)*log(x)^2)/(x*exp(5)*exp(-log(3)+x)^2+(-2*x^2+10*x)*exp(5)*exp(-log(3)+x)+(x^3-10*x^2+25*x)*exp(5))/log(x)^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-128,[0,6,2,0,0]%%}+%%{-256,[0,6,1,1,0]%%}+%%{768,[0,6,1,0,0]%%

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 315

2.3.3255 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3x-x^2+x^{-10+5x}+9x^2 \log(x)}{x}} \left(160x^2 - 160x^3 + 40x^4 + (180x^2 - 180x^3 + 45x^4) \log(x) + x^{-\frac{x}{-10+5x}} (-20 + 22x) \right)}{20x^2 - 20x^3 + 5x^4}$$

= Exception raised: TypeError

```
[In] integrate(((2*x*log(x)-6*x^2+22*x-20)*exp(-x*log(x)/(5*x-10)))+(45*x^4-180*x^3+180*x^2)*log(x)+40*x^4-160*x^3+160*x^2)*exp((exp(-x*log(x)/(5*x-10))+9*x^2*log(x)-x^2+3*x)/x)/(5*x^4-20*x^3+20*x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to rounding
error%%{-2880000, [1,8]%%}+%%{25920000, [1,7]%%} / %%{1600000, [0,6]%%} E
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 413

2.3.3256 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{-3x+(1-3x) \log(x)}{x^2 \log(x)}} \left(-3e^5 x - 6x^2 + (-3e^5 x - 6x^2) \log(x) - 2e^{\frac{-3x+(1-3x) \log(x)}{x^2 \log(x)}} x^3 \log^2(x) + (e^5(2-3x) + 4x) \right)}{(e^{10} x^3 + 4e^5 x^4 + 4x^5) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((-2*x^3*log(x)^2*exp(((1-3*x)*log(x)-3*x)/x^2/log(x)))+((2-3*x)*exp(5)-2*x^3-6*x^2+4*x)*log(x)^2+(-3*x*exp(5)-6*x^2)*log(x)-3*x*exp(5)-6*x^2)/(x^3*exp(5)^2+4*x^4*exp(5)+4*x^5)/log(x)^2/exp(((1-3*x)*log(x)-3*x)/x^2/log(x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to rounding
error%%{-13824, [0,25,0]%%}+%%{-48384, [0,24,1]%%}+%%{-72576, [0,23,2]%%}
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 433

2.3.3257 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{-11x-x^2+e^{x^2}(10+x)+e^{\frac{x}{2x}}(-e^{x^2}+x)}{-10+e^{\frac{x}{2x}}-x}} \left(220x + 40x^2 + 2x^3 + e^{\frac{x}{x}}(2x - 4e^{x^2}x^2) + e^{x^2}(-400x^2 - 80x^3 - 4x^4) + e^{200x + 2e^{\frac{x}{x}}x + 40x^2 + 2x^3 + e^{\frac{x}{2x}}(-40x - 4x^2)} \right)$$

= Exception raised: TypeError

```
[In] integrate((( -4*x^2*exp(x^2)+2*x)*exp(1/2*exp(x)/x)^2+((8*x^3+80*x^2)*exp(x^2)+(-1+x)*exp(x)-4*x^2-42*x)*exp(1/2*exp(x)/x)+(-4*x^4-80*x^3-400*x^2)*exp(x^2)+2*x^3+40*x^2+220*x)*exp((( -exp(x^2)+x)*exp(1/2*exp(x)/x)+(x+10)*exp(x^2)-x^2-11*x)/(exp(1/2*exp(x)/x)-x-10))/(2*x*exp(1/2*exp(x)/x)^2+(-4*x^2-40*x)*exp(1/2*exp(x)/x)+2*x^3+40*x^2+200*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-32, [0,8,9,6,25]%%}+%%{-1696, [0,8,9,6,24]%%}+%%{-35232, [0
,8,9,6
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 445

2.3.3258 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{41958+104976x+122472x^2+81648x^3+34020x^4+9072x^5+1512x^6+144x^7+6x^8}{19683x+52488x^2+61236x^3+40824x^4+17010x^5+4536x^6+756x^7+72x^8+3x^9+e^{2x}(6561x+17496x^2+20412x^3+13608x^4+5670x^5+1512x^6+252x^7+24x^8+x^9)}}{177147x^2 + 531441x^3 + 708588x^4 + 551124x^5 + 275562x^6 + 91854x^7 + 20412x^8 + 2916x^9 + 2}$$

= Exception raised: TypeError

```
[In] integrate((( -12*x^10-330*x^9-4050*x^8-29160*x^7-136080*x^6-428652*x^5-91854
0*x^4-1312200*x^3-1186164*x^2-629370*x-125874)*exp(x)^2-18*x^9-486*x^8-5832
```

```
*x^7-40824*x^6-183708*x^5-551124*x^4-1102248*x^3-1417176*x^2-1132866*x-3776
22)*exp((6*x^8+144*x^7+1512*x^6+9072*x^5+34020*x^4+81648*x^3+122472*x^2+104
976*x+41958)/((x^9+24*x^8+252*x^7+1512*x^6+5670*x^5+13608*x^4+20412*x^3+174
96*x^2+6561*x)*exp(x)^2+3*x^9+72*x^8+756*x^7+4536*x^6+17010*x^5+40824*x^4+6
1236*x^3+52488*x^2+19683*x))/((x^11+27*x^10+324*x^9+2268*x^8+10206*x^7+3061
8*x^6+61236*x^5+78732*x^4+59049*x^3+19683*x^2)*exp(x)^4+(6*x^11+162*x^10+19
44*x^9+13608*x^8+61236*x^7+183708*x^6+367416*x^5+472392*x^4+354294*x^3+1180
98*x^2)*exp(x)^2+9*x^11+243*x^10+2916*x^9+20412*x^8+91854*x^7+275562*x^6+55
1124*x^5+708588*x^4+531441*x^3+177147*x^2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
 ding error%%{-864, [1,61]%%}+%%{-140832, [1,60]%%}+%%{-11267640, [1,59]%%
 %}+%%

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 595

2.3.3259 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{9x+6x^2+x^3} + \frac{e^{5+x}(-6x-2x^2)(1+x \log(x))}{\log(x)} + \frac{e^{10+2x}x(1+x \log(x))^2}{\log^2(x)}}}{(-27x^2 - 27x^3 - 9x^4 - x^5) \log(x) + (-27x^3 - 27x^4 - 9x^5 - x^6) \log^2(x) + \frac{e^{15+3x}(1+x \log(x))^3(x^2 \log(x) + x^3 \log(x))}{\log^3(x)}}{(3+3x) \log(x)}$$

= Exception raised: TypeError

```
[In] integrate(((((-2*x^2-3*x)*log(x)^2+(-1-2*x)*log(x)+2)*exp(log((x*log(x)+1)/1
og(x))+5+x)+(3*x^2+3*x)*log(x)^2+(3*x+3)*log(x))*exp(1/(x*exp(log((x*log(x)
+1)/log(x))+5+x)^2+(-2*x^2-6*x)*exp(log((x*log(x)+1)/log(x))+5+x)+x^3+6*x^2
+9*x))/((x^3*log(x)^2+x^2*log(x))*exp(log((x*log(x)+1)/log(x))+5+x)^3+((-3*
x^4-9*x^3)*log(x)^2+(-3*x^3-9*x^2)*log(x))*exp(log((x*log(x)+1)/log(x))+5+x
)^2+((3*x^5+18*x^4+27*x^3)*log(x)^2+(3*x^4+18*x^3+27*x^2)*log(x))*exp(log((
x*log(x)+1)/log(x))+5+x)+(-x^6-9*x^5-27*x^4-27*x^3)*log(x)^2+(-x^5-9*x^4-27
*x^3-27*x^2)*log(x)),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Not invertible Error: Bad Argument Va
 lue

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 601

2.3.3260 Giac [F(-2)]

Exception generated.

$$\int \frac{(-8x^2 + 2x^3 - 2x^4) \log(5) \log\left(\frac{1}{4}(-4x + x^2 - x^3)\right) + (16 - 8x + 12x^2 + (-4x^2 + 2x^3 - 3x^4) \log(5)) \log}{(-16x + 4x^2 - 4x^3 + (4x^3 - x^4 + x^5) \log(5)) \log}$$

= Exception raised: TypeError

```
[In] integrate(((2*x^4-2*x^3+8*x^2)*log(5)*log(-1/4*x^3+1/4*x^2-x)*log(log(-1/4*x^3+1/4*x^2-x)))+((-3*x^4+2*x^3-4*x^2)*log(5)+12*x^2-8*x+16)*log(x^2*log(5)-4)+(-2*x^4+2*x^3-8*x^2)*log(5)*log(-1/4*x^3+1/4*x^2-x))/((x^5-x^4+4*x^3)*log(5)-4*x^3+4*x^2-16*x)/log(-1/4*x^3+1/4*x^2-x)/log(x^2*log(5)-4)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error index.cc index_gcd Error: Bad Argument ValueError index.cc index_gcd Error: Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 700

2.3.3261 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{40x+9e^x x+9x^2-20 \log(2)}{e^x x+x^2}} (-40x^2 + 40x \log(2) + e^x (-40x^2 + (20 + 20x) \log(2)))}{e^{2x} x^2 + 2e^x x^3 + x^4} dx$$

= Exception raised: TypeError

```
[In] integrate((((20*x+20)*log(2)-40*x^2)*exp(x)+40*x*log(2)-40*x^2)*exp((9*exp(x)*x-20*log(2)+9*x^2+40*x)/(exp(x)*x+x^2)))/(exp(x)^2*x^2+2*exp(x)*x^3+x^4), x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{640, [1, 15, 0]%%}+%%{-1600, [1, 14, 1]%%}+%%{-1920, [1, 14, 0]%%}
 }+%%{

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 716

2.3.3262 Giac [F(-2)]

Exception generated.

$$\int \frac{(50 - 10e^x - 10x) \log^2(-5 + e^x + x) + e^{\frac{2x-2x^2}{\log(-5+e^x+x)}} (-4x^3 + 8x^4 - 4x^5 + e^x(-4x^3 + 8x^4 - 4x^5) + (-2(-125x^2 + 25e^xx^2 + 25x^3) \log^2(-5 + e^x + x) + e^{\frac{2x-2x^2}{\log(-5+e^x+x)}} (50x^3 - 60x^4 + 10x^5 + e^x(-$$

= Exception raised: TypeError

[In] integrate(((((-6*x^2+4*x)*exp(x)-6*x^3+34*x^2-20*x)*log(exp(x)+x-5)^2+((8*x^4-12*x^3+4*x^2)*exp(x)+8*x^5-52*x^4+64*x^3-20*x^2)*log(exp(x)+x-5)+(-4*x^5+8*x^4-4*x^3)*exp(x)-4*x^5+8*x^4-4*x^3)*exp((-2*x^2+2*x)/log(exp(x)+x-5))+(-10*exp(x)-10*x+50)*log(exp(x)+x-5)^2)/(((x^6-2*x^5+x^4)*exp(x)+x^7-7*x^6+11*x^5-5*x^4)*log(exp(x)+x-5)^2*exp((-2*x^2+2*x)/log(exp(x)+x-5))^2+((10*x^4-10*x^3)*exp(x)+10*x^5-60*x^4+50*x^3)*log(exp(x)+x-5)^2*exp((-2*x^2+2*x)/log(exp(x)+x-5))+25*exp(x)*x^2+25*x^3-125*x^2)*log(exp(x)+x-5)^2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{8, [0, 10, 17]%%}+%%{-96, [0, 10, 16]%%}+%%{448, [0, 10, 15]%%}+%%{-11

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 899

2.3.3263 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{12+e^{2x-2e^x \log(\frac{13}{4})+\log^2(\frac{13}{4})}{(3-3x)-11x}}}{e^{-4+e^{2x-2e^x \log(\frac{13}{4})+\log^2(\frac{13}{4})}(-1+x)+4x}} \left(-4 + e^{e^{2x-2e^x \log(\frac{13}{4})+\log^2(\frac{13}{4})}} (-1 + e^{2x(2x-2x^2)} + e^x(-2x+2x^2)) \log \right. \\ \left. 16 - 32x + 16x^2 + e^{2e^{2x-4e^x \log(\frac{13}{4})+2\log^2(\frac{13}{4})}} (1 - 2x + x^2) + e^{e^{2x-2e^x \log(\frac{13}{4})+\log^2(\frac{13}{4})}} (8 - 16x + 8x^2) \right)$$

= Exception raised: TypeError

```
[In] integrate(((((-2*x^2+2*x)*exp(x)^2+(2*x^2-2*x)*log(13/4)*exp(x)-1)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)-4)*exp((( -3*x+3)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)-11*x+12)/((-1+x)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)+4*x-4))/((x^2-2*x+1)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)+(8*x^2-16*x+8)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)+16*x^2-32*x+16),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{524288, [0,8,12,22,1,1,8]%%}+%%{-7864320, [0,8,12,21,1,1,8]%%
}%+%%
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1040

2.3.3264 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{8-6x+5x^2-x^3-x^4+e^{4e^{x^2}}x(4-5x+x^2+x^3)}{e^{4e^{x^2}x(-4+x)+4x-x^2}}}{\left(-32 + 16x + 14x^2 - 8x^3 - 11x^4 + 2x^5 + e^{8e^{x^2}}x(16 - 8x - 11x^2 + 2x^3) \right)} \\ 16x^2 - 8x^3 + x^4 + e^{8e^{x^2}}x(16 - 8x + x^2) + e^4$$

= Exception raised: TypeError

```
[In] integrate(((2*x^3-11*x^2-8*x+16)*exp(4*exp(x^2)*x)^2+((16*x^4-128*x^3+264*x^2-64*x+128)*exp(x^2)-4*x^4+22*x^3+16*x^2-32*x)*exp(4*exp(x^2)*x)+2*x^5-11*x^4-8*x^3+14*x^2+16*x-32)*exp(((x^3+x^2-5*x+4)*exp(4*exp(x^2)*x)-x^4-x^3+5*x^2-6*x+8)/((x-4)*exp(4*exp(x^2)*x)-x^2+4*x))/((x^2-8*x+16)*exp(4*exp(x^2)*
```

```
x^2+(-2*x^3+16*x^2-32*x)*exp(4*exp(x^2)*x)+x^4-8*x^3+16*x^2),x, algorithm=
"giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%>{4194304,[0,6,35]%%}+%%{-257949696,[0,6,34]%%}+%%{73945579
52,[0,
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1125

2.3.3265 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1+x \log(x)}{(-25x+5e^x x-5x^2) \log(x)}} (5 - e^x + x + (5 + e^x(-1-x) + 2x) \log(x) + (x^2 - e^x - 5) \log(x) + 5x \log(x))}{e^{\frac{1+x \log(x)}{(-25x+5e^x x-5x^2) \log(x)}} (125x^2 + 5e^{2x}x^2 + 50x^3 + 5x^4 + e^x(-50x^2 - 10x^3)) \log^2(x) + (-250x^2 - 10e^{2x}x^2 - 100x^3 - 250x^2) \log(x)^2}, x$$

= Exception raised: TypeError

```
[In] integrate((( -exp(x)*x^2+x^2)*log(x)^2+((-1-x)*exp(x)+5+2*x)*log(x)+x-exp(x)
+5)*exp((x*log(x)+1)/(5*exp(x)*x-5*x^2-25*x)/log(x)))/((5*exp(x)^2*x^2+(-10*
x^3-50*x^2)*exp(x)+5*x^4+50*x^3+125*x^2)*log(x)^2*exp((x*log(x)+1)/(5*exp(x)
)*x-5*x^2-25*x)/log(x))+(-10*exp(x)^2*x^2+(20*x^3+100*x^2)*exp(x)-10*x^4-10
0*x^3-250*x^2)*log(x)^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:exp(sageVARx)^2=exp(2*sageVARx)exp(sa
geVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=exp
(2*sag
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1158

2.3.3266 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{4}(15-4e^x+20x-5\log(3))}(-e^x x \log(4) + (-1 + 5x) \log(4))}{x^2} dx$$

= Exception raised: TypeError

```
[In] integrate((-2*x*log(2)*exp(x)+2*(5*x-1)*log(2))/x^2/exp(exp(x)+5/4*log(3)-5*x-15/4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1392

2.3.3267 Giac [F(-2)]

Exception generated.

$$\int \frac{68x^4 - 68x^5 + 17x^6 + e^{-2x^2+2x^3}(68 - 68x + 17x^2) + e^{-\frac{x}{-2+x}}(-128x + 160x^2 - 32x^3) + e^{-x^2+x^3}(-136x^4 - 68x^5 + 17x^6)}{64x^4 - 64x^5 + 16x^6 + e^{-2x^2+2x^3}(64 - 64x + 16x^2) + e^{-x^2+x^3}(-136x^4 - 68x^5 + 17x^6)} dx$$

= Exception raised: TypeError

```
[In] integrate(((17*x^2-68*x+68)*exp(x^3-x^2)^2+((48*x^4-224*x^3+320*x^2-128*x-32)*exp(-x/(-2+x))-34*x^4+136*x^3-136*x^2)*exp(x^3-x^2)+(-32*x^3+160*x^2-128*x)*exp(-x/(-2+x))+17*x^6-68*x^5+68*x^4)/((16*x^2-64*x+64)*exp(x^3-x^2)^2+(-32*x^4+128*x^3-128*x^2)*exp(x^3-x^2)+16*x^6-64*x^5+64*x^4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{864, [0, 15]%%}+%%{-10368, [0, 14]%%}+%%{52992, [0, 13]%%}+%%
{-1511
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1400

2.3.3268 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2}{100x+10e^{1+e^{e^x}}x}} \left(-10 - 1500x - 15e^{2+2e^{e^x}}x + e^{1+e^{e^x}}(-1 - 300x - e^{e^x+x}x) \right)}{500x^5 + 100e^{1+e^{e^x}}x^5 + 5e^{2+2e^{e^x}}x^5} dx$$

= Exception raised: TypeError

```
[In] integrate((-15*x*exp(exp(exp(x))+1)^2+(-x*exp(x)*exp(exp(x))-300*x-1)*exp(exp(exp(x))+1)-1500*x-10)*exp(1/(10*x*exp(exp(exp(x))+1)+100*x))^2/(5*x^5*exp(exp(exp(x))+1)^2+100*x^5*exp(exp(exp(x))+1)+500*x^5),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{468750000000,[0,8,6,6,15,8]}%%{3125000000,[0,8,6,6,14,8]}%%}
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1505

2.3.3269 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4+3x^2-x^3}{12x^2+2e^{2x}x^2}} (-48 - 6x^3 + e^{2x}(-8 - 8x - 7x^3 + 2x^4))}{72x^3 + 24e^{2x}x^3 + 2e^{4x}x^3} dx$$

= Exception raised: TypeError

```
[In] integrate(((2*x^4-7*x^3-8*x-8)*exp(x)^2-6*x^3-48)*exp((-x^3+3*x^2+4)/(2*exp(x)^2*x^2+12*x^2))/(2*x^3*exp(x)^4+24*exp(x)^2*x^3+72*x^3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{-1152,[1,23]}%%{18432,[1,22]}%%{-117792,[1,21]}%%{39
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1580

2.3.3270 Giac [F(-2)]

Exception generated.

$$\int -\frac{24e^{\frac{1}{5}(e^{32}-2e^{32}\log(2)+e^{32}\log^2(2))}}{64+16e^{\frac{1}{5}(e^{32}-2e^{32}\log(2)+e^{32}\log^2(2))}x+e^{\frac{2}{5}(e^{32}-2e^{32}\log(2)+e^{32}\log^2(2))}x^2} dx$$

= Exception raised: NotImplementedError

```
[In] integrate(-24*exp(1/5*exp(16)^2*log(2)^2-2/5*exp(16)^2*log(2)+1/5*exp(16)^2
)/(x^2*exp(1/5*exp(16)^2*log(2)^2-2/5*exp(16)^2*log(2)+1/5*exp(16)^2)+16*
x*exp(1/5*exp(16)^2*log(2)^2-2/5*exp(16)^2*log(2)+1/5*exp(16)^2)+64),x, alg
orithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -24*e
xp(exp(32)*ln(2)^2/5-exp(32)*ln(2)*2/5+exp(32)/5)*2*1/16/sqrt(-exp(1/5*(exp
(32)*ln(2)^2-2*exp(32)*ln(2)+exp(32)))^2+exp(1/5*(2*exp(32)*ln(2)^2-4*exp(3
2)*ln(2)+2*exp(3
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1590

2.3.3271 Giac [F(-2)]

Exception generated.

$$\int \frac{-54x - 6e^6x + 162x^2 - 108x^3 + e^3(-36x + 54x^2) + 2^{60/x}x^{60/x}(2x - 6x^2 + 4x^3) + 2^{20/x}x^{20/x}(54x - 16$$

```
[In] integrate(((4*x^3-6*x^2+2*x)*exp(20*log(2*x)/x)^3+((40*x-40)*exp(3)*log(2*x
)+(6*x^2-44*x+40)*exp(3)-36*x^3+54*x^2-18*x)*exp(20*log(2*x)/x)^2+((40*exp(
3)^2+(-120*x+120)*exp(3))*log(2*x)+(2*x-40)*exp(3)^2+(-36*x^2+144*x-120)*ex
p(3)+108*x^3-162*x^2+54*x)*exp(20*log(2*x)/x)-6*x*exp(3)^2+(54*x^2-36*x)*ex
p(3)-108*x^3+162*x^2-54*x)/(exp(20*log(2*x)/x)^3-9*exp(20*log(2*x)/x)^2+27*
exp(20*log(2*x)/x)-27),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{265420800000, [1, 10, 15, 0]}%%+%%{-3981312000000, [1, 10, 14, 0]}%
%+%%
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1628

2.3.3272 Giac [F(-2)]

Exception generated.

$$\int \frac{-64 + 32x + 152x^2 + 12x^3 + 47x^4 - 24x^5 + 3x^6}{(-64x + 48x^3 + 8x^4 + 15x^5 - 8x^6 + x^7 + (64 + 16x^2 - 8x^3 + x^4) \log\left(\frac{1}{16}(320 + 80x^2 - 40x^3 + 5x^4)\right))} dx$$

= Exception raised: TypeError

```
[In] integrate((3*x^6-24*x^5+47*x^4+12*x^3+152*x^2+32*x-64)/((x^4-8*x^3+16*x^2+64)*log(5/16*x^4-5/2*x^3+5*x^2+20)+x^7-8*x^6+15*x^5+8*x^4+48*x^3-64*x)/log(-log(5/16*x^4-5/2*x^3+5*x^2+20)-x^3+x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{poly1[3046848152267544387829649132444971136342526050024030208,-1
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1802

2.3.3273 Giac [F(-2)]

Exception generated.

$$\int \frac{2e^{16} + 2e^{2e^x} + 8e^{12x} + 2x^2 + 4x^3 + 2x^4 + e^{e^x}(-4e^8 - 4x - 8e^4x - 4x^2) + e^8(4x + 12x^2) + e^4(8x^2 + 8x)}{dx}$$

= Exception raised: TypeError

```
[In] integrate(((2*x*exp(x)*log(16*x^2)*exp(exp(x))^2+((-2*x*exp(4)^2-4*x^2*exp(4)-2*x^3-2*x^2)*exp(x)-4*x*exp(4)-4*x^2-2*x)*log(16*x^2)*exp(exp(x))+4*x*exp(4)^3+(12*x^2+2*x)*exp(4)^2+(12*x^3+8*x^2)*exp(4)+4*x^4+6*x^3+2*x^2)*log(16*x^2))*log(1/4*log(16*x^2))+2*exp(exp(x))^2+(-4*exp(4)^2-8*x*exp(4)-4*x^2-4*x)*exp(exp(x))+2*exp(4)^4+8*x*exp(4)^3+(12*x^2+4*x)*exp(4)^2+(8*x^3+8*x^2)*exp(4)+2*x^4+4*x^3+2*x^2)/x/log(16*x^2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:ln of unsigned or minus infinity Error
 r: Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2383

2.3.3274 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-4x/9}(e^{4x/9}(e^{25x} - 5e^{20x^2} + 10e^{15x^3} - 10e^{10x^4} + 5e^5x^5 - x^6) \log(x) + (324e^5 - 324x) \log^3(\log(x)) + (e^{25x} - 5e^{20x^2} + 10e^{15x^3} - 10e^{10x^4} + 5e^5x^5 - x^6) \log(x))}{(e^{25x} - 5e^{20x^2} + 10e^{15x^3} - 10e^{10x^4} + 5e^5x^5 - x^6) \log(x)}$$

[In] integrate(((−36*x*exp(5)+36*x^2+324*x)*log(x)*log(log(x))^4+(324*exp(5)−324*x)*log(log(x))^3+(x*exp(5)^5−5*x^2*exp(5)^4+10*x^3*exp(5)^3−10*x^4*exp(5)^2+5*x^5*exp(5)−x^6)*exp(1/9*x)^4*log(x))/(x*exp(5)^5−5*x^2*exp(5)^4+10*x^3*exp(5)^3−10*x^4*exp(5)^2+5*x^5*exp(5)−x^6)/exp(1/9*x)^4/log(x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Polynomial exponent overflow. Error:
 Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2388

2.3.3275 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{x^2+x \log(x)}{-x+\log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2) \log(x)+\log^2(x)}{e^6x^2}\right)}} \left(-2x + e^3(3x^2 - x^4) + (-2 + x - x^2 - 2e^3x^2) \log(x) + 2 \log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2) \log(x)+\log^2(x)}{e^6x^2}\right) \right) / \left(e^3(-3x^3+x^4) + x^2 \log(x) + (e^3(6x^2-2x^3) - 2x \log(x)) \log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2) \log(x)+\log^2(x)}{e^6x^2}\right) \right)$$

= Exception raised: TypeError

[In] integrate(((log(x)^2+((x^2−3*x)*exp(3)+2*x+1)*log(x)+(2*x^3−5*x^2−3*x)*exp(3))*log((log(x)^2+(2*x^2−6*x)*exp(3)*log(x)+(x^4−6*x^3+9*x^2)*exp(3)^2)/x^2

```

/exp(3)^2)+2*log(x)^2+(-2*x^2*exp(3)-x^2+x-2)*log(x)+(-x^4+3*x^2)*exp(3)-2*
x)*exp((x*log(x)+x^2)/(log((log(x)^2+(2*x^2-6*x)*exp(3)*log(x)+(x^4-6*x^3+9
*x^2)*exp(3)^2)/x^2/exp(3)^2)-x))/((log(x)+(x^2-3*x)*exp(3))*log((log(x)^2+
(2*x^2-6*x)*exp(3)*log(x)+(x^4-6*x^3+9*x^2)*exp(3)^2)/x^2/exp(3)^2)^2+(-2*x
*log(x)+(-2*x^3+6*x^2)*exp(3))*log((log(x)^2+(2*x^2-6*x)*exp(3)*log(x)+(x^4
-6*x^3+9*x^2)*exp(3)^2)/x^2/exp(3)^2)+x^2*log(x)+(x^4-3*x^3)*exp(3)),x, alg
orithm="giac")

```

```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1,[0,11,8,8,0]%%}+%%{5,[0,11,8,7,0]%%}+%%{-40,[0,11,8,5,0
]%%}+

```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2405

2.3.3276 Giac [**F(-2)**]

Exception generated.

$$\int \frac{e^{\frac{4e^{e^2}}{\log\left(\frac{27+12x}{x}\right)}} \left(36e^{e^2} \log(x) + (9+4x) \log^2\left(\frac{27+12x}{x}\right)\right)}{(9x+4x^2) \log^2\left(\frac{27+12x}{x}\right)} dx = \text{Exception raised: TypeError}$$

```

[In] integrate((9*exp(2*log(2)+exp(2))*log(x)+(4*x+9)*log((12*x+27)/x)^2)*exp(ex
p(2*log(2)+exp(2))/log((12*x+27)/x))/(4*x^2+9*x)/log((12*x+27)/x)^2,x, algo
rithm="giac")

```

```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{186624,[0,0,1,3]%%}+%%{419904,[0,0,0,3]%%} / %%{186624,[0
,0,2,3

```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2555

2.3.3277 Giac [F(-2)]

Exception generated.

$$\int \frac{20e^{2x} + 40e^x x + 20x^2 + e^{\frac{9x+8x^3+e^x(4+8x^2)}{10e^x+10x}} (32e^{2x}x + 32x^3 + e^x(10 - 10x + 64x^2))}{5e^{2x} + 10e^x x + 5x^2} dx$$

= Exception raised: TypeError

```
[In] integrate(((32*x*exp(x)^2+(64*x^2-10*x+10)*exp(x)+32*x^3)*exp(((8*x^2+4)*exp(x)+8*x^3+9*x)/(10*exp(x)+10*x))+20*exp(x)^2+40*exp(x)*x+20*x^2)/(5*exp(x)^2+10*exp(x)*x+5*x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{-80000000,[1,12]%%}+%%{220000000,[1,11]%%}+%%{-80000000,[1,10]%
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2601

2.3.3278 Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + 2x + e^{-2+e^4}(-20 + 40x) + e^{-4+2e^4}(-158 + 313x + 4x^2) + e^{-6+3e^4}(-580 + 1130x + 40x^2) + e^{-8+4e^4}(841x + 20x^2)}{x + 20e^{-2+e^4}x + e^{-4+2e^4}(158x + 2x^2) + e^{-6+3e^4}(580x + 20x^2) + e^{-8+4e^4}(841x + 20x^2)}$$

= Exception raised: NotImplementedError

```
[In] integrate(((2*x^3+115*x^2+1595*x-841)*exp(exp(4)-2)^4+(40*x^2+1130*x-580)*exp(exp(4)-2)^3+(4*x^2+313*x-158)*exp(exp(4)-2)^2+(40*x-20)*exp(exp(4)-2)+2*x-1)/((x^3+58*x^2+841*x)*exp(exp(4)-2)^4+(20*x^2+580*x)*exp(exp(4)-2)^3+(2*x^2+158*x)*exp(exp(4)-2)^2+20*x*exp(exp(4)-2)+x),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -ln(abs(sageVARx))+(-58*exp(4*exp(4)-8)-20*exp(3*exp(4)-6)-2*exp(2*exp(4)-4))*1/2/sqrt(-exp(2*exp(4)-4)^2-20*exp(2*exp(4)-4)*exp(3*exp(4)-6)+100*exp(2*exp(4)-4)*exp(4*exp(
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2633

2.3.3279 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4-4x-3x^2+2x^3+x^4}{x-2e^{8x}+e^{2e^{8x}}}} (4+3x^2-4x^3-3x^4+e^{e^8x}(-4-3x^2+4x^3+3x^4+e^8(-8x+8x^2+6x^3-4x^4-2x^5)))}{-x^2+3e^{e^8x}x^2-3e^{2e^8x}x^2+e^{3e^8x}x^2} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-2*x^5-4*x^4+6*x^3+8*x^2-8*x)*exp(4)^2+3*x^4+4*x^3-3*x^2-4)*exp(x*exp(4)^2)-3*x^4-4*x^3+3*x^2+4)*exp((x^4+2*x^3-3*x^2-4*x+4)/(x*exp(x*exp(4)^2)^2-2*x*exp(x*exp(4)^2)+x))/(x^2*exp(x*exp(4)^2)^3-3*x^2*exp(x*exp(4)^2)^2+3*x^2*exp(x*exp(4)^2)-x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{-96, [2, 24, 6]%%}+%%{-704, [2, 23, 6]%%}+%%{288, [2, 23, 5]%%}+%%{-96
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2912

2.3.3280 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1+x-3x^3-6x^4-3x^5}{5e^x x^2-5x^3}} (3x+2x^2+6x^5+6x^6+e^x(-2-2x-x^2-3x^3-9x^4-3x^5+3x^6))}{5e^{2x}x^3-10e^x x^4+5x^5} dx$$

= Exception raised: TypeError

```
[In] integrate(((3*x^6-3*x^5-9*x^4-3*x^3-x^2-2*x-2)*exp(x)+6*x^6+6*x^5+2*x^2+3*x)*exp((-3*x^5-6*x^4-3*x^3+x+1)/(5*exp(x)*x^2-5*x^3))/(5*exp(x)^2*x^3-10*exp(x)*x^4+5*x^5),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{6075, [1, 36]%%}+%%{6075, [1, 35]%%}+%%{-66825, [1, 34]%%}+%%{-1154
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3034

2.3.3281 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3-e^x-5x+x^2}{x}}(6-5x-x^2-x^3+e^x(-2+x+x^2)+(-12+e^x(4-4x)+4x^2)\log(x^2))}{4x^2+4x^3+x^4+(-16x^2-8x^3)\log(x^2)+16x^2\log^2(x^2)} dx$$

= Exception raised: TypeError

```
[In] integrate((((4-4*x)*exp(x)+4*x^2-12)*log(x^2)+(x^2+x-2)*exp(x)-x^3-x^2-5*x+
6)*exp((-exp(x)+x^2-5*x+3)/x)/(16*x^2*log(x^2)^2+(-8*x^3-16*x^2)*log(x^2)+x
^4+4*x^3+4*x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-4, [0,1,9]%%}+%%{68, [0,1,8]%%}+%%{-320, [0,1,7]%%}+%%{25
6, [0,1
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3096

2.3.3282 Giac [F(-2)]

Exception generated.

$$\int \frac{-1000 - 5000x - 6200x^2 - 2900}{256x^3 + 448x^4 + 288x^5 + 144x^6 + 104x^7 + 48x^8 + 8x^9 + (-192x^3 - 240x^4 - 96x^5 - 60x^6 - 48x^7 - 12x^8 - 8x^9)}$$

= Exception raised: TypeError

```
[In] integrate((((-50*x^4-50*x^2-200*x)*log(x/(x^3+x+4))^2+((100*x^4+100*x^2+400*
x)*log(5)-300*x^5-300*x^4-350*x^3-1600*x^2-1850*x-200)*log(x/(x^3+x+4))+(-5
0*x^4-50*x^2-200*x)*log(5)^2+(300*x^5+300*x^4+350*x^3+1600*x^2+1850*x+200)*
log(5)-400*x^6-1000*x^5-1000*x^4-2900*x^3-6200*x^2-5000*x-1000)/((x^6+x^4+4
*x^3)*log(x/(x^3+x+4))^3+((-3*x^6-3*x^4-12*x^3)*log(5)+6*x^7+12*x^6+6*x^5+3
6*x^4+48*x^3)*log(x/(x^3+x+4))^2+((3*x^6+3*x^4+12*x^3)*log(5)^2+(-12*x^7-24
*x^6-12*x^5-72*x^4-96*x^3)*log(5)+12*x^8+48*x^7+60*x^6+96*x^5+240*x^4+192*x
^3)*log(x/(x^3+x+4))+(-x^6-x^4-4*x^3)*log(5)^3+(6*x^7+12*x^6+6*x^5+36*x^4+4
8*x^3)*log(5)^2+(-12*x^8-48*x^7-60*x^6-96*x^5-240*x^4-192*x^3)*log(5)+8*x^9
+48*x^8+104*x^7+144*x^6+288*x^5+448*x^4+256*x^3),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
 dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3124

2.3.3283 Giac [F(-2)]

Exception generated.

$$\int \frac{(-32 + 2x^2 - 16x^3 + 24x^4) \log\left(\frac{-16 - x^2 + 4x^3 - 4x^4}{x}\right) + (-16 - x^2 + 4x^3 - 4x^4) \log^2\left(\frac{-16 - x^2 + 4x^3 - 4x^4}{x}\right)}{64x^2 + 4x^4 - 16x^5 + 16x^6} dx$$

= Exception raised: TypeError

[In] integrate(((−4*x^4+4*x^3−x^2−16)*log((−4*x^4+4*x^3−x^2−16)/x)^2+(24*x^4−16*x^3+2*x^2−32)*log((−4*x^4+4*x^3−x^2−16)/x))/(16*x^6−16*x^5+4*x^4+64*x^2),x,
 algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
 ding error%%{poly1[4645089346227255570024772312188510155765170031139394
 747419

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3141

2.3.3284 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{5+x} \frac{e^{5+x} (244 - 40x + 4x^2)}{36x + 9e^{2x}x + 36x^2} (-976 - 976x + 992x^2 - 144x^3 + 16x^4 + e^{2x}(-244 - 244x + 44x^2 - 4x^3))}{144x^2 + 9e^{4x}x^2 + 288x^3 + 144x^4 + e^{2x}(72x^2 + 72x^3)} dx$$

= Exception raised: TypeError

[In] integrate(((−4*x^3+44*x^2−244*x−244)*exp(x)^2+16*x^4−144*x^3+992*x^2−976*x−
 976)*exp(5+x)*exp((4*x^2−40*x+244)*exp(5+x)/(9*x*exp(x)^2+36*x^2+36*x))/(9*

```
x^2*exp(x)^4+(72*x^3+72*x^2)*exp(x)^2+144*x^4+288*x^3+144*x^2),x, algorithm
="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%>{3962711310336,[0,19,36,2]%%}+%%{-974826982342656,[0,19,35,2
]%%}+
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3180

2.3.3285 Giac [F(-2)]

Exception generated.

$$\int \frac{(-18x + 2x^3) \log(5) + (-18 - 6x + (-6x^2 - 2x^3) \log(5)) \log\left(\frac{3+x}{1}\right)}{(-81 + 81x - 27x^2 + 3x^3 + (-27x^2 + 27x^3 - 9x^4 + x^5) \log(5)) \log\left(\frac{3+x^2 \log(5)}{\log(5)}\right) \log\left(\frac{\log\left(\frac{3+x^2 \log(5)}{\log(5)}\right)}{9-6x+x^2}\right)} +$$

= Exception raised: TypeError

```
[In] integrate((((-x^3+3*x^2)*log(5)-3*x+9)*log((x^2*log(5)+3)/log(5))*log(log((
x^2*log(5)+3)/log(5))/(x^2-6*x+9))*log(log(log((x^2*log(5)+3)/log(5))/(x^2-
6*x+9)))+((-6*x^3+18*x^2)*log(5)-18*x+54)*log((x^2*log(5)+3)/log(5))*log(lo
g((x^2*log(5)+3)/log(5))/(x^2-6*x+9))+((-2*x^3-6*x^2)*log(5)-6*x-18)*log((x
^2*log(5)+3)/log(5))+((2*x^3-18*x)*log(5))/(((x^3-3*x^2)*log(5)+3*x-9)*log((
x^2*log(5)+3)/log(5))*log(log((x^2*log(5)+3)/log(5))/(x^2-6*x+9))*log(log(1
og((x^2*log(5)+3)/log(5))/(x^2-6*x+9)))^2+((-2*x^4+12*x^3-18*x^2)*log(5)-6*
x^2+36*x-54)*log((x^2*log(5)+3)/log(5))*log(log((x^2*log(5)+3)/log(5))/(x^2
-6*x+9))*log(log(log((x^2*log(5)+3)/log(5))/(x^2-6*x+9)))+((x^5-9*x^4+27*x^
3-27*x^2)*log(5)+3*x^3-27*x^2+81*x-81)*log((x^2*log(5)+3)/log(5))*log(log((
x^2*log(5)+3)/log(5))/(x^2-6*x+9))),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT>Error index.cc index_gcd Error: Bad A
rgument ValueError index.cc index_gcd Error: Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3188

2.3.3286 Giac [F(-2)]

Exception generated.

$$\int \frac{(4 - 4e^4 + e^8) \log^2(x) + (-4 + 2e^4) \log^2(x) \log(4x^2) + \log^2(x) \log^2(4x^2) + e^{\frac{4}{-2+e^4+\log(4x^2)}} (4 - 4e^4 + e^8)}{(4 - 4e^4 + e^8) \log^2(x) + (-4 + 2e^4) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((((1-log(x))*log(4*x^2)^2+((-2*exp(4)+4)*log(x)+2*exp(4)-4)*log(4*x^2)+(-exp(4)^2+4*exp(4)+4)*log(x)+exp(4)^2-4*exp(4)+4)*exp(4/(log(4*x^2)+exp(4)-2))+log(x)^2*log(4*x^2)^2+(2*exp(4)-4)*log(x)^2*log(4*x^2)+(exp(4)^2-4*exp(4)+4)*log(x)^2)/(log(x)^2*log(4*x^2)^2+(2*exp(4)-4)*log(x)^2*log(4*x^2)+(exp(4)^2-4*exp(4)+4)*log(x)^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-4194304, [1, 7, 3, 0, 1]%%}+%%{-4194304, [1, 7, 2, 1, 1]%%}+%%{251
65824,
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3383

2.3.3287 Giac [F(-2)]

Exception generated.

$$\int \frac{9e^{2e} + 15e^e x^2 + 2x^4}{9e^{2e} + 6e^e x^2 + x^4} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((9*exp(exp(1))^2+15*x^2*exp(exp(1))+2*x^4)/(9*exp(exp(1))^2+6*x^2*exp(exp(1))+x^4),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: (((9*exp(2*exp(1)))^(1/4))^3*(sqrt((1+sin((-i)*ln(i*exp(exp(1))/exp(2*exp(1)/2)+sqrt(1-exp(exp(1))/exp(2*exp(1)/2)*exp(exp(1))/exp(2*exp(1)/2)))))/2))^3*sqrt(-6*exp(exp(1))
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3384

2.3.3288 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x^2}{9+e^{2e^{-x+x^2}\log(x)}x-6x^2+x^4+e^{e^{-x+x^2}\log(x)}x(6-2x^2)}} \left(e^{x-x^2\log(x)}(6x+2x^3) + e^{e^{-x+x^2}\log(x)}x \left(2e^{x-x^2\log(x)}x - 2x \right) \right)}{e^{x+3e^{-x+x^2}\log(x)}x-x^2\log(x) + e^{x+2e^{-x+x^2}\log(x)}x-x^2\log(x) (9-3x^2) + e^{x+e^{-x+x^2}\log(x)}x-x^2\log(x) (27-18x^2+3x^4)}$$

= Exception raised: AttributeError

```
[In] integrate(((2*x*exp(-x^2*log(x)+x)-4*x^4*log(x)-2*x^4+2*x^3-2*x^2)*exp(x/exp(-x^2*log(x)+x)))+(2*x^3+6*x)*exp(-x^2*log(x)+x))*exp(x^2/(exp(x/exp(-x^2*log(x)+x))^2+(-2*x^2+6)*exp(x/exp(-x^2*log(x)+x))+x^4-6*x^2+9))/(exp(-x^2*log(x)+x)*exp(x/exp(-x^2*log(x)+x))^3+(-3*x^2+9)*exp(-x^2*log(x)+x)*exp(x/exp(-x^2*log(x)+x))^2+(3*x^4-18*x^2+27)*exp(-x^2*log(x)+x)*exp(x/exp(-x^2*log(x)+x)))+(-x^6+9*x^4-27*x^2+27)*exp(-x^2*log(x)+x)),x, algorithm="giac")
```

```
[Out] Exception raised: AttributeError >> type
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3640

2.3.3289 Giac [F(-2)]

Exception generated.

$$\int \frac{-4x - 4e^x x^2 - 8x^3 + (4 + 4e^x x + 8x^2) \log(x) + (e^x(2 - 2x) + 2x^2 - 2x^3 + (2 - 2x) \log(x)) \log(e^x + x)}{(-e^x x^2 - x^4 + (e^x x - x^2 + x^3) \log(x) + x \log^2(x)) \log(e^x + x^2 + \log(x)) \log(\log(e^x + x))}$$

= Exception raised: TypeError

```
[In] integrate((((2-2*x)*log(x)+(2-2*x)*exp(x)-2*x^3+2*x^2)*log(log(x)+x^2+exp(x))*log(log(log(x)+x^2+exp(x)))+(4*exp(x)*x+8*x^2+4)*log(x)-4*exp(x)*x^2-8*x^3-4*x)/(x*log(x)^2+(exp(x)*x+x^3-x^2)*log(x)-exp(x)*x^2-x^4)/log(log(x)+x^2+exp(x))/log(log(log(x)+x^2+exp(x))),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Sign error %%%{ln(w),0%%}%Sign error
%%%{ln(w),0%%}%Done
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3683

2.3.3290 Giac [F(-2)]

Exception generated.

$$\int \frac{(-3x + 6x^2 - x^3 + 2x^4 + (-5x^3 + 10x^4) \log(4)) \log(-3 - x^2 - 5x^2 \log(4)) + \log(5 - x + x^2) (-10x^2 - (15 - 3x + 8x^2 - x^3 + x^4 + \dots))}{(15 - 3x + 8x^2 - x^3 + x^4 + \dots)}$$

= Exception raised: TypeError

```
[In] integrate((((2*(5*x^4-5*x^3+25*x^2)*log(2)+x^4-x^3+8*x^2-3*x+15)*log(-10*x^2*log(2)-x^2-3)+2*(-10*x^4+10*x^3-50*x^2)*log(2)-2*x^4+2*x^3-10*x^2)*log(x^2-x+5)+(2*(10*x^4-5*x^3)*log(2)+2*x^4-x^3+6*x^2-3*x)*log(-10*x^2*log(2)-x^2-3)))/(2*(5*x^4-5*x^3+25*x^2)*log(2)+x^4-x^3+8*x^2-3*x+15)/log(-10*x^2*log(2)-x^2-3)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3880

2.3.3291 Giac [F(-2)]

Exception generated.

$$\int \frac{-4e^{10x} - 80e^{8x}x - 640e^{6x}x^2 - 2560e^{4x}x^3 - 5120e^{2x}x^4 - 4096x^5 + e^{\frac{65536x^2+25e^{8x}x^2+400e^{6x}x^3-40960x^4+6400x^6+e^4}{e^{8x}+16e^{6x}x+96e^{4x}x^2}}}{e^{\frac{65536x^2+25e^{8x}x^2+400e^{6x}x^3-40960x^4+6400x^6+e^4}{e^{8x}+16e^{6x}x+96e^{4x}x^2}}}}$$

= Exception raised: TypeError

```
[In] integrate((((150*x^3+6*x)*exp(x)^10+(3000*x^4+120*x^2)*exp(x)^8+(24000*x^5+30720*x^4-14400*x^3)*exp(x)^6+(96000*x^6+245760*x^5-119040*x^4)*exp(x)^4+(192000*x^7+491520*x^6-238080*x^5-1572864*x^4+393216*x^3)*exp(x)^2+153600*x^8+6144*x^6-1572864*x^4)*exp((25*x^2*exp(x)^8+400*x^3*exp(x)^6+(2400*x^4-2560*x^2)*exp(x)^4+(6400*x^5-20480*x^3)*exp(x)^2+6400*x^6-40960*x^4+65536*x^2)/(exp(x)^8+16*x*exp(x)^6+96*x^2*exp(x)^4+256*exp(x)^2*x^3+256*x^4))-4*exp(x)^10-80*x*exp(x)^8-640*x^2*exp(x)^6-2560*x^3*exp(x)^4-5120*exp(x)^2*x^4-4096*x^5)/(3*exp(x)^10+60*x*exp(x)^8+480*x^2*exp(x)^6+1920*x^3*exp(x)^4+3840*exp(x)^2*x^4+3072*x^5),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
 ding error%%{-289480223093290488558927462521719769633174961664101410098643
 960019

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4163

2.3.3292 Giac [**F(-2)**]

Exception generated.

$$\int e^{\frac{2(-e^6+x+4e^3x-4x^2+(2+e^6-x-4e^3x+4x^2+(e^6x-x^2-4e^3x^2+4x^3)\log(4))\log(x))}{-1+(1+x\log(4))\log(x)}} \frac{(-4-2x-8e^3x+16x^2+(4x+16e^3x-32x^2+16e^3x^2-4x^3)\log(2)+2(-16x^2\exp(3)+32x^3-4x^2-4x)\log(2)-8x\exp(3)+16x^2-2x)\log(x)^2+(2(16x^2\exp(3)-32x^3+4x^2)\log(2)+16x\exp(3)-32x^2+4x)\log(x)-8x\exp(3)+16x^2-2x-4)\exp((2(x\exp(3)^2-4x^2\exp(3)+4x^3-x^2)\log(2)+\exp(3)^2-4x\exp(3)+4x^2-x+2)\log(x)-\exp(3)^2+4x\exp(3)-4x^2+x)/((2x\log(2)+1)\log(x)-1))^2/((4x^3\log(2)^2+4x^2\log(2)+x)\log(x)^2+(-4x^2\log(2)-2x)\log(x)+x)}{x+(-2x-}$$

= Exception raised: TypeError

[In] integrate(((4*(-8*x^3*exp(3)+16*x^4-2*x^3)*log(2)^2+2*(-16*x^2*exp(3)+32*x^3-4*x^2-4*x)*log(2)-8*x*exp(3)+16*x^2-2*x)*log(x)^2+(2*(16*x^2*exp(3)-32*x^3+4*x^2)*log(2)+16*x*exp(3)-32*x^2+4*x)*log(x)-8*x*exp(3)+16*x^2-2*x-4)*exp(((2*(x*exp(3)^2-4*x^2*exp(3)+4*x^3-x^2)*log(2)+exp(3)^2-4*x*exp(3)+4*x^2-x+2)*log(x)-exp(3)^2+4*x*exp(3)-4*x^2+x)/((2*x*log(2)+1)*log(x)-1))^2/((4*x^3*log(2)^2+4*x^2*log(2)+x)*log(x)^2+(-4*x^2*log(2)-2*x)*log(x)+x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
 ding error%%{4194304, [0, 20, 16, 0, 1]%%}+%%{46137344, [0, 19, 15, 0, 1]%%}+%%{
 229638

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4209

2.3.3293 Giac [F(-2)]

Exception generated.

$$\int e^{-x+2e^{-x}(-x+e^x(x+781250x^2\log(4)))}(-2+2x+e^x(2+3125000x\log(4))) dx$$

= Exception raised: TypeError

```
[In] integrate(((6250000*x*log(2)+2)*exp(x)+2*x-2)*exp(((1562500*x^2*log(2)+x)*exp(x)-x)/exp(x))^2/exp(x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4407

2.3.3294 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-262144(4-x)}(-16+(16+4194304x)\log(x))}{\log^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((4194304*x+16)*log(x)-16)/log(x)^2/exp(-262144*x+1048576),x, alg
orithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4774

2.3.3295 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{2e^{\frac{1}{3}\left(-3+\log\left(\frac{e^4x+x^2-3x\log(x)}{e^4+x}\right)\right)} + \frac{1}{3}\left(-3+\log\left(\frac{e^4x+x^2-3x\log(x)}{e^4+x}\right)\right)}{-3e^8x - 6e^4x^2 - 3x^3 + (9e^4x + 9x^2)\log(x)}} dx$$

= Exception raised: TypeError

```
[In] integrate((6*exp(4)*log(x)-2*exp(4)^2+(6-4*x)*exp(4)-2*x^2+6*x)*exp(1/3*log
((-3*x*log(x)+x*exp(4)+x^2)/(x+exp(4)))-1)*exp(2*exp(1/3*log((-3*x*log(x)+x
*exp(4)+x^2)/(x+exp(4)))-1))/((9*x*exp(4)+9*x^2)*log(x)-3*x*exp(4)^2-6*x^2*
exp(4)-3*x^3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const
gen &
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5066

2.3.3296 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{144x^2 - e^{4x^2}x^2 - 288x^3 - 2e^{2x^2}x^3 + 143x^4 + (288x - 288x^2)\log(x) + 144\log^2(x)}{9e^{4x^2} + 18e^{2x^2}x + 9x^2}} (288x^2 - 2e^{6x^2}x^2 - 288x^3 - 6e^{4x^2}x^3 - 288x^4 + 288x^5)$$

= Exception raised: TypeError

```
[In] integrate((((-1152*x^2*exp(x^2)^2-288*x)*log(x)^2+((2304*x^4-2304*x^3-576*x^
2+288*x+288)*exp(x^2)^2-288*x^2+288*x)*log(x)-2*x^2*exp(x^2)^6-6*x^3*exp(x^
2)^4+(-1152*x^6+2304*x^5-582*x^4-864*x^3+288*x)*exp(x^2)^2+286*x^5-288*x^4-
288*x^3+288*x^2)*exp((144*log(x)^2+(-288*x^2+288*x)*log(x)-x^2*exp(x^2)^4-2
*x^3*exp(x^2)^2+143*x^4-288*x^3+144*x^2)/(9*exp(x^2)^4+18*x*exp(x^2)^2+9*x^
2)))/(9*x*exp(x^2)^6+27*x^2*exp(x^2)^4+27*x^3*exp(x^2)^2+9*x^4),x, algorithm
="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
 ding error%%{-339738624, [2,9,18]%%}+%%{339738624, [2,9,16]%%}+%%{-12740
 1984, [

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5070

2.3.3297 Giac [F(-2)]

Exception generated.

$$\int \frac{36x^6 - 36x^7 + 8x^8 + e^e(-64 + 180x^6 - 144x^7 + 4x^8 + 8x^9) + e^{2e}(-160 - 40x + 225x^6 - 135x^7 - 31x^8)}{32x^5 + e^e(160x^5 + 32x^6) + e^{2e}(200x^5 + 80x^6 + 8x^7)} dx$$

= Exception raised: NotImplementedError

[In] integrate(((2*x^10+11*x^9-31*x^8-135*x^7+225*x^6-40*x-160)*exp(exp(1))^2+(8*x^9+4*x^8-144*x^7+180*x^6-64)*exp(exp(1))+8*x^8-36*x^7+36*x^6)/((8*x^7+80*x^6+200*x^5)*exp(exp(1))^2+(32*x^6+160*x^5)*exp(exp(1))+32*x^5),x, algorithm m="giac")

[Out] Exception raised: NotImplementedError >> unable to parse Giac output: 1/8*(
 (1/2*sageVARx^4*exp(2*exp(1))^4-3*sageVARx^3*exp(2*exp(1))^4+9/2*sageVARx^2
 *exp(2*exp(1))^4)/exp(2*exp(1))^4+((-375000*exp(2*exp(1))^5-900000*exp(2*ex
 p(1))^4*exp(exp(

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5113

2.3.3298 Giac [F(-2)]

Exception generated.

$$\int \frac{-324 + 29x^2 + 20x^3 + 3x^4 + e^8(-81 + 2x^2) + e^4(-324 + 14x^2 + 4x^3)}{324x + 72x^2 + 29x^3 + 10x^4 + x^5 + e^8(81x + 18x^2 + 2x^3) + e^4(324x + 72x^2 + 14x^3 + 2x^4)} dx$$

= Exception raised: TypeError

```
[In] integrate(((2*x^2-81)*exp(4)^2+(4*x^3+14*x^2-324)*exp(4)+3*x^4+20*x^3+29*x^2-324)/((2*x^3+18*x^2+81*x)*exp(4)^2+(2*x^4+14*x^3+72*x^2+324*x)*exp(4)+x^5+10*x^4+29*x^3+72*x^2+324*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:sym2poly/r2sym(const gen & e,const in
dex_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5245

2.3.3299 Giac [F(-2)]

Exception generated.

$$\int \frac{8 - 2x + 6x^2 + (4 + x - x^2) \log\left(\frac{256+256x-160x^2-176x^3+49x^4+44x^5-10x^6-4x^7+x^8}{128x^2}\right) \log\left(\log\left(\frac{256+256x-160x^2-176x^3+49x^4+44x^5-10x^6-4x^7+x^8}{128x^2}\right)\right)}{(-4x^2 - x^3 + x^4) \log\left(\frac{256+256x-160x^2-176x^3+49x^4+44x^5-10x^6-4x^7+x^8}{128x^2}\right)}$$

= Exception raised: TypeError

```
[In] integrate(((x^2+x+4)*log(1/128*(x^8-4*x^7-10*x^6+44*x^5+49*x^4-176*x^3-160*x^2+256*x+256)/x^2)*log(log(1/128*(x^8-4*x^7-10*x^6+44*x^5+49*x^4-176*x^3-160*x^2+256*x+256)/x^2))+6*x^2-2*x+8)/(x^4-x^3-4*x^2)/log(1/128*(x^8-4*x^7-10*x^6+44*x^5+49*x^4-176*x^3-160*x^2+256*x+256)/x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:simplify: Polynomials do not have the
same dimension Error: Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5379

2.3.3300 Giac [F(-2)]

Exception generated.

$$\int \frac{2e^x + e^{1+e^{-x}}(x-x^2)\log(x)\log(125e^2\log^2(x))}{e^{1+x+e^{-x}}x\log(x)\log(125e^2\log^2(x)) + e^xx\log(x)\log(125e^2\log^2(x))\log(\log(125e^2\log^2(x)))} dx$$

= Exception raised: TypeError

```
[In] integrate(((x^2+x)*exp(1)*log(x)*exp(x/exp(x))*log(125*exp(2)*log(x)^2)+2*
exp(x))/(x*exp(x)*log(x)*log(125*exp(2)*log(x)^2)*log(log(125*exp(2)*log(x)
^2))+x*exp(1)*exp(x)*log(x)*exp(x/exp(x))*log(125*exp(2)*log(x)^2)),x, algo
rithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:ln of unsigned or minus infinity Erro
r: Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5593

2.3.3301 Giac [F(-2)]

Exception generated.

$$\int \frac{(4-x)^{\frac{5e^x}{-3+20e^x}}(-90e^x+600e^{2x}+e^x(360-90x)\log(4-x))+(4-x)^{\frac{10e^x}{-3+20e^x}}(-30e^x+200e^{2x}+e^x(120-90x)\log(4-x))}{-36+e^x(480-120x)+9x+e^{2x}(-1600+400x)}$$

= Exception raised: TypeError

```
[In] integrate((((-30*x+120)*exp(x)*log(-x+4)+200*exp(x)^2-30*exp(x))*exp(5*exp(
x)*log(-x+4)/(20*exp(x)-3))^2+((-90*x+360)*exp(x)*log(-x+4)+600*exp(x)^2-90
*exp(x))*exp(5*exp(x)*log(-x+4)/(20*exp(x)-3)))/((400*x-1600)*exp(x)^2+(-12
0*x+480)*exp(x)+9*x-36),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{62985600000, [1,8,8,1]%%}+%%{503884800000, [1,8,7,1]%%}+%%{
-78732
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5613

2.3.3302 Giac [F(-2)]

Exception generated.

$$\int \frac{2e^{e^4+e^e} + e^{e^4}(-20 - 8x)}{300x^2 + 120x^3 + 12x^4 + e^{2e^e}(75 + 30x + 3x^2) + e^{e^e}(-300x - 120x^2 - 12x^3)} dx$$

= Exception raised: NotImplementedError

```
[In] integrate((2*exp(exp(4))*exp(exp(exp(1)))+(-8*x-20)*exp(exp(4)))/((3*x^2+30*x+75)*exp(exp(exp(1)))^2+(-12*x^3-120*x^2-300*x)*exp(exp(exp(1)))+12*x^4+120*x^3+300*x^2),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -2/3*((-2*exp(2*exp(exp(1)))*exp(exp(4))-20*exp(exp(exp(1)))*exp(exp(4))+2*exp(exp(exp(1)))*exp(exp(4)+exp(exp(1)))+20*exp(exp(4)+exp(exp(1))))/(exp(2*exp(exp(1)))^2+40*exp
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5706

2.3.3303 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{8x^2}{e^{2x}-2e^x+x^2}}(e^{3x}(1-x) - x^3 + x^4 + e^{2x}(-3x + 3x^2) + e^x(3x^2 - 3x^3) + (e^x(16x^3 - 16x^4) + e^x(-16x^2 - 16x^3) - e^{3x}x^2 + 3e^{2x}x^3 - 3e^xx^4 + x^5 + (e^{3x}x - 3e^{2x}x^2 + 3e^xx^3 - x^4)\log(x))}{-e^{3x}x^2 + 3e^{2x}x^3 - 3e^xx^4 + x^5 + (e^{3x}x - 3e^{2x}x^2 + 3e^xx^3 - x^4)\log(x)}$$

= Exception raised: TypeError

```
[In] integrate((((16*x^3-16*x^2)*exp(x)*log(x)+(-16*x^4+16*x^3)*exp(x))*log(log(x)-x)+(1-x)*exp(x)^3+(3*x^2-3*x)*exp(x)^2+(-3*x^3+3*x^2)*exp(x)+x^4-x^3)/((x*exp(x)^3-3*exp(x)^2*x^2+3*exp(x)*x^3-x^4)*log(x)-x^2*exp(x)^3+3*exp(x)^2*x^3-3*exp(x)*x^4+x^5)/exp(8*x^2/(exp(x)^2-2*exp(x)*x+x^2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{-16, [1, 23, 7]%%}+%%{64, [1, 23, 6]%%}+%%{-96, [1, 23, 5]%%}+%%{64, [1
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5841

2.3.3304 Giac [F(-2)]

Exception generated.

$$\int \frac{\left(18e^{\frac{1}{x}+2x}x^2 + 180e^{\frac{1}{x}}x^3 + e^{\frac{1}{x}+x}(90x^2 + 36x^3)\right) \log\left(\frac{1}{3}(e^x + x^2)\right) + \left(-45e^{\frac{1}{x}}x^2 + e^{\frac{1}{x}+2x}(-9 + 9x^2) + e^{\frac{1}{x}+x}\right)}{e^xx^2 + x^4}$$

= Exception raised: TypeError

```
[In] integrate((((9*x^2-9)*exp(1/x)*exp(x)^2+(9*x^4-9*x^2-45)*exp(1/x)*exp(x)-45*x^2*exp(1/x))*log(1/3*x^2+1/3*exp(x))^2+(18*x^2*exp(1/x)*exp(x)^2+(36*x^3+90*x^2)*exp(1/x)*exp(x)+180*x^3*exp(1/x))*log(1/3*x^2+1/3*exp(x)))/(exp(x)*x^2+x^4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [0, 14]%%}+%%{4, [0, 13]%%}+%%{-3, [0, 12]%%}+%%{-4, [0, 11]%%}+
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5858

2.3.3305 Giac [F(-2)]

Exception generated.

$$\int \frac{6e^{8e^{1171875/x}}x + 6x^3 + e^{4e^{1171875/x}}(-9375000e^{1171875/x} - 2x + 12x^2) + (6e^{8e^{1171875/x}}x - 2x^2 + 6x^3 + e^{4e^{1171875/x}})}{3e^{8e^{1171875/x}}x - x^2 + 3x^3 + e^{4e^{1171875/x}}(-x + 6x^2)}$$

```
[In] integrate(((6*x*exp(4*exp(1171875/x))^2+(12*x^2-2*x)*exp(4*exp(1171875/x))+6*x^3-2*x^2)*log((-3*x*exp(4*exp(1171875/x))-3*x^2+x)/(3*exp(4*exp(1171875/x))+3*x))+6*x*exp(4*exp(1171875/x))^2+(-9375000*exp(1171875/x)+12*x^2-2*x)*exp(4*exp(1171875/x))+6*x^3)/(3*x*exp(4*exp(1171875/x))^2+(6*x^2-x)*exp(4*exp(1171875/x))+3*x^3-x^2),x, algorithm="giac")
```

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx);OUTPUT:Polynomial exponent overflow. Error:
 Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5940

2.3.3306 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{2 \log^2(x)}{-8x+2x^2+3e^{4+x}x^2-4x^3}} \left((32 - 8x - 12e^{4+x}x + 16x^2) \log(x) + (-16 + 8x - 24x^2 + e^{4+x}(12x + 6x^2)) \log^2(x) \right)}{64x^2 - 32x^3 + 68x^4 + 9e^{8+2x}x^4 - 16x^5 + 16x^6 + e^{4+x}(-48x^3 + 12x^4 - 24x^5)} dx$$

= Exception raised: RuntimeError

[In] integrate((((6*x^2+12*x)*exp(4+x)-24*x^2+8*x-16)*log(x)^2+(-12*x*exp(4+x)+1
 6*x^2-8*x+32)*log(x))*exp(-2*log(x)^2/(3*x^2*exp(4+x)-4*x^3+2*x^2-8*x))/(9*
 x^4*exp(4+x)^2+(-24*x^5+12*x^4-48*x^3)*exp(4+x)+16*x^6-16*x^5+68*x^4-32*x^3
 +64*x^2),x, algorithm="giac")

[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
 INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{174142
 58688, [0,8,9,38,8]}%%}{-156728328192, [0,8,9,37,8]}%%}{796702334976,
 [0,8,9,36

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6028

2.3.3307 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{8-8x-8x^3+8x^4+e^{2x}(-8x^2+8x^3)}{e^{2x}x^2+x^3}} \frac{(-24x + 16x^2 + 8e^{4x}x^3 + 8x^5 + e^{2x}(-16 - 8x + 16x^2 + 16x^4))}{e^{4x}x^3 + 2e^{2x}x^4 + x^5} dx$$

= Exception raised: TypeError

```
[In] integrate((8*x^3*exp(x)^4+(16*x^4+16*x^2-8*x-16)*exp(x)^2+8*x^5+16*x^2-24*x
)*exp(((8*x^3-8*x^2)*exp(x)^2+8*x^4-8*x^3-8*x+8)/(exp(x)^2*x^2+x^3))/(x^3*exp(x)^4+2*exp(x)^2*x^4+x^5),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{512, [1,17]%%}+%%{-2048, [1,16]%%}+%%{2816, [1,15]%%}+%%{-6752, [
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6050

2.3.3308 Giac [F(-2)]

Exception generated.

$$\int \frac{-80e^2 - 64x + e^x(8x^3 + 4x^4 + e^2(4x^2 + 4x^3)) + (144e^2 + 136x + e^x(-6x^3 - 4x^4 + e^2(-4x^2 - 4x^3)))}{400e^2 + 400x + e^x(40e^2x^2 + 40x^3) + e^{2x}(e^2x^4 + x^5) + (-640e^2 - 640x + e^x(-32e^2x^2 - 32x^3))} dx$$

= Exception raised: TypeError

```
[In] integrate((((-4*exp(2)-4*x)*log(x+exp(2)))^4+(32*exp(2)+32*x)*log(x+exp(2)))^3
+(((x^3+x^2)*exp(2)+x^4+x^3)*exp(x)-100*exp(2)-100*x)*log(x+exp(2))^2+(((4
*x^3-4*x^2)*exp(2)-4*x^4-6*x^3)*exp(x)+144*exp(2)+136*x)*log(x+exp(2))+((4*
x^3+4*x^2)*exp(2)+4*x^4+8*x^3)*exp(x)-80*exp(2)-64*x)/((16*exp(2)+16*x)*log
(x+exp(2))^4+(-128*exp(2)-128*x)*log(x+exp(2))^3+((8*x^2*exp(2)+8*x^3)*exp(
x)+416*exp(2)+416*x)*log(x+exp(2))^2+((-32*x^2*exp(2)-32*x^3)*exp(x)-640*ex
p(2)-640*x)*log(x+exp(2))+x^4*exp(2)+x^5)*exp(x)^2+(40*x^2*exp(2)+40*x^3)*
exp(x)+400*exp(2)+400*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6464

2.3.3309 Giac [F(-2)]

Exception generated.

$$\int \frac{-27 + 3e^{256} - 36x^3 + (27 - 3e^{256} + 9x - 18x^3) \log(x) + (-27 + 3e^{256} - 9x + 18x^3) \log^2(x) + (18 - 2e^{256} + 6x - 12x^3) \log(x) \log\left(\frac{1}{3}(-9 + e^{256} - 3x + 6x^3)\right) + (-9 + e^{256} - 3x + 6x^3) \log^2(x)}{(-9 + e^{256} - 3x + 6x^3) \log^2(x) + (18 - 2e^{256} + 6x - 12x^3) \log(x) \log\left(\frac{1}{3}(-9 + e^{256} - 3x + 6x^3)\right) + (-9 + e^{256} - 3x + 6x^3) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate(((3*exp(256)+18*x^3-9*x-27)*log(1/3*exp(256)+2*x^3-x-3)+(-3*exp(256)-18*x^3+9*x+27)*log(x)+3*exp(256)-36*x^3-27)/((exp(256)+6*x^3-3*x-9)*log(1/3*exp(256)+2*x^3-x-3)^2+(-2*exp(256)-12*x^3+6*x+18)*log(x)*log(1/3*exp(256)+2*x^3-x-3)+(exp(256)+6*x^3-3*x-9)*log(x)^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Francis algorithm failure for[-1.0,0.0,1.23157876138e+243,undef]proot error [1.0,-0.0,-1.23157876138e+243,undef]
Franci
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6657

2.3.3310 Giac [F(-2)]

Exception generated.

$$\int \frac{(-6 - 60x + 24x^2 + e^x(-12x - 12x^2)) \log^2(x) + ((2 + 20x - 8x^2 + e^x(4x + 4x^2)) \log(x) + ((60x + 12x^2) \log(x) + (60x + 12x^2) \log^2(x)) \log(\log(x) + 2\exp(x)x - 2x^2 + 10x)) \log(\log(\log(x) + 2\exp(x)x - 2x^2 + 10x)) + ((6 \log(x)^2 + (12 \exp(x)x - 12x^2 + 60x) \log(x)) \log(\log(x) + 2\exp(x)x - 2x^2 + 10x)) + ((4x^2 + 4x) \exp(x) - 8x^2 + 20x + 2) \log(x)) \log(\log(\log(x) + 2\exp(x)x - 2x^2 + 10x)) + ((-12x^2 - 12x) \exp(x) + 24x^2 - 60x - 6) \log(x)^2) / (x \log(x)^4 + (2 \exp(x)x^2 - 2x^3 + 10x^2) \log(x)^3) / \log(\log(x) + 2\exp(x)x - 2x^2 + 10x), x, algorithm="giac")$$

= Exception raised: TypeError

```
[In] integrate(((2*log(x)-4*exp(x)*x+4*x^2-20*x)*log(log(x)+2*exp(x)*x-2*x^2+10*x)*log(log(log(x)+2*exp(x)*x-2*x^2+10*x))^2+((6*log(x)^2+(12*exp(x)*x-12*x^2+60*x)*log(x))*log(log(x)+2*exp(x)*x-2*x^2+10*x))+((4*x^2+4*x)*exp(x)-8*x^2+20*x+2)*log(x))*log(log(log(x)+2*exp(x)*x-2*x^2+10*x))+((-12*x^2-12*x)*exp(x)+24*x^2-60*x-6)*log(x)^2)/(x*log(x)^4+(2*exp(x)*x^2-2*x^3+10*x^2)*log(x)^3)/log(log(x)+2*exp(x)*x-2*x^2+10*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Sign error %%%{ln(w),0%%}%Sign error %%%{ln(w),0%%}%Sign error %%%{ln(w),0%%}%Done
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6684

2.3.3311 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{2-x+\log(2)}}(-2x-x\log(2)) + \frac{e^{450+\frac{x}{2-x+\log(2)}+50\log^2(x^2)}(-2x-x\log(2))}{x^{600}} + \frac{e^{225+25\log^2(x^2)}(600-600x+150x^2+(600-300x))}{x^{300}}}{4x-4x^2+x^3+(4x-2x^2)\log(2)+x\log^2(2) + \frac{e^{225+25\log^2(x^2)}(-8x+8x^2-2x^3+(-8x+4x^2))}{x^{300}}}$$

= Exception raised: TypeError

```
[In] integrate(((x*log(2)-2*x)*exp(x/(log(2)+2-x))*exp(25*log(x^2)^2-150*log(x^2)+225)^2+((-50*log(2)^2+(100*x-200)*log(2)-50*x^2+200*x-200)*log(x^2)+(2*x*log(2)+4*x)*exp(x/(log(2)+2-x))+150*log(2)^2+(-300*x+600)*log(2)+150*x^2-600*x+600)*exp(25*log(x^2)^2-150*log(x^2)+225)+(-x*log(2)-2*x)*exp(x/(log(2)+2-x)))/((x*log(2)^2+(-2*x^2+4*x)*log(2)+x^3-4*x^2+4*x)*exp(25*log(x^2)^2-150*log(x^2)+225)^2+(-2*x*log(2)^2+(4*x^2-8*x)*log(2)-2*x^3+8*x^2-8*x)*exp(25*log(x^2)^2-150*log(x^2)+225)+x*log(2)^2+(-2*x^2+4*x)*log(2)+x^3-4*x^2+4*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-24000000,[0,3,915,1,1]%%}+%%{-48000000,[0,3,915,0,1]%%}+%%{264
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6767

2.3.3312 Giac [F(-2)]

Exception generated.

$$\int \frac{(4x - 10x^2 + 6x^3) \log^2(x) + e^{\frac{-x+x^2+5\log(x)}{(-1+x)\log(x)}} (-x + 2x^2 - x^3 + (x - 2x^2 + x^3) \log(x) + (1 - 8x + 2x^2) \log(x))}{(-1+x) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((((2*x^2-8*x+1)*log(x)^2+(x^3-2*x^2+x)*log(x)-x^3+2*x^2-x)*exp((5
*log(x)+x^2-x)/(-1+x)/log(x))+(6*x^3-10*x^2+4*x)*log(x)^2)/(-1+x)/log(x)^2,
x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{4, [1,28]%%}+%%{-74, [1,27]%%}+%%{630, [1,26]%%}+%%{-3290,
[1,25]
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6770

2.3.3313 Giac [F(-2)]

Exception generated.

$$\int \frac{(-e^{2x} + 3e^x x - 2x^2) \log\left(\frac{e^{2x} x - 2e^x x^2}{e^{2x} - 2e^x x + x^2}\right) + (e^{2x} - 3e^x x + 2x^3) \log(x) \log(\log(x)) + (e^{2x} - 3e^x x + 2x^2) \log\left(\frac{e^{2x} x - 2e^x x^2}{e^{2x} - 2e^x x + x^2}\right) \log(\log(x))}{(e^{2x} - 3e^x x + 2x^2) \log(x) \log\left(\frac{e^{2x} x - 2e^x x^2}{e^{2x} - 2e^x x + x^2}\right) \log(\log(x))}$$

= Exception raised: TypeError

```
[In] integrate(((exp(x)^2-3*exp(x)*x+2*x^2)*log(x)*log((x*exp(x)^2-2*exp(x)*x^2)
/(exp(x)^2-2*exp(x)*x+x^2))*log(log(x))*log(log((x*exp(x)^2-2*exp(x)*x^2)/(
exp(x)^2-2*exp(x)*x+x^2))/log(log(x)))+(exp(x)^2-3*exp(x)*x+2*x^3)*log(x)*l
og(log(x))+(-exp(x)^2+3*exp(x)*x-2*x^2)*log((x*exp(x)^2-2*exp(x)*x^2)/(exp(
x)^2-2*exp(x)*x+x^2)))/(exp(x)^2-3*exp(x)*x+2*x^2)/log(x)/log((x*exp(x)^2-2
*exp(x)*x^2)/(exp(x)^2-2*exp(x)*x+x^2))/log(log(x)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6890

2.3.3314 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{67837+6x-3x^2}{768x}}(-67837-3x^2)}{3072x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/3072*(-3*x^2-67837)*exp(1/768*(-3*x^2+6*x+67837)/x)/x^2,x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6897

2.3.3315 Giac [F(-2)]

Exception generated.

$$\int \frac{(4+4x+4e^xx)\log^3(5+e^x+x+\log(x))}{20x+4e^xx+4x^2+4x\log(x)+(5+e^xx+x^2+x\log(x))\log^4(5+e^x+x+\log(x))} dx$$

= Exception raised: TypeError

[In] integrate((4*exp(x)*x+4*x+4)*log(log(x)+exp(x)+5+x)^3/((x*log(x)+exp(x)*x+x^2+5*x)*log(log(x)+exp(x)+5+x)^4+4*x*log(x)+4*exp(x)*x+4*x^2+20*x),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Sign error %%%{ln(w),0%%}Sign error
%%{ln(w),0%%}Sign error %%%{ln(w),0%%}Sign error %%%{ln(w),0%%}Sign error
or %%%

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6956

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7172

2.3.3318 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{225/x}(2x - x^9) + e^{225/x}(-450 + 2x + 225x^8 + 7x^9) \log(x)}{4x - 4x^9 + x^{17}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((7*x^9+225*x^8+2*x-450)*exp(225/x)*log(x)+(-x^9+2*x)*exp(225/x))
/(x^17-4*x^9+4*x),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Polynomial exponent overflow. Error:
Bad Argument Value
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7454

2.3.3319 Giac [F(-2)]

Exception generated.

$$\int \frac{2e^3 x - 12x^6 - 50398x^7 - 77752800x^8 - 52478280000x^9 - 13116168000000x^{10} + 1312200000000x^{11} + \dots}{\dots} = \text{Exception raised: TypeError}$$

```
[In] integrate((( -2*exp(exp(3))-1312200000000*x^10+13116168000000*x^9+5247828000
0*x^8+77752800*x^7+50398*x^6+12*x^5)*log(2*exp(exp(3))+1312200000000*x^10+5
832000000*x^9+9720000*x^8+7200*x^7+2*x^6)+2*x*exp(exp(3))+1312200000000*x^1
1-13116168000000*x^10-52478280000*x^9-77752800*x^8-50398*x^7-12*x^6)/(exp(e
xp(3))+656100000000*x^10+2916000000*x^9+4860000*x^8+3600*x^7+x^6),x, algori
thm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Francis algorithm failure for[1.0,0.0
```

,infinity,infinity,infinity,infinity,infinity,infinity,infinity,infinity,infinity,infinity,infinity

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7581

2.3.3320 Giac [F(-2)]

Exception generated.

$$\int \frac{48x^3 + 3x^5 + (-144x^2 - 9x^4)\log(x) + (144x + 9x^3)\log^2(x) + (-48 - 3x^2)\log^3(x) + e^{\frac{2(3x^2+3x^4-6x^3\log(x))}{x^2-2x\log(x)+1}}}{x^2-2x\log(x)+1} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-12*x^2-1)*log(x)^3+(36*x^3+3*x)*log(x)^2+(-36*x^4-15*x^2)*log(x)+12*x^5+x^3+12*x^2)*exp((3*x^2*log(x)^2-6*x^3*log(x)+3*x^4+3*x^2)/(log(x)^2-2*x*log(x)+x^2))^2+((-12*x^3-4*x)*log(x)^3+(36*x^4+12*x^2)*log(x)^2+(-36*x^5-24*x^3)*log(x)+12*x^6+4*x^4+12*x^3)*exp((3*x^2*log(x)^2-6*x^3*log(x)+3*x^4+3*x^2)/(log(x)^2-2*x*log(x)+x^2))+(-3*x^2-48)*log(x)^3+(9*x^3+144*x)*log(x)^2+(-9*x^4-144*x^2)*log(x)+3*x^5+48*x^3)/(16*log(x)^3-48*x*log(x)^2+48*x^2*log(x)-16*x^3),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{62208,[2,38]%%}+%%{-808704,[2,37]%%}+%%{4852224,[2,36]%%}+%%{
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7778

2.3.3321 Giac [F(-2)]

Exception generated.

$$\int \frac{10e^x + e^{2x-x^2+\frac{1}{10}(-30+e^{2x-x^2}x)}(-1-2x+2x^2)}{20e^{2x} + 20e^{\frac{1}{5}(-30+e^{2x-x^2}x)} - 40e^x \log(2) + 20 \log^2(2) + e^{\frac{1}{10}(-30+e^{2x-x^2}x)}(-40e^x + 40 \log(2))} dx$$

= Exception raised: TypeError

```
[In] integrate(((2*x^2-2*x-1)*exp(-x^2+2*x)*exp(1/10*x*exp(-x^2+2*x)-3)+10*exp(x
))/ (20*exp(1/10*x*exp(-x^2+2*x)-3)^2+(-40*exp(x)+40*log(2))*exp(1/10*x*exp(
-x^2+2*x)-3)+20*exp(x)^2-40*exp(x)*log(2)+20*log(2)^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Not invertible Error: Bad Argument Va
lue
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7781

2.3.3322 Giac [F(-2)]

Exception generated.

$$\int \frac{-e^{5x} - 5e^{4x}x - 10e^{3x}x^2 - 10e^{2x}x^3 - 5e^xx^4 - x^5 + e^{\frac{1-4x+2x^2+8x^3-5x^4-9x^5+2x^6+4x^7+x^8+e^{4x}(1+3x+6x^2+4x^3+x^4)+e^{3x}}{}}}{}$$

= Exception raised: TypeError

```
[In] integrate((((4*x^5+12*x^4+12*x^3+3*x^2+x)*exp(x)^5+(20*x^6+64*x^5+60*x^4+3*
x^3-3*x^2)*exp(x)^4+(40*x^7+132*x^6+112*x^5-30*x^4-26*x^3+4*x^2)*exp(x)^3+(
40*x^8+132*x^7+96*x^6-66*x^5-38*x^4+12*x^3-4*x^2)*exp(x)^2+(20*x^9+64*x^8+3
6*x^7-45*x^6-15*x^5-8*x^3+8*x^2)*exp(x)+4*x^10+12*x^9+4*x^8-9*x^7+x^6-8*x^5
-4*x^4+12*x^3-4*x^2)*exp(((x^4+4*x^3+6*x^2+3*x+1)*exp(x)^4+(4*x^5+16*x^4+20
*x^3-8*x-4)*exp(x)^3+(6*x^6+24*x^5+24*x^4-18*x^3-24*x^2+6)*exp(x)^2+(4*x^7+
16*x^6+12*x^5-24*x^4-20*x^3+12*x^2+8*x-4)*exp(x)+x^8+4*x^7+2*x^6-9*x^5-5*x^
4+8*x^3+2*x^2-4*x+1)/(exp(x)^4+4*x*exp(x)^3+6*exp(x)^2*x^2+4*exp(x)*x^3+x^4
))-exp(x)^5-5*x*exp(x)^4-10*x^2*exp(x)^3-10*exp(x)^2*x^3-5*exp(x)*x^4-x^5)/
(x*exp(x)^5+5*x^2*exp(x)^4+10*x^3*exp(x)^3+10*exp(x)^2*x^4+5*x^5*exp(x)+x^6
),x, algorithm="giac")
```


[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-167772160,[4,36]%%}+%%{4697620480,[4,35]%%}+%%{-6291456000,[4

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7998

2.3.3323 Giac [F(-2)]

Exception generated.

$$\int \frac{4 + 5e^{12+2x^2-4e^3x^2+2e^6x^2} + 5x^2 + e^{6+x^2-2e^3x^2+e^6x^2}(18x - 16e^3x + 8e^6x)}{5e^{12+2x^2-4e^3x^2+2e^6x^2} + 10e^{6+x^2-2e^3x^2+e^6x^2}x + 5x^2} dx$$

= Exception raised: TypeError

[In] integrate((5*exp(x^2*exp(3)^2-2*x^2*exp(3)+x^2+6)^2+(8*x*exp(3)^2-16*x*exp(3)+18*x)*exp(x^2*exp(3)^2-2*x^2*exp(3)+x^2+6)+5*x^2+4)/(5*exp(x^2*exp(3)^2-2*x^2*exp(3)+x^2+6)^2+10*x*exp(x^2*exp(3)^2-2*x^2*exp(3)+x^2+6)+5*x^2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8098

2.3.3324 Giac [F(-2)]

Exception generated.

$$\int \frac{(-4 + 4e^{4-x}) \log^2(x) + e^{\frac{5x^2}{4 \log(x)}} (-5x + 10x \log(x))}{4e^{\frac{5x^2}{4 \log(x)}} \log^2(x) + (-28 - 4e^{4-x} - 4x) \log^2(x)} dx = \text{Exception raised: TypeError}$$

[In] integrate(((10*x*log(x)-5*x)*exp(5/4*x^2/log(x))+(4*exp(-x+4)-4)*log(x)^2)/(4*log(x)^2*exp(5/4*x^2/log(x))+(-4*exp(-x+4)-4*x-28)*log(x)^2),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{62500,[0,17]%%} / %%{250000,[0,17]%%} Error: Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8221

2.3.3325 Giac [F(-2)]

Exception generated.

$$\int \frac{18x + 13x^2 + 4x^3 - 3x^4 + x^5 + e^{25}(36x^2 + 16x^3 - 8x^4 + 4x^5) + (18x + 8x^2 - 4x^3 + 2x^4 + e^{25}(72x + 3))}{e^{25}(9x^2 + 4x^3 - 2x^4 + x^5) + e^{25}(18x + 8x^2 - 4x^3 + 2x^4) \log\left(\frac{9+4x-x^2}{x}\right)}$$

= Exception raised: TypeError

[In] integrate(((4*x^3-8*x^2+16*x+36)*exp(25)*log((x^3-2*x^2+4*x+9)/x^2)^2+((8*x^4-16*x^3+32*x^2+72*x)*exp(25)+2*x^4-4*x^3+8*x^2+18*x)*log((x^3-2*x^2+4*x+9)/x^2)+(4*x^5-8*x^4+16*x^3+36*x^2)*exp(25)+x^5-3*x^4+4*x^3+13*x^2+18*x)/((x^3-2*x^2+4*x+9)*exp(25)*log((x^3-2*x^2+4*x+9)/x^2)^2+(2*x^4-4*x^3+8*x^2+18*x)*exp(25)*log((x^3-2*x^2+4*x+9)/x^2)+(x^5-2*x^4+4*x^3+9*x^2)*exp(25)),x, algorithm="giac")

[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
 UT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const in dex_m & i,const vecteur & l) Error: Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8232

2.3.3326 Giac [F(-2)]

Exception generated.

$$\int \frac{-30 \log^2(x) + e^{\frac{-2x+x^2+3x \log(x)}{30 \log(x)}} (2x - x^2 + (-2x + 2x^2) \log(x) + (30 + 3x) \log^2(x))}{30x^2 \log^2(x) - 60e^{\frac{-2x+x^2+3x \log(x)}{30 \log(x)}} x^2 \log^2(x) + 30e^{\frac{-2x+x^2+3x \log(x)}{15 \log(x)}} x^2 \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((3*x+30)*log(x)^2+(2*x^2-2*x)*log(x)-x^2+2*x)*exp(1/30*(3*x*log
(x)+x^2-2*x)/log(x))-30*log(x)^2)/(30*x^2*log(x)^2*exp(1/30*(3*x*log(x)+x^2
-2*x)/log(x))^2-60*x^2*log(x)^2*exp(1/30*(3*x*log(x)+x^2-2*x)/log(x))+30*x^
2*log(x)^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{50625, [0, 19]%%}+%%{-607500, [0, 18]%%}+%%{3037500, [0, 17]%%
}+%%{
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8511

2.3.3327 Giac [F(-2)]

Exception generated.

$$\int \frac{5e^{8+18x}x^2 + 5x^4 + e^{\frac{2}{5}/x}(-9x + 15x^2) + e^{4+9x}(10x^3 + e^{\frac{2}{5}/x}(6 + 135x^2)) + (-6e^{\frac{2}{5}/x} - 10e^{4+9x}x^2 - 10x^4)}{60e^{8+18x}x^2 + 120e^{4+9x}x^3 + 60x^4 + (-120e^{4+9x}x^2 - 120x^3) \log(x) + 60x^2 \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((5*x^2*log(x)^2+(-10*x^2*exp(9*x+4)-6*exp(2/5/x)-10*x^3)*log(x)+5
*x^2*exp(9*x+4)^2+((135*x^2+6)*exp(2/5/x)+10*x^3)*exp(9*x+4)+(15*x^2-9*x)*e
xp(2/5/x)+5*x^4)/(60*x^2*log(x)^2+(-120*x^2*exp(9*x+4)-120*x^3)*log(x)+60*x
^2*exp(9*x+4)^2+120*x^3*exp(9*x+4)+60*x^4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-109350, [0, 3, 6, 0]%%}+%%{-4860, [0, 3, 4, 0]%%}+%%{273375, [0, 2
, 8, 0]%
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8966

2.3.3328 Giac [F(-2)]

Exception generated.

$$\int \frac{(16 + 8x + x^2 + e^x(-32 - 16x - 2x^2)) \log^2(x) + e^{2x}(16 + 8x + x^2)}{(16 + 8x + x^2 + e^x(-32 - 16x - 2x^2)) + e^{2x}}$$

= Exception raised: TypeError

```
[In] integrate((((8*x+40)*exp(x)-8)*log(x)^2+((4*x^2+16*x-16)*exp(x)+16)*log(x)
+(4*x+16)*exp(x)-16-4*x)*exp((-8*log(x)-4*x)/((4+x)*exp(x)-x-4)/log(x))+((x
^2+8*x+16)*exp(x)^2+(-2*x^2-16*x-32)*exp(x)+x^2+8*x+16)*log(x)^2)/((x^2+8*x
+16)*exp(x)^2+(-2*x^2-16*x-32)*exp(x)+x^2+8*x+16)/log(x)^2,x, algorithm="gi
ac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:exp(sageVARx)^2=exp(2*sageVARx)exp(sa
geVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=exp
(2*sag
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9232

2.3.3329 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{e}{\log\left(\frac{3+e^{8+x}}{e^8}\right)}} \left(e^{8+x}(-24e - e^3x) + (3e^2 + e^{10+x}) \log^2\left(\frac{3+e^{8+x}}{e^8}\right) \right)}{(3 + e^{8+x}) \log^2\left(\frac{3+e^{8+x}}{e^8}\right)} dx$$

= Exception raised: TypeError

```
[In] integrate(((exp(2)*exp(4)^2*exp(x)+3*exp(2))*log((exp(4)^2*exp(x)+3)/exp(4)
^2)^2+(-x*exp(1)*exp(2)-24*exp(1))*exp(4)^2*exp(x))*exp(exp(1)/log((exp(4)^
```

```
2*exp(x)+3)/exp(4)^2))/(exp(4)^2*exp(x)+3)/log((exp(4)^2*exp(x)+3)/exp(4)^2
)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1, [1,17,9,10,0,80,1]%%}+%%{21, [1,17,9,9,0,72,1]%%}+%%{189
, [1,17
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9388

2.3.3330 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 - \frac{-4x + e^2 x \log(x^2)}{e^2}} \left(-e^2 \log\left(\frac{25}{2}\right) + (-20 + e^2(10 - 2x) + 4x) \log\left(\frac{25}{2}\right) \log(5 - x) + e^2(5 - x) \log\left(\frac{25}{2}\right) \log(5 - x) \right)}{(-5 + x) \log^2(5 - x)}$$

= Exception raised: TypeError

```
[In] integrate(((5-x)*exp(2)*log(25/2)*log(5-x)*log(x^2)+((-2*x+10)*exp(2)+4*x-2
0)*log(25/2)*log(5-x)-exp(2)*log(25/2))/(-5+x)/exp(2)/log(5-x)^2/exp((x*exp
(2)*log(x^2)-4*x)/exp(2)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-4, [0,0,5,4,1,0]%%}+%%{4, [0,0,5,4,0,1]%%}+%%{1, [0,0,4,5,1
,0]%%}
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9484

2.3.3331 Giac [F(-2)]

Exception generated.

$$\int \frac{3x^2 + 3x^3 - x^4 + e^{e^5}(-3 - 3x - 6x^3 - 6x^4 + 2x^5) + e^{2e^5}(6x + 3x^2 + 3x^4 + 3x^5 - x^6)}{-4x^2 - x^3 + x^4 + e^{e^5}(3x + 8x^3 + 2x^4 - 2x^5) + e^{2e^5}(-3x^2 - 4x^4 - x^5 + x^6)} dx$$

= Exception raised: TypeError

```
[In] integrate(((x^6+3*x^5+3*x^4+3*x^2+6*x)*exp(exp(5))^2+(2*x^5-6*x^4-6*x^3-3*x-3)*exp(exp(5))-x^4+3*x^3+3*x^2)/((x^6-x^5-4*x^4-3*x^2)*exp(exp(5))^2+(-2*x^5+2*x^4+8*x^3+3*x)*exp(exp(5))+x^4-x^3-4*x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[undef,0
.0,undef,undef,undef,undef]proot error [undef,0.0,undef,undef,undef,undef]p
root e
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9515

2.3.3332 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{e^{21+x}-3x^2-e^x x^2}{3x+e^x x}}(e^{21+x}(18+6e^x-18x)+54x^2+36e^x x^2+6e^{2x} x^2)+e^{\frac{2(e^{21+x}-3x^2-e^x x^2)}{3x+e^x x}}(-18x^2-12e^x x^2-9x^2+6e^x x^2+e^{2x} x^2)}{9x^2+6e^x x^2+e^{2x} x^2}$$

= Exception raised: TypeError

```
[In] integrate(((((-2*exp(x)+6*x-6)*exp(x+21)-2*exp(x)^2*x^2-12*exp(x)*x^2-18*x^2)*exp((exp(x+21)-exp(x)*x^2-3*x^2)/(exp(x)*x+3*x))^2+((6*exp(x)-18*x+18)*exp(x+21)+6*exp(x)^2*x^2+36*exp(x)*x^2+54*x^2)*exp((exp(x+21)-exp(x)*x^2-3*x^2)/(exp(x)*x+3*x)))/(exp(x)^2*x^2+6*exp(x)*x^2+9*x^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-7776, [2, 0, 26, 24]%%}+%%{-606528, [2, 0, 25, 24]%%}+%%{-227448
00, [2,
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9602

2.3.3333 Giac [F(-2)]

Exception generated.

$$\int \frac{36x^3 + 24x^5 + 4e^{2x}x^5 + 4x^7 + e^x(-24x^4 - 8x^6) + e^{2x+2e^{-\frac{12+5e^x x - 5x^2}{-3+e^x x - x^2}}} x^2 \left(18 + 12x^2 + 2e^{2x}x^2 + 2x^4 + e^x\right)}{\dots}$$

= Exception raised: RuntimeError

```
[In] integrate((((4*exp(x)^2*x^3+(-8*x^4-6*x^3-30*x^2)*exp(x)+4*x^5+36*x^3+36*x)
*exp((5*exp(x)*x-5*x^2-12)/(exp(x)*x-x^2-3))+2*exp(x)^2*x^2+(-4*x^3-12*x)*e
xp(x)+2*x^4+12*x^2+18)*exp(x^2*exp((5*exp(x)*x-5*x^2-12)/(exp(x)*x-x^2-3))+
x)^2+((-4*x^5*exp(x)^2+(8*x^6+6*x^5+30*x^4)*exp(x)-4*x^7-36*x^5-36*x^3)*exp
((5*exp(x)*x-5*x^2-12)/(exp(x)*x-x^2-3))+(-2*x^4-4*x^3)*exp(x)^2+(4*x^5+8*x
^4+12*x^3+24*x^2)*exp(x)-2*x^6-4*x^5-12*x^4-24*x^3-18*x^2-36*x)*exp(x^2*exp
((5*exp(x)*x-5*x^2-12)/(exp(x)*x-x^2-3))+x)+4*x^5*exp(x)^2+(-8*x^6-24*x^4)*
exp(x)+4*x^7+24*x^5+36*x^3)/(exp(x)^2*x^2+(-2*x^3-6*x)*exp(x)+x^4+6*x^2+9),
x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{16,[0,
2,10,11]%%}%+%%{-128,[0,2,9,12]%%}%+%%{-48,[0,2,9,11]%%}%+%%{-432,[0,2,9
,10]%%}%+

```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9654

2.3.3334 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{16x-81x^2-24e^{\frac{1}{5}(5x+\log(5))}x^2+9e^{\frac{2}{5}(5x+\log(5))}x^3}{16-24e^{\frac{1}{5}(5x+\log(5))}x+9e^{\frac{2}{5}(5x+\log(5))}x^2}} \left(\frac{-64 + 648x - 108e^{\frac{2}{5}(5x+\log(5))}x^2 + 27e^{\frac{3}{5}(5x+\log(5))}x^3 + e^{\frac{1}{5}(5x+\log(5))}}{-64 + 144e^{\frac{1}{5}(5x+\log(5))}x - 108e^{\frac{2}{5}(5x+\log(5))}x^2 + 27e^{\frac{3}{5}(5x+\log(5))}x^3} \right)$$

= Exception raised: TypeError

```
[In] integrate((27*x^3*exp(1/5*log(5)+x)^3-108*x^2*exp(1/5*log(5)+x)^2+(486*x^3+
144*x)*exp(1/5*log(5)+x)+648*x-64)*exp((9*x^3*exp(1/5*log(5)+x)^2-24*x^2*ex
```

```
p(1/5*log(5)+x)-81*x^2+16*x)/(9*x^2*exp(1/5*log(5)+x)^2-24*x*exp(1/5*log(5)+x)+16))/(27*x^3*exp(1/5*log(5)+x)^3-108*x^2*exp(1/5*log(5)+x)^2+144*x*exp(1/5*log(5)+x)-64),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-51257812500000000,[2,12,0,1,0]%%}+%%{12301875000000000,[2
,11,1,
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9667

2.3.3335 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{2}{\log(4-x)}} \left(40x^2 + 40x^3 + 10x^4 + e^{\frac{8}{2+x} + \frac{2}{\log(4-x)}} (-32 + 8x) \log^2(4-x) + (-160x - 120x^2 + 10x^4) \log^2(4-x) \right)}{(-16 - 12x + x^3) \log^2(4-x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((8*x-32)*exp(4/(2+x))^2*log(-x+4)^2*exp(2/log(-x+4)))+(10*x^4-120*x^2-160*x)*log(-x+4)^2+10*x^4+40*x^3+40*x^2)/(x^3-12*x-16)/log(-x+4)^2/exp(2/log(-x+4)),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);;OUTPUT:Unable to divide, perhaps due to roun
ding error%%{8,[0,19]%%}+%%{64,[0,18]%%}+%%{-288,[0,17]%%}+%%{-4224,[0,16]
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9685

2.3.3336 Giac [F(-2)]

Exception generated.

$$\int \frac{e^5 \left(3x - \frac{(-15+3x)\log(3+\log(x))}{e^5} \right)}{\log(3+\log(x))} \left(-3 + (9 + 3\log(x))\log(3 + \log(x)) - \frac{(9+3\log(x))\log^2(3+\log(x))}{e^5} \right)}{(3 + \log(x))\log^2(3 + \log(x))} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((3*log(x)+9)*log(3+log(x))*exp(log(-log(3+log(x))))-5)+(3*log(x)+
9)*log(3+log(x))-3)*exp(((3*x-15)*exp(log(-log(3+log(x))))-5)+3*x)/exp(log(-
log(3+log(x))))-5)/(3+log(x))/log(3+log(x))/exp(log(-log(3+log(x))))-5),x, a
lgorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{27,[0,
1,0,3]%%}%+%%{81,[0,0,0,3]%%}% / %%{27,[0,2,0,3]%%}%+%%{162,[0,1,0,3]%%}%
}+%%{243
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9697

2.3.3337 Giac [F(-2)]

Exception generated.

$$\int \frac{e^5(-e^{21} - 3x^2)\log(3)}{(e^{21}x + x^3)^2} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate((-exp(21)-3*x^2)*exp(log(log(3)/(x*exp(21)+x^3))+5)/(x*exp(21)+x^
3),x, algorithm="giac")
```

```
[Out] Exception raised: NotImplementedError >> unable to parse Giac output: -(-2*
exp(5)*ln(3)*exp(1)^21+6*exp(5)*ln(3)*exp(21))*1/2/(exp(1)^21*exp(21)-exp(2
1)^2)/exp(21/2)*atan(sageVARx/exp(21/2))+4*exp(5)*ln(3)*1/2/(exp(1)^21-exp(
21))/exp(1)^10/e
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9708

2.3.3338 Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{\log(-4+e^{2x+x+\log(5+x)})}} \left(-5 + e^{e^{2x+x}}(-25 + e^{2x}(-50 - 10x) - 5x) \right)}{(-20 - 4x + e^{e^{2x+x}}(5+x) + (5+x)\log(5+x)) \log^2(-4 + e^{e^{2x+x}} + \log(5+x))} dx$$

= Exception raised: RuntimeError

```
[In] integrate(((((-10*x-50)*exp(2*x)-5*x-25)*exp(exp(2*x)+x)-5)*exp(5/log(exp(exp(2*x)+x)+log(5+x)-4)))/((5+x)*exp(exp(2*x)+x)+(5+x)*log(5+x)-4*x-20)/log(exp(exp(2*x)+x)+log(5+x)-4)^2,x, algorithm="giac")
```

```
[Out] Exception raised: RuntimeError >> an error occurred running a Giac command:
INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{91125000,[0,7,0,3,10]%%}+%%{3189375000,[0,7,0,3,9]%%}+%%{47840625000,[0,7,0,3,8]%%}+%

```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9718

2.3.3339 Giac [F(-2)]

Exception generated.

$$\int \frac{(e^{10} - e^5 x) \log^2(e^{10} - 2e^5 x + x^2) + e^{\frac{4x^3}{e^5 \log(e^{10} - 2e^5 x + x^2)}} (8x^3 + (12e^5 x^2 - 12x^3) \log(e^{10} - 2e^5 x + x^2))}{(e^{10} - e^5 x) \log^2(e^{10} - 2e^5 x + x^2)} dx$$

= Exception raised: TypeError

```
[In] integrate((((12*x^2*exp(5)-12*x^3)*log(exp(5)^2-2*x*exp(5)+x^2)+8*x^3)*exp(4*x^3/exp(5)/log(exp(5)^2-2*x*exp(5)+x^2))+((exp(5)^2-x*exp(5))*log(exp(5)^2-2*x*exp(5)+x^2)^2)/(exp(5)^2-x*exp(5))/log(exp(5)^2-2*x*exp(5)+x^2)^2,x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to roun
ding error%%{-196608,[1,22,6]%%}+%%{786432,[1,21,7]%%}+%%{-1179648,[1,
20,8]%
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9775

2.3.3340 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{-1+25x+16x^3+10e^x x^3+100x^4}{10x^3+5e^x x^3}} \frac{(6-100x+200x^4+e^x(3-49x-25x^2+104x^4-100x^5))}{20x^4+20e^x x^4+5e^{2x} x^4} dx$$

= Exception raised: TypeError

```
[In] integrate(((−100*x^5+104*x^4−25*x^2−49*x+3)*exp(x)+200*x^4−100*x+6)*exp((10
*exp(x)*x^3+100*x^4+16*x^3+25*x−1)/(5*exp(x)*x^3+10*x^3))/(5*exp(x)^2*x^4+2
0*exp(x)*x^4+20*x^4),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
ding error%%{1000000000000,[1,29]%%}+%%{-2200000000000,[1,28]%%}+%%{13
360000
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9991

2.3.3341 Giac [F(-2)]

Exception generated.

$$\int e^{\frac{-2x+(8+3x-2(i\pi+\log(-1+2e))\log(x))\log(x)}{2\log(x)}} \frac{(2-2\log(x)+3\log^2(x))}{-6\log^2(x)+2e^{\frac{-2x+(8+3x-2(i\pi+\log(-1+2e))\log(x))\log(x)}{2\log(x)}} \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((3*log(x)^2-2*log(x)+2)*exp(1/2*((-2*log(-2*exp(1)+1)+3*x+8)*log(
x)-2*x)/log(x))/(2*log(x)^2*exp(1/2*((-2*log(-2*exp(1)+1)+3*x+8)*log(x)-2*x
)/log(x))-6*log(x)^2),x, algorithm="giac")
```

```
[Out] Exception raised: TypeError >> an error occurred running a Giac command:INP
UT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to roun
```

ding error%%{-128,[0,11,0]%%} / %%{256,[0,11,0]%%} Error: Bad Argument Value

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 10088

2.4 Sympy Exceptions

Percentage of integrals which generated an exception is 0.957 %

2.4.1 Sympy [F(-2)]

Exception generated.

$$\int a^x b^{-x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(a**x/(b**x),x)
```

```
[Out] Exception raised: TypeError >> Invalid NaN comparison
```

input file name 0_Independent_test_suites/Hearn_Problems.txt

Test file number 5

Integral number in file 160

2.4.2 Sympy [F(-2)]

Exception generated.

$$\int a^{-x} b^{-x} (a^x - b^x)^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a**x-b**x)**2/(a**x)/(b**x),x)
```

```
[Out] Exception raised: TypeError >> Invalid NaN comparison
```

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 495

2.4.3 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(x)}{(1+x^2)^2} dx = \text{Exception raised: RecursionError}$$

```
[In] integrate(x**2*atan(x)/(x**2+1)**2,x)
```

```
[Out] Exception raised: RecursionError >> maximum recursion depth exceeded  
input file name 0_Independent_test_suites/Timofeev_Problems.txt
```

```
Test file number 10
```

```
Integral number in file 673
```

2.4.4 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(x)}{(1+x^2)^2} dx = \text{Exception raised: RecursionError}$$

```
[In] integrate(x**3*atan(x)/(x**2+1)**2,x)
```

```
[Out] Exception raised: RecursionError >> maximum recursion depth exceeded while  
calling a Python object
```

```
input file name 0_Independent_test_suites/Timofeev_Problems.txt
```

```
Test file number 10
```

```
Integral number in file 674
```

2.4.5 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(x)}{(1+x^2)^2} dx = \text{Exception raised: RecursionError}$$

```
[In] integrate(x**5*atan(x)/(x**2+1)**2,x)
```

```
[Out] Exception raised: RecursionError >> maximum recursion depth exceeded in com  
parison
```

input file name 0_Independent_test_suites/Timofeev_Problems.txt

Test file number 10

Integral number in file 675

2.4.6 Sympy [F(-2)]

Exception generated.

$$\int \left(\frac{1}{\sqrt{2}(1+x)^2\sqrt{-i+x^2}} + \frac{1}{\sqrt{2}(1+x)^2\sqrt{i+x^2}} \right) dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/2/(1+x)**2*2**(1/2)/(-I+x**2)**(1/2)+1/2/(1+x)**2*2**(1/2)/(I+x**2)**(1/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real I
```

input file name 0_Independent_test_suites/Welz_Problems.txt

Test file number 11

Integral number in file 11

2.4.7 Sympy [F(-2)]

Exception generated.

$$\int (a+bx)^m(c+dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x-^m-c+d_x-^n.txt

Test file number 13

Integral number in file 1845

2.4.8 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-4+n}(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**(-4+n)/((d*x+c)**n), x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1859

2.4.9 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-3+n}(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**(-3+n)/((d*x+c)**n), x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1860

2.4.10 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-2+n}(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**(-2+n)/((d*x+c)**n), x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```


input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1861

2.4.11 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**n/((d*x+c)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1863

2.4.12 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{1+n} (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**(1+n)/((d*x+c)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1864

2.4.13 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{2+n}(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**(2+n)/((d*x+c)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1865

2.4.14 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d*x+c)**n/((b*x+a)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1866

2.4.15 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-2-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**(-2-n)*(d*x+c)**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1868

2.4.16 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-3-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**(-3-n)*(d*x+c)**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1869

2.4.17 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-4-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**(-4-n)*(d*x+c)**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1870

2.4.18 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-5-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**(-5-n)*(d*x+c)**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1871

2.4.19 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**n/((d*x+c)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1872

2.4.20 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n(c + dx)^{-2-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**n*(d*x+c)**(-2-n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1874

2.4.21 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-3-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**n*(d*x+c)**(-3-n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1875

2.4.22 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-4-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**n*(d*x+c)**(-4-n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_xⁿ.txt

Test file number 13

Integral number in file 1876

2.4.23 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-5-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**n*(d*x+c)**(-5-n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1877

2.4.24 Sympy [F(-2)]

Exception generated.

$$\int \left(\frac{d(a + bx)}{-bc + ad} \right)^m (c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*(b*x+a)/(a*d-b*c))**m*(d*x+c)**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.2-a+b_x^m-c+d_x^n.txt

Test file number 13

Integral number in file 1890

2.4.25 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^m}{(a + bx)(c + dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**m/(b*x+a)/(d*x+c)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 383

2.4.26 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-1 + \frac{1}{x}} \sqrt{\frac{1}{x}} \sqrt{x}}{\sqrt{1+x}} dx = \text{Exception raised: RecursionError}$$

[In] integrate((-1+1/x)**(1/2)*(1/x)**(1/2)*x**(1/2)/(1+x)**(1/2),x)

[Out] Exception raised: RecursionError >> maximum recursion depth exceeded in comparison

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 870

2.4.27 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^n}{x^2(c+dx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**n/x**2/(d*x+c),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 941

2.4.28 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^n}{(c+dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate(x**3*(b*x+a)**n/(d*x+c)**2,x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 942

2.4.29 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^n}{(c+dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate(x**2*(b*x+a)**n/(d*x+c)**2,x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x-^m-c+d_x-ⁿ-e+f_x-^p.txt

Test file number 14

Integral number in file 943

2.4.30 Sympy [F(-2)]

Exception generated.

$$\int \frac{(bx)^m(c+dx)^n}{e+fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate((b*x)**m*(d*x+c)**n/(f*x+e),x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^{m-c}+d_x^{n-e}+f_x^p.txt

Test file number 14

Integral number in file 954

2.4.31 Sympy [F(-2)]

Exception generated.

$$\int x^2(a+bx)^n(c+dx)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**2*(b*x+a)**n*(d*x+c)**p,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^{m-c}+d_x^{n-e}+f_x^p.txt

Test file number 14

Integral number in file 958

2.4.32 Sympy [F(-2)]

Exception generated.

$$\int x(a+bx)^n(c+dx)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x*(b*x+a)**n*(d*x+c)**p,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^{m-c}+d_x^{n-e}+f_x^p.txt

Test file number 14

Integral number in file 959

2.4.33 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate((b*x+a)**n*(d*x+c)**p,x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 960

2.4.34 Sympy [F(-2)]

Exception generated.

$$\int x^3 (a + bx)^n (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate(x**3*(b*x+a)**n/((d*x+c)**n),x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 970

2.4.35 Sympy [F(-2)]

Exception generated.

$$\int x^2 (a + bx)^n (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate(x**2*(b*x+a)**n/((d*x+c)**n),x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 971

2.4.36 Sympy [F(-2)]

Exception generated.

$$\int x(a+bx)^n(c+dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x*(b*x+a)**n/((d*x+c)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 972

2.4.37 Sympy [F(-2)]

Exception generated.

$$\int (a+bx)^n(c+dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**n/((d*x+c)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 973

2.4.38 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^n(c+dx)^{-n}}{x^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**n/x**3/((d*x+c)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^-m-c+d_x^-n-e+f_x^-p.txt

Test file number 14

Integral number in file 976

2.4.39 Sympy [F(-2)]

Exception generated.

$$\int x^m(a+bx)^{1+n}(c+dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(x**m*(b*x+a)**(1+n)*(d*x+c)**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^-m-c+d_x^-n-e+f_x^-p.txt

Test file number 14

Integral number in file 995

2.4.40 Sympy [F(-2)]

Exception generated.

$$\int (a+bx)(c+dx)^n(e+fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(d*x+c)**n/((f*x+e)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3047

2.4.41 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-1+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)*(d*x+c)**(-1+n)/((f*x+e)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3048

2.4.42 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-2+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)*(d*x+c)**(-2+n)/((f*x+e)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3049

2.4.43 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-3+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(d*x+c)**(-3+n)/((f*x+e)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3050

2.4.44 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-4+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(d*x+c)**(-4+n)/((f*x+e)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3051

2.4.45 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-5+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(d*x+c)**(-5+n)/((f*x+e)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3052

2.4.46 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)*(f*x+e)**n/((b*x+a)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3053

2.4.47 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-1+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)*(f*x+e)**(-1+n)/((b*x+a)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3054

2.4.48 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-2+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d*x+c)*(f*x+e)**(-2+n)/((b*x+a)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3055

2.4.49 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-3+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d*x+c)*(f*x+e)**(-3+n)/((b*x+a)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3056

2.4.50 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-4+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d*x+c)*(f*x+e)**(-4+n)/((b*x+a)**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```


input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3057

2.4.51 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-5+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)*(f*x+e)**(-5+n)/((b*x+a)**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3058

2.4.52 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m(c + dx)^{-m}(e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(f*x+e)**3/((d*x+c)**m),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3061

2.4.53 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(f*x+e)**2/((d*x+c)**m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3062

2.4.54 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(f*x+e)/((d*x+c)**m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3063

2.4.55 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m/((d*x+c)**m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3064

2.4.56 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m(c+dx)^{-m}}{e+fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m/((d*x+c)**m)/(f*x+e),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3065

2.4.57 Sympy [F(-2)]

Exception generated.

$$\int (a+bx)^m(c+dx)^{-1-m}(e+fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-1-m)*(f*x+e),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3073

2.4.58 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-2-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-2-m)*(f*x+e)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3081

2.4.59 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-2-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-2-m)*(f*x+e),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3082

2.4.60 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-2-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-2-m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3083

2.4.61 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-3-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-3-m)*(f*x+e)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3090

2.4.62 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-3-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-3-m)*(f*x+e),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3091

2.4.63 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-3-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-3-m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3092

2.4.64 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-4-m)*(f*x+e)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3097

2.4.65 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-4-m)*(f*x+e)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3098

2.4.66 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-4-m)*(f*x+e),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3099

2.4.67 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-4-m),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3100

2.4.68 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx)^4 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e)**4,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3105

2.4.69 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3106

2.4.70 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```


input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3107

2.4.71 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3108

2.4.72 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-5-m),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3109

2.4.73 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(1-m)*(f*x+e)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3112

2.4.74 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(1-m)*(f*x+e)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3113

2.4.75 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(1-m)*(f*x+e),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3114

2.4.76 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(1-m),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3115

2.4.77 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{1-m}}{(e + fx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(1-m)/(f*x+e)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3117

2.4.78 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{2-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(2-m)*(f*x+e)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3123

2.4.79 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{2-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(2-m)*(f*x+e)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3124

2.4.80 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{2-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(2-m)*(f*x+e),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3125

2.4.81 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{2-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(2-m),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3126

2.4.82 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{2-m}}{(e + fx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(2-m)/(f*x+e)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3128

2.4.83 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m(c+dx)^{2-m}}{(e+fx)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(2-m)/(f*x+e)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3129

2.4.84 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m(c+dx)^{3-m}}{(e+fx)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(3-m)/(f*x+e)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3136

2.4.85 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{1-n}(c+dx)^{1+n}}{bc+ad+2bdx} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**(1-n)*(d*x+c)**(1+n)/(2*b*d*x+a*d+b*c),x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3137

2.4.86 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{1-n}(c+dx)^{1+n}}{(bc+ad+2bdx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**(1-n)*(d*x+c)**(1+n)/(2*b*d*x+a*d+b*c)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3138

2.4.87 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m(c+dx)^{2-m}}{bc+ad+2bdx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(2-m)/(2*b*d*x+a*d+b*c),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3141

2.4.88 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m(c+dx)^{2-m}}{(bc+ad+2bdx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(2-m)/(2*b*d*x+a*d+b*c)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 3142

2.4.89 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m(c+dx)^{2-m}}{(bc+ad+2bdx)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(2-m)/(2*b*d*x+a*d+b*c)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-
a+b_x^m-c+d_x^n-e+f_x^p.txt
```

Test file number 14

Integral number in file 3143

2.4.90 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m(c+dx)^{2-m}}{(bc+ad+2bdx)^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(2-m)/(2*b*d*x+a*d+b*c)**4,x)
```


[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3144

2.4.91 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**n*(f*x+e)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3160

2.4.92 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**n*(f*x+e),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_xⁿ-e+f_x^p.txt

Test file number 14

Integral number in file 3161

2.4.93 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.3-a+b_x^m-c+d_x^n-e+f_x^p.txt

Test file number 14

Integral number in file 3162

2.4.94 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^4(e + fx)^n}{(a + bx)(c + dx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**4*(f*x+e)**n/(b*x+a)/(d*x+c),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 112

2.4.95 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m}{(c + dx)(e + fx)(g + hx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m/(d*x+c)/(f*x+e)/(h*x+g),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_xⁿ-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 122

2.4.96 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**n*(f*x+e)*(h*x+g),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_xⁿ-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 124

2.4.97 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(1-m)*(f*x+e)*(h*x+g),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_xⁿ-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 125

2.4.98 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(f*x+e)*(h*x+g)/((d*x+c)**m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 126

2.4.99 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-1-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-1-m)*(f*x+e)*(h*x+g),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 127

2.4.100 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-2-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-2-m)*(f*x+e)*(h*x+g),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_xⁿ-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 128

2.4.101 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-3-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-3-m)*(f*x+e)*(h*x+g), x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_xⁿ-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 129

2.4.102 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**(-4-m)*(f*x+e)*(h*x+g), x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_xⁿ-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 130

2.4.103 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e)*(h*x+g),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 131

2.4.104 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^2 (c + dx)^{-4-m} (e + fx)^m (g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**2*(d*x+c)**(-4-m)*(f*x+e)**m*(h*x+g),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 133

2.4.105 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-4-m} (e + fx)^m (g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(d*x+c)**(-4-m)*(f*x+e)**m*(h*x+g),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 134

2.4.106 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^{-4-m}(e + fx)^m(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**(-4-m)*(f*x+e)**m*(h*x+g),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 135

2.4.107 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m(A + Bx)(c + dx)^{-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(B*x+A)/((d*x+c)**m)/(f*x+e),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_x^n-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 137

2.4.108 Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(c + dx)^n(e + fx)^p}{\sqrt{a + bx}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((B*x+A)*(d*x+c)**n*(f*x+e)**p/(b*x+a)**(1/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.4-a+b_x^m-c+d_xⁿ-e+f_x^p-g+h_x^q.txt

Test file number 15

Integral number in file 138

2.4.109 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^n (A + Bx + Cx^2 + Dx^3)}{(a + bx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d*x+c)**n*(D*x**3+C*x**2+B*x+A)/(b*x+a)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-x-a+b_x^m-c+d_xⁿ.txt

Test file number 16

Integral number in file 30

2.4.110 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (A + Bx)(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)**m*(B*x+A)*(d*x+c)**n,x)
```


[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-
x-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 16

Integral number in file 32

2.4.111 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (A + Bx + Cx^2) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**n*(C*x**2+B*x+A), x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-
x-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 16

Integral number in file 33

2.4.112 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (A + Bx + Cx^2 + Dx^3) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)**m*(d*x+c)**n*(D*x**3+C*x**2+B*x+A), x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/1.1.1.5_P-
x-a+b_x-^m-c+d_x-ⁿ.txt

Test file number 16

Integral number in file 34

2.4.113 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(a+b*x**n)/(c+d*x**n)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26Integral number in file 303**2.4.114 Sympy [F(-2)]**

Exception generated.

$$\int \frac{1}{(a + bx^n)(c + dx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(a+b*x**n)/(c+d*x**n)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26Integral number in file 304**2.4.115 Sympy [F(-2)]**

Exception generated.

$$\int \frac{1}{(a + bx^n)^2(c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 309

2.4.116 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)^2 (c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(a+b*x**n)**2/(c+d*x**n)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 310

2.4.117 Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*x**n)**p*(c+d*x**n)**q,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 312

2.4.118 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^p}{c + dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*x**n)**p/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26Integral number in file 317**2.4.119 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(a + bx^n)^p}{(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*x**n)**p/(c+d*x**n)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26Integral number in file 318**2.4.120 Sympy [F(-2)]**

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^{-1-\frac{1}{n}-p} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*x**n)**p*(c+d*x**n)**(-1-1/n-p),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 320

2.4.121 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{-1/n}}{a + bx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(a+b*x**n)/((c+d*x**n)**(1/n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 325

2.4.122 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{1-\frac{1}{n}}}{(a + bx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((c+d*x**n)**(1-1/n)/(a+b*x**n)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 326

2.4.123 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{2-\frac{1}{n}}}{(a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((c+d*x**n)**(2-1/n)/(a+b*x**n)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26Integral number in file 327**2.4.124 Sympy [F(-2)]**

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^{-2-\frac{1}{n}-p} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*x**n)**p*(c+d*x**n)**(-2-1/n-p),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-
a+b_x^n-p-c+d_x^n-q.txt

Test file number 26Integral number in file 328**2.4.125 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(c + dx^n)^{-1-\frac{1}{n}}}{a + bx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((c+d*x**n)**(-1-1/n)/(a+b*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 333

2.4.126 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{-1/n}}{(a + bx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(a+b*x**n)**2/((c+d*x**n)**(1/n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 334

2.4.127 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{1-\frac{1}{n}}}{(a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((c+d*x**n)**(1-1/n)/(a+b*x**n)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 335

2.4.128 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{2-\frac{1}{n}}}{(a + bx^n)^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((c+d*x**n)**(2-1/n)/(a+b*x**n)**4,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 336

2.4.129 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-c + dx}\sqrt{c + dx}(a + bx^2)}{x^4} dx = \text{Exception raised: MellinTransformStripError}$$

[In] integrate((b*x**2+a)*(d*x-c)**(1/2)*(d*x+c)**(1/2)/x**4,x)

[Out] Exception raised: MellinTransformStripError >> Pole inside critical strip?

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 347

2.4.130 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^{2n})^p}{(a - bx^n)(a + bx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((c+d*x**(2*n))**p/(a-b*x**n)/(a+b*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.3-a+b_x^n-p-c+d_x^n-q.txt

Test file number 26

Integral number in file 384

2.4.131 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^n) (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/x**3/(a+b*x**n)/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^-m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 1031

2.4.132 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^-m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 1032

2.4.133 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**2/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x-^n-^p-c+d_x-^n-^q.txt

Test file number 27Integral number in file 1033**2.4.134 Sympy [F(-2)]**

Exception generated.

$$\int \frac{x}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x-^n-^p-c+d_x-^n-^q.txt

Test file number 27Integral number in file 1034**2.4.135 Sympy [F(-2)]**

Exception generated.

$$\int \frac{1}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 1035

2.4.136 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^n)^2(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/x/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 1036

2.4.137 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx^n)^2(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/x**2/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_xⁿ-^p-c+d_xⁿ-^q.txt

Test file number 27

Integral number in file 1037

2.4.138 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(1/x**3/(a+b*x**n)**2/(c+d*x**n), x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x-ⁿ-^p-c+d_x-ⁿ-^q.txt

Test file number 27

Integral number in file 1038

2.4.139 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+2n}}{(a + bx^n)(c + dx^n)} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(x**(-1+2*n)/(a+b*x**n)/(c+d*x**n), x)
```

```
[Out] Exception raised: NotImplementedError >> no valid subset found
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x-^m-a+b_x-ⁿ-^p-c+d_x-ⁿ-^q.txt

Test file number 27

Integral number in file 1042

2.4.140 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+2n}}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(x**(-1+2*n)/(a+b*x**n)**2/(c+d*x**n), x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m-a}+b_xⁿ^{-p-c}+d_xⁿ^{-q}.txt

Test file number 27

Integral number in file 1043

2.4.141 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+2n}}{(a+bx^n)^3(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**(-1+2*n)/(a+b*x**n)**3/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m-a}+b_xⁿ^{-p-c}+d_xⁿ^{-q}.txt

Test file number 27

Integral number in file 1044

2.4.142 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+3n}}{(a+bx^n)(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**(-1+3*n)/(a+b*x**n)/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^{-m-a}+b_xⁿ^{-p-c}+d_xⁿ^{-q}.txt

Test file number 27

Integral number in file 1048

2.4.143 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+3n}}{(a+bx^n)^2(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(x**(-1+3*n)/(a+b*x**n)**2/(c+d*x**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^-m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 1049

2.4.144 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+3n}}{(a+bx^n)^3(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(x**(-1+3*n)/(a+b*x**n)**3/(c+d*x**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.4-e_x^-m-a+b_x^n-p-c+d_x^n-q.txt

Test file number 27

Integral number in file 1050

2.4.145 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m(A+Bx^n)}{(a+bx^n)(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n),x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-g_x^m-a+b_x^n-p-c+d_x^n-q-e+f_x^n-r.txt

Test file number 28

Integral number in file 26

2.4.146 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**2/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-g_x^m-a+b_x^n-p-c+d_x^n-q-e+f_x^n-r.txt

Test file number 28

Integral number in file 27

2.4.147 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**3/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-g_x^m-a+b_x^n-p-c+d_x^n-q-e+f_x^n-r.txt

Test file number 28

Integral number in file 28

2.4.148 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-
g_x^m-a+b_x^n-p-c+d_x^n-q-e+f_x^n-r.txt
```

Test file number 28

Integral number in file 33

2.4.149 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**2/(c+d*x**n)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

```
input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-
g_x^m-a+b_x^n-p-c+d_x^n-q-e+f_x^n-r.txt
```

Test file number 28

Integral number in file 34

2.4.150 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n)**3,x)
```


[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-g_x^{m-a}+b_xⁿ^{p-c}+d_xⁿ^{q-e}+f_xⁿ^r.txt

Test file number 28

Integral number in file 39

2.4.151 Sympy [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)*(c+d*x**n)**q,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-g_x^{m-a}+b_xⁿ^{p-c}+d_xⁿ^{q-e}+f_xⁿ^r.txt

Test file number 28

Integral number in file 41

2.4.152 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)/(c+d*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-g_x^{m-a}+b_xⁿ^{p-c}+d_xⁿ^{q-e}+f_xⁿ^r.txt

Test file number 28

Integral number in file 43

2.4.153 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)/(c+d*x**n)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.6-g_x-^m-a+b_x-ⁿ-^p-c+d_x-ⁿ-^q-e+f_x-ⁿ-^r.txt

Test file number 28

Integral number in file 44

2.4.154 Sympy [F(-2)]

Exception generated.

$$\int (hx)^{-1-n-np} (a + bx^n)^p (c + dx^n)^p (ac - bdx^{2n}) dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((h*x)**(-n*p-n-1)*(a+b*x**n)**p*(c+d*x**n)**p*(a*c-b*d*x**(2*n)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-x-c_x-^m-a+b_x-ⁿ-^p.txt

Test file number 29

Integral number in file 592

2.4.155 Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^p \left(e + \frac{(bc + ad)e(1 + n + np)x^n}{ac} + \frac{bde(1 + 2n + 2np)x^{2n}}{ac} \right) dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((a+b*x**n)**p*(c+d*x**n)**p*(e+(a*d+b*c)*e*(n*p+n+1)*x**n/a/c+b*d
*e*(2*n*p+2*n+1)*x**(2*n)/a/c),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 593

2.4.156 Sympy [F(-2)]

Exception generated.

$$\int (hx)^m (a + bx^n)^p (c + dx^n)^p \left(e + \frac{(bc + ad)e(1 + m + n + np)x^n}{ac(1 + m)} + \frac{bde(1 + m + 2n + 2np)x^{2n}}{ac(1 + m)} \right) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((h*x)**m*(a+b*x**n)**p*(c+d*x**n)**p*(e+(a*d+b*c)*e*(n*p+m+n+1)*x
**n/a/c/(1+m)+b*d*e*(2*n*p+m+2*n+1)*x**(2*n)/a/c/(1+m)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/1.1.3.8_P-
x-c_x^m-a+b_x^n^p.txt

Test file number 29

Integral number in file 594

2.4.157 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(bx^{1-2m} + ax^m)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(1/(b*x**(1-2*m)+a*x**m)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/1.1.4.2-c_x-[^]m-a_x-[^]j+b_x-[^]n-[^]p.txt

Test file number 30

Integral number in file 337

2.4.158 Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^p (cd^2 + 2cdex + ce^2x^2)^{-p} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((e*x+d)**p/((c*e**2*x**2+2*c*d*e*x+c*d**2)**p),x)
```

```
[Out] Exception raised: TypeError >> Invalid NaN comparison
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-[^]m-a+b_x+c_x-[^]2-[^]p.txt

Test file number 33

Integral number in file 1099

2.4.159 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**12,x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 1586

2.4.160 Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (a^2 + 2abx + b^2x^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(5/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 1737

2.4.161 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m}{(a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(3/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^m-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 1741

2.4.162 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^m}{(a^2+2abx+b^2x^2)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(5/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1742

2.4.163 Sympy [F(-2)]

Exception generated.

$$\int (d+ex)^m (a^2+2abx+b^2x^2)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**p,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 1743

2.4.164 Sympy [F(-2)]

Exception generated.

$$\int (d+ex)^m (a^2+2abx+b^2x^2)^{5+p} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(5+p),x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^{-m}-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 1756

2.4.165 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^m}{(ade+(cd^2+ae^2)x+cde x^2)^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x+d)**m/(a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**4,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^{-m}-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 2090

2.4.166 Sympy [F(-2)]

Exception generated.

$$\int (d+ex)^m (ade+(cd^2+ae^2)x+cde x^2)^{-m} dx = \text{Exception raised: TypeError}$$

[In] integrate((e*x+d)**m/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x^{-m}-a+b_x+c_x²-^p.txt

Test file number 33

Integral number in file 2105

2.4.167 Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (a + bx + cx^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(c*x**2+b*x+a)**(5/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.2-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 33

Integral number in file 2555

2.4.168 Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((B*x+A)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**12,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 1756

2.4.169 Sympy [F(-2)]

Exception generated.

$$\int (A + Bx)(d + ex)^m (a^2 + 2abx + b^2x^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((B*x+A)*(e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(5/2),x)
```


[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1888

2.4.170 Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^m}{(a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((B*x+A)*(e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(3/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1892

2.4.171 Sympy [F(-2)]

Exception generated.

$$\int (A + Bx)(d + ex)^m (a^2 + 2abx + b^2x^2)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((B*x+A)*(e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**p,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 1893

2.4.172 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**12,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2009

2.4.173 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{13}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**13,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2010

2.4.174 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{17}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**17,x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2014

2.4.175 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(d + ex)^m (a^2 + 2abx + b^2x^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)*(e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(5/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2151

2.4.176 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^m}{(a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((b*x+a)*(e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(3/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x^m+g_x-a+b_x+c_x²-^p.txt

Test file number 34

Integral number in file 2155

2.4.177 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^m}{(a^2+2abx+b^2x^2)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*x+a)*(e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(5/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2156

2.4.178 Sympy [F(-2)]

Exception generated.

$$\int (d+ex)^m(f+gx)(cd^2-bde-be^2x - ce^2x^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(g*x+f)*(-c*e**2*x**2-b*e**2*x-b*d*e+c*d**2)**(5/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2285

2.4.179 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^m(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(g*x+f)/(-c*e**2*x**2-b*e**2*x-b*d*e+c*d**2)**(5/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.3-d+e_x-^m-f+g_x-a+b_x+c_x^2-^p.txt

Test file number 34

Integral number in file 2290

2.4.180 Sympy [F(-2)]

Exception generated.

$$\int \frac{(gx)^m(d^2 - e^2x^2)^{5/2}}{(d+ex)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((g*x)**m*(-e**2*x**2+d**2)**(5/2)/(e*x+d)**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 232

2.4.181 Sympy [F(-2)]

Exception generated.

$$\int \frac{(gx)^m}{(d+ex)^2(d^2 - e^2x^2)^{7/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((g*x)**m/(e*x+d)**2/(-e**2*x**2+d**2)**(7/2),x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^{-m}+g_x⁻ⁿ+a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 238

2.4.182 Sympy [F(-2)]

Exception generated.

$$\int \frac{(gx)^m}{(d+ex)^3 (d^2 - e^2x^2)^{7/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((g*x)**m/(e*x+d)**3/(-e**2*x**2+d**2)**(7/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^{-m}+g_x⁻ⁿ+a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 239

2.4.183 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^3(e+fx)^n}{a+bx+cx^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**3*(f*x+e)**n/(c*x**2+b*x+a),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^{-m}+g_x⁻ⁿ+a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 542

2.4.184 Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx)^n (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((e*x+d)**m*(g*x+f)**n/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-[^]m-f+g_x-[^]n-a+b_x+c_x[^]2-[^]p.txt

Test file number 35

Integral number in file 767

2.4.185 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m}}{f + gx} dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((e*x+d)**m/(g*x+f)/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-[^]m-f+g_x-[^]n-a+b_x+c_x[^]2-[^]p.txt

Test file number 35

Integral number in file 772

2.4.186 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m}}{(f+gx)^3} dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((e*x+d)**m/(g*x+f)**3/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 774

2.4.187 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^n (a+2cdx+ce^2)}{(d+ex)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((g*x+f)**n*(c*e*x**2+2*c*d*x+a)/(e*x+d)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m-f+g_x-^n-a+b_x+c_x^2-^p.txt

Test file number 35

Integral number in file 810

2.4.188 Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx)^n (a + 2cdx + cex^2) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(g*x+f)**n*(c*e*x**2+2*c*d*x+a),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 813

2.4.189 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (a + bx + cx^2)}{(f + gx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(c*x**2+b*x+a)/(g*x+f)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x-^m+g_x-ⁿ-a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 923

2.4.190 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (a + bx + cx^2)^2}{(f + gx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(c*x**2+b*x+a)**2/(g*x+f)**2,x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m+g_xⁿ+a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 928

2.4.191 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^m (a+bx+cx^2)}{(e+fx)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x+d)**m*(c*x**2+b*x+a)/(f*x+e)**(3/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m+g_xⁿ+a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 944

2.4.192 Sympy [F(-2)]

Exception generated.

$$\int (d+ex)^m (f+gx)^n (a+bx+cx^2) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x+d)**m*(g*x+f)**n*(c*x**2+b*x+a),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.4-d+e_x^m+g_xⁿ+a+b_x+c_x²-^p.txt

Test file number 35

Integral number in file 953

2.4.193 Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (-cd^2 + bde + be^2x + ce^2x^2)^p ((-cd + be)f + (cef - cdg + beg)x + cegx^2) dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((e*x+d)**m*(c*e**2*x**2+b*e**2*x+b*d*e-c*d**2)**p*(-(-b*e+c*d)*f+(b*e*g-c*d*g+c*e*f)*x+c*e*g*x**2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/1.2.1.9_P-x-d+e_x-^m-a+b_x+c_x^2-^p.txt

Test file number 38

Integral number in file 139

2.4.194 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sqrt{2} - x^2}{1 - \sqrt{2}x^2 + x^4} dx = \text{Exception raised: PolynomialError}$$

```
[In] integrate((-x**2+2**(1/2))/(1+x**4-x**2*2**(1/2)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(128*_t**4 - 16*sqrt(2)*_t**2 + 1) c
contains an element of the set of generators.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 102

2.4.195 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sqrt{2} + x^2}{1 + \sqrt{2}x^2 + x^4} dx = \text{Exception raised: PolynomialError}$$

[In] integrate((x**2+2**(1/2))/(1+x**4+x**2*2**(1/2)),x)

[Out] Exception raised: PolynomialError >> 1/(128*_t**4 + 16*sqrt(2)*_t**2 + 1) c
contains an element of the set of generators.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 103

2.4.196 Sympy [F(-2)]

Exception generated.

$$\int \frac{2\sqrt{a} - x^2}{a - \sqrt{a}x^2 + x^4} dx = \text{Exception raised: PolynomialError}$$

[In] integrate((-x**2+2*a**(1/2))/(a+x**4-x**2*a**(1/2)),x)

[Out] Exception raised: PolynomialError >> 1/(64*_t**4*a - 16*_t**2*sqrt(a) + 1)
contains an element of the set of generators.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-
d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 107

2.4.197 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{a - \sqrt{ax^2 + x^4}} dx = \text{Exception raised: PolynomialError}$$

```
[In] integrate((B*x**2+A)/(a+x**4-x**2*a**(1/2)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(64*_t**4*a - 16*_t**2*B**2*sqrt(a) + B**4) contains an element of the set of generators.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 110

2.4.198 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{a - \sqrt{acx^2 + cx^4}} dx = \text{Exception raised: PolynomialError}$$

```
[In] integrate((B*x**2+A)/(a+c*x**4-x**2*(a*c)**(1/2)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(64*_t**4*a*c**3 - 16*_t**2*B**2*c*sqrt(a*c) + B**4) contains an element of the set of generators.
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 111

2.4.199 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{a - \sqrt{a}\sqrt{cx^2 + cx^4}} dx = \text{Exception raised: PolynomialError}$$

[In] integrate((B*x**2+A)/(a+c*x**4-x**2*a**(1/2)*c**(1/2)),x)

[Out] Exception raised: PolynomialError >> 1/(64*_t**4*a*c**5 - 16*_t**2*B**2*sqrt(a)*c**(7/2) + B**4*c**2) contains an element of the set of generators.

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/1.2.2.3-d+e_x^2-^m-a+b_x^2+c_x^4-^p.txt

Test file number 40

Integral number in file 112

2.4.200 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-2n}}{bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**(-1-2*n)/(b*x**n+c*x**(2*n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x-^m-a+b_x^n+c_x^-2_n-^p.txt

Test file number 46

Integral number in file 498

2.4.201 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-3n}}{bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**(-1-3*n)/(b*x**n+c*x**(2*n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.2-d_x^{m-a}+b_xⁿ+c_x⁻²_n^p.txt

Test file number 46

Integral number in file 499

2.4.202 Sympy [F(-2)]

Exception generated.

$$\int \frac{1 + (1 + \sqrt{3})x^4}{1 - x^4 + x^8} dx = \text{Exception raised: PolynomialError}$$

[In] integrate((1+x**4*(1+3**(1/2)))/(x**8-x**4+1),x)

[Out] Exception raised: PolynomialError >> 1/(239467000838037598029035598269032581075191976715165250684200040290318941159424*_t**88 + 138256337395873345762803423705330731641326126160751478072830556473063127384064*sqrt(3)*_t**88 - 5732624312622

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^{n-q}+a+b_xⁿ+c_x⁻²_n^p.txt

Test file number 47

Integral number in file 32

2.4.203 Sympy [F(-2)]

Exception generated.

$$\int \frac{3 - 2\sqrt{3} + (-3 + \sqrt{3})x^4}{1 - x^4 + x^8} dx = \text{Exception raised: PolynomialError}$$

[In] integrate((3+x**4*(-3+3**(1/2))-2*3**(1/2))/(x**8-x**4+1),x)

[Out] Exception raised: PolynomialError >> 1/(-36944369544063775196667969536*_t**32 + 21329841701306232282053345280*sqrt(3)*_t**32 - 167111083173036783803087978496*sqrt(3)*_t**28 + 289444886563568182740740210688*_t**28 - 9921139603646460044679

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 33

2.4.204 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(d+e*x**n)/(a+c*x**(2*n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 45

2.4.205 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^2(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(d+e*x**n)**2/(a+c*x**(2*n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 46

2.4.206 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + cx^{2n})^p}{d + ex^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((a+c*x**(2*n))**p/(d+e*x**n),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 63

2.4.207 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(1/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 72

2.4.208 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(1/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 73

2.4.209 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^3 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(1/(d+e*x**n)**3/(a+b*x**n+c*x**(2*n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 47

Integral number in file 74

2.4.210 Sympy [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (d + ex^n)^q}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((f*x)**m*(d+e*x**n)**q/(a+b*x**n+c*x**(2*n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n-p.txt

Test file number 48

Integral number in file 145

2.4.211 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex^n)^q}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(x**2*(d+e*x**n)**q/(a+b*x**n+c*x**(2*n)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-
f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt
```

Test file number 48

Integral number in file 146

2.4.212 Sympy [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^n)^q}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(x*(d+e*x**n)**q/(a+b*x**n+c*x**(2*n)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

```
input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-
f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt
```

Test file number 48

Integral number in file 147

2.4.213 Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex^n)^q}{x^2(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d+e*x**n)**q/x**2/(a+b*x**n+c*x**(2*n)),x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 150

2.4.214 Sympy [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (a + bx^n + cx^{2n})^p}{d + ex^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((f*x)**m*(a+b*x**n+c*x**(2*n))**p/(d+e*x**n),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 155

2.4.215 Sympy [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (a + bx^n + cx^{2n})^p}{(d + ex^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((f*x)**m*(a+b*x**n+c*x**(2*n))**p/(d+e*x**n)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/1.2.3.4-f_x^m-d+e_x^n-q-a+b_x^n+c_x^-2_n^p.txt

Test file number 48

Integral number in file 156

2.4.216 Sympy [F(-2)]

Exception generated.

$$\int \left(d + ex + f \sqrt{a + bx + \frac{e^2 x^2}{f^2}} \right)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d+e*x+f*(a+b*x+e**2*x**2/f**2)**(1/2))**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txtTest file number 52Integral number in file 472**2.4.217 Sympy [F(-2)]**

Exception generated.

$$\int (a + x^2)^{5/2} (x + \sqrt{a + x^2})^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((x**2+a)**(5/2)*(x+(x**2+a)**(1/2))**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txtTest file number 52Integral number in file 495**2.4.218 Sympy [F(-2)]**

Exception generated.

$$\int (a + x^2)^{5/2} (x - \sqrt{a + x^2})^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((x**2+a)**(5/2)*(x-(x**2+a)**(1/2))**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txtTest file number 52Integral number in file 501

2.4.219 Sympy [F(-2)]

Exception generated.

$$\int \left(a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2} \right)^2 \left(d + ex + f \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \right)^n dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((a+2*d*e*x/f**2+e**2*x**2/f**2)**2*(d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 507

2.4.220 Sympy [F(-2)]

Exception generated.

$$\int \left(a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2} \right) \left(d + ex + f \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \right)^n dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((a+2*d*e*x/f**2+e**2*x**2/f**2)*(d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 508

2.4.221 Sympy [F(-2)]

Exception generated.

$$\int \frac{\left(d + ex + f\sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}}\right)^n}{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n/(a+2*d*e*x/f*
*2+e**2*x**2/f**2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 510

2.4.222 Sympy [F(-2)]

Exception generated.

$$\int \frac{\left(d + ex + f\sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}}\right)^n}{\left(a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}\right)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n/(a+2*d*e*x/f*
*2+e**2*x**2/f**2)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 511

2.4.223 Sympy [F(-2)]

Exception generated.

$$\int \left(a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2} \right)^{3/2} \left(d + ex + f \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \right)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((a+2*d*e*x/f**2+e**2*x**2/f**2)**(3/2)*(d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 514

2.4.224 Sympy [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \left(d + ex + f \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \right)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2)*(d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 515

2.4.225 Sympy [F(-2)]

Exception generated.

$$\int \frac{\left(d + ex + f\sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}}\right)^n}{\left(a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}\right)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n/(a+2*d*e*x/f**2+e**2*x**2/f**2)**(3/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 517

2.4.226 Sympy [F(-2)]

Exception generated.

$$\int \sqrt{ag + \frac{2degx}{f^2} + \frac{e^2gx^2}{f^2}} \left(d + ex + f\sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}}\right)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((a*g+2*d*e*g*x/f**2+e**2*g*x**2/f**2)**(1/2)*(d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 519

2.4.227 Sympy [F(-2)]

Exception generated.

$$\int \frac{\left(d + ex + f\sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}}\right)^n}{\sqrt{ag + \frac{2degx}{f^2} + \frac{e^2gx^2}{f^2}}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n/(a*g+2*d*e*g*x/f**2+e**2*g*x**2/f**2)**(1/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 520

2.4.228 Sympy [F(-2)]

Exception generated.

$$\int \frac{\left(d + ex + f\sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}}\right)^n}{\left(ag + \frac{2degx}{f^2} + \frac{e^2gx^2}{f^2}\right)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n/(a*g+2*d*e*g*x/f**2+e**2*g*x**2/f**2)**(3/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 1_Algebraic_functions/1.3_Miscellaneous/1.3.2_Algebraic_functions.txt

Test file number 52

Integral number in file 521

2.4.229 Sympy [F(-2)]

Exception generated.

$$\int F^{c(a+bx)}(d^2 + 2dex + e^2x^2)^{-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(F**(c*(b*x+a))/((e**2*x**2+2*d*e*x+d**2)**m),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 2_Exponentials/2.1_u-F^-c-a+b_x-^n.txtTest file number 53Integral number in file 25**2.4.230 Sympy [F(-2)]**

Exception generated.

$$\int a^x b^{-x} dx = \text{Exception raised: TypeError}$$

[In] integrate(a**x/(b**x),x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 2_Exponentials/2.3_Exponential_functions.txtTest file number 55Integral number in file 570**2.4.231 Sympy [F(-2)]**

Exception generated.

$$\int F^{f(a+b\log^2(c(d+ex)^n))}(g+hx)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(F**(f*(a+b*ln(c*(e*x+d)**n)**2))*(h*x+g)**m,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 2_Exponentials/2.3_Exponential_functions.txtTest file number 55Integral number in file 594

2.4.232 Sympy [F(-2)]

Exception generated.

$$\int F^{f(a+b\log(c(d+ex)^n))^2}(g+hx)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(F**(f*(a+b*ln(c*(e*x+d)**n))**2)*(h*x+g)**m,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 2_Exponentials/2.3_Exponential_functions.txtTest file number 55Integral number in file 609**2.4.233 Sympy [F(-2)]**

Exception generated.

$$\int \frac{x^{-1+n} \log(ex^n)}{1-ex^n} dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(-1+n)*ln(e*x**n)/(1-e*x**n),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txtTest file number 57Integral number in file 345**2.4.234 Sympy [F(-2)]**

Exception generated.

$$\int \frac{x^{-1+n} \log\left(\frac{x^n}{d}\right)}{d-x^n} dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(-1+n)*ln(x**n/d)/(d-x**n),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txtTest file number 57Integral number in file 346

2.4.235 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+n} \log\left(-\frac{ex^n}{d}\right)}{d + ex^n} dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(-1+n)*ln(-e*x**n/d)/(d+e*x**n),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txtTest file number 57Integral number in file 347**2.4.236 Sympy [F(-2)]**

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(c - x^{-n})} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*x**n))/x/(c-1/(x**n)),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txtTest file number 57Integral number in file 420**2.4.237 Sympy [F(-2)]**

Exception generated.

$$\int (fx)^m (d + ex^r)^3 (a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x)**m*(d+e*x**r)**3*(a+b*ln(c*x**n)),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txtTest file number 57Integral number in file 440

2.4.238 Sympy [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r)^2 (a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x)**m*(d+e*x**r)**2*(a+b*ln(c*x**n)),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txtTest file number 57Integral number in file 441**2.4.239 Sympy [F(-2)]**

Exception generated.

$$\int (fx)^m (d + ex^r) (a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x)**m*(d+e*x**r)*(a+b*ln(c*x**n)),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.1.4-f_x-^m-d+e_x^r-^q-a+b_log-c_x^n-^p.txtTest file number 57Integral number in file 442**2.4.240 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(a + b \log(cx^n))^4 \log(d(\frac{1}{d} + fx^m))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*x**n))**4*ln(d*(1/d+f*x**m))/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-^p.txtTest file number 58Integral number in file 64

2.4.241 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3 \log(d(\frac{1}{d} + fx^m))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*x**n))**3*ln(d*(1/d+f*x**m))/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txtTest file number 58Integral number in file 65**2.4.242 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2 \log(d(\frac{1}{d} + fx^m))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*x**n))**2*ln(d*(1/d+f*x**m))/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txtTest file number 58Integral number in file 66**2.4.243 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(\frac{1}{d} + fx^m))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*x**n))*ln(d*(1/d+f*x**m))/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txtTest file number 58Integral number in file 67

2.4.244 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3 \log(d(e + fx^m)^r)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*x**n))**3*ln(d*(e+f*x**m)**r)/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txtTest file number 58Integral number in file 139**2.4.245 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2 \log(d(e + fx^m)^r)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*x**n))**2*ln(d*(e+f*x**m)**r)/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txtTest file number 58Integral number in file 140**2.4.246 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^m)^r)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*x**n))*ln(d*(e+f*x**m)**r)/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txtTest file number 58Integral number in file 141

2.4.247 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^m)^k)}{x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*ln(c*x**n))*ln(d*(e+f*x**m)**k)/x,x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
```

```
input file name 3_Logarithms/3.1.5_u-a+b_log-c_x^n-p.txt
```

```
Test file number 58
```

```
Integral number in file 147
```

2.4.248 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^4 (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((b*x+a)**4*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

```
input file name 3_Logarithms/3.2.1-f+g_x^-m-A+B_log-e-a+b_x-over-c+d_x^-n-p.txt
```

```
Test file number 59
```

```
Integral number in file 147
```

2.4.249 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^3 (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((b*x+a)**3*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 148

2.4.250 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^2 (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((b*x+a)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 149

2.4.251 Sympy [F(-2)]

Exception generated.

$$\int (a + bx) (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((b*x+a)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 150

2.4.252 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^3 (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((b*x+a)**3*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 156**2.4.253 Sympy [F(-2)]**

Exception generated.

$$\int (a + bx)^2 (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((b*x+a)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 157**2.4.254 Sympy [F(-2)]**

Exception generated.

$$\int (a + bx) (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((b*x+a)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 158

2.4.255 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^3 (A + B \log(e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((b*x+a)**3*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))*3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 164

2.4.256 Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^2 (A + B \log(e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((b*x+a)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))*3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 165

2.4.257 Sympy [F(-2)]

Exception generated.

$$\int (a + bx) (A + B \log (e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((b*x+a)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 166**2.4.258 Sympy [F(-2)]**

Exception generated.

$$\int (g + hx)^4 (A + B \log (e(a + bx)^n (c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((h*x+g)**4*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 293**2.4.259 Sympy [F(-2)]**

Exception generated.

$$\int (g + hx)^3 (A + B \log (e(a + bx)^n (c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((h*x+g)**3*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 294

2.4.260 Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^2 (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((h*x+g)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 295

2.4.261 Sympy [F(-2)]

Exception generated.

$$\int (g + hx) (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((h*x+g)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 59

Integral number in file 296

2.4.262 Sympy [F(-2)]

Exception generated.

$$\int (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 297**2.4.263 Sympy [F(-2)]**

Exception generated.

$$\int \frac{A + B \log(e(a + bx)^n(c + dx)^{-n})}{g + hx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))/(h*x+g),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 298**2.4.264 Sympy [F(-2)]**

Exception generated.

$$\int (g + hx)^2 (A + B \log(e(a + bx)^n(c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((h*x+g)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 303

2.4.265 Sympy [F(-2)]

Exception generated.

$$\int (g + hx) (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((h*x+g)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 304**2.4.266 Sympy [F(-2)]**

Exception generated.

$$\int (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 305**2.4.267 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(A + B \log (e(a + bx)^n (c + dx)^{-n}))^2}{g + hx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2/(h*x+g),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 306

2.4.268 Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^2 (A + B \log(e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((h*x+g)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))*3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 309**2.4.269 Sympy [F(-2)]**

Exception generated.

$$\int (g + hx) (A + B \log(e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

[In] integrate((h*x+g)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))*3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 310**2.4.270 Sympy [F(-2)]**

Exception generated.

$$\int (A + B \log(e(a + bx)^n (c + dx)^{-n}))^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))*3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txtTest file number 59Integral number in file 311

2.4.271 Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + B \log(e(a + bx)^n(c + dx)^{-n}))^3}{g + hx} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n))**3/(h*x+g),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.1-f+g_x-^m-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txt

Test file number 59

Integral number in file 312

2.4.272 Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^m (ci + dix)^{-2-m} \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right)^3 dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)*(A+B*ln(e*((b*x+a)/(d*x+c))**n))**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x-^m-h+i_x-^q-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txt

Test file number 60

Integral number in file 212

2.4.273 Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^m (ci + dix)^{-2-m} \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right)^2 dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)*(A+B*ln(e*((b*x+a)/(d*x+c))**n))**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x-^h+i_x-^q-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 60

Integral number in file 213

2.4.274 Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^m (ci + dix)^{-2-m} \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right) dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)*(A+B*ln(e*((b*x+a)/(d*x+c))**n)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x-^h+i_x-^q-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 60

Integral number in file 214

2.4.275 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ag + bgx)^m (ci + dix)^{-2-m}}{A + B \log \left(e \left(\frac{a+bx}{c+dx} \right)^n \right)} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)/(A+B*ln(e*((b*x+a)/(d*x+c))**n)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x-^m-h+i_x-^q-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txt

Test file number 60

Integral number in file 215

2.4.276 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ag + bgx)^m (ci + dix)^{-2-m}}{\left(A + B \log \left(e \left(\frac{a+bx}{c+dx} \right)^n \right) \right)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)/(A+B*ln(e*((b*x+a)/(d*x+c))**n))**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x-^m-h+i_x-^q-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txt

Test file number 60

Integral number in file 216

2.4.277 Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^{-2-m} (ci + dix)^m \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right)^3 dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m*(A+B*ln(e*((b*x+a)/(d*x+c))**n))**3,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x^-m-h+i_x^-q-A+B_log-e-a+b_x-over-c+d_x^-n^-p.txt

Test file number 60

Integral number in file 218

2.4.278 Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^{-2-m} (ci + dix)^m \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right)^2 dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m*(A+B*ln(e*((b*x+a)/(d*x+c))**n))**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x^-m-h+i_x^-q-A+B_log-e-a+b_x-over-c+d_x^-n^-p.txt

Test file number 60

Integral number in file 219

2.4.279 Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^{-2-m} (ci + dix)^m \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right) dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m*(A+B*ln(e*((b*x+a)/(d*x+c))**n)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x-^h+i_x-^q-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 60

Integral number in file 220

2.4.280 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ag + bgx)^{-2-m} (ci + dix)^m}{A + B \log \left(e \left(\frac{a+bx}{c+dx} \right)^n \right)} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m/(A+B*ln(e*((b*x+a)/(d*x+c))**n)),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x-^h+i_x-^q-A+B_log-e-a+b_x-over-c+d_x-ⁿ-^p.txt

Test file number 60

Integral number in file 221

2.4.281 Sympy [F(-2)]

Exception generated.

$$\int \frac{(ag + bgx)^{-2-m}(ci + dix)^m}{(A + B \log(e^{\frac{a+bx}{c+dx}}))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m/(A+B*ln(e*((b*x+a)/(d*x+c))**n))**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.2.2-f+g_x-^m-h+i_x-^q-A+B_log-e-a+b_x-over-c+d_x-^n-^p.txt

Test file number 60

Integral number in file 222

2.4.282 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(e(f(a+bx)^p(c+dx)^q)^r)}{(a+bx)^2} dx = \text{Exception raised: NotImplementedError}$$

```
[In] integrate(ln(e*(f*(b*x+a)**p*(d*x+c)**q)**r)/(b*x+a)**2,x)
```

```
[Out] Exception raised: NotImplementedError >> no valid subset found
```

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x-^p-c+d_x-^q-^r-^s.txt

Test file number 61

Integral number in file 12

2.4.283 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(1 - \frac{a+bx}{c+dx}\right)}{(a+bx)(c+dx) \log^2\left(\frac{a+bx}{c+dx}\right)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(ln(1+(-b*x-a)/(d*x+c))/(b*x+a)/(d*x+c)/ln((b*x+a)/(d*x+c))**2,x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x-^p-c+d_x-^q-r-^s.txt

Test file number 61

Integral number in file 72

2.4.284 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(1 - \frac{c+dx}{a+bx}\right)}{(a+bx)(c+dx)\log^2\left(\frac{a+bx}{c+dx}\right)} dx = \text{Exception raised: TypeError}$$

[In] integrate(ln(1+(-d*x-c)/(b*x+a))/(b*x+a)/(d*x+c)/ln((b*x+a)/(d*x+c))**2,x)

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x-^p-c+d_x-^q-r-^s.txt

Test file number 61

Integral number in file 73

2.4.285 Sympy [F(-2)]

Exception generated.

$$\int \left(\frac{1}{(c+dx)(-a+c+(-b+d)x)\log\left(\frac{a+bx}{c+dx}\right)} + \frac{\log\left(1 - \frac{a+bx}{c+dx}\right)}{(a+bx)(c+dx)\log^2\left(\frac{a+bx}{c+dx}\right)} \right) dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(d*x+c)/(-a+c+(-b+d)*x)/ln((b*x+a)/(d*x+c))+ln(1+(-b*x-a)/(d*x+c))/(b*x+a)/(d*x+c)/ln((b*x+a)/(d*x+c))**2,x)

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x-^p-c+d_x-^q-r-^s.txt

Test file number 61

Integral number in file 74

2.4.286 Sympy [F(-2)]

Exception generated.

$$\int \left(-\frac{1}{(a+bx)(a-c+(b-d)x) \log\left(\frac{a+bx}{c+dx}\right)} + \frac{\log\left(1 - \frac{c+dx}{a+bx}\right)}{(a+bx)(c+dx) \log^2\left(\frac{a+bx}{c+dx}\right)} \right) dx$$

= Exception raised: TypeError

```
[In] integrate(-1/(b*x+a)/(a-c+(b-d)*x)/ln((b*x+a)/(d*x+c))+ln(1+(-d*x-c)/(b*x+a)))/(b*x+a)/(d*x+c)/ln((b*x+a)/(d*x+c))**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 3_Logarithms/3.2.3_u_log-e-f-a+b_x-^p-c+d_x-^q-r-^s.txt

Test file number 61

Integral number in file 75

2.4.287 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate((a+b*ln(c*(e*x+d)**n))/(g*x+f)**4,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62

Integral number in file 43

2.4.288 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*ln(c*(e*x+d)**n))**2/(g*x+f)**(5/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txtTest file number 62Integral number in file 149**2.4.289 Sympy [F(-2)]**

Exception generated.

$$\int (f + gx)^m (a + b \log(c(d + ex)^n)) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((g*x+f)**m*(a+b*ln(c*(e*x+d)**n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txtTest file number 62Integral number in file 162**2.4.290 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(f + gx)^m}{(a + b \log(c(d + ex)^n))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((g*x+f)**m/(a+b*ln(c*(e*x+d)**n))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txtTest file number 62Integral number in file 164

2.4.291 Sympy [F(-2)]

Exception generated.

$$\int (f + gx)^m \sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((g*x+f)**m*(a+b*ln(c*(e*x+d)**n))**(1/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62Integral number in file 166**2.4.292 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(f + gx)^m}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((g*x+f)**m/(a+b*ln(c*(e*x+d)**n))**(3/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62Integral number in file 168**2.4.293 Sympy [F(-2)]**

Exception generated.

$$\int (f + gx)^m (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((g*x+f)**m*(a+b*ln(c*(e*x+d)**n))**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62Integral number in file 169

2.4.294 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*(e*x+d)**n))/(e*x+d)/(g*x+f)**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txtTest file number 62Integral number in file 202**2.4.295 Sympy [F(-2)]**

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)(f + gx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*ln(c*(e*x+d)**n))/(e*x+d)/(g*x+f)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txtTest file number 62Integral number in file 203**2.4.296 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\log\left(c\left(a - \frac{(d-acd)x^{-m}}{ce}\right)\right)}{x(d + ex^m)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(ln(c*(a+(a*c*d-d)/c/e/(x**m)))/x/(d+e*x**m),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck
input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txtTest file number 62Integral number in file 335

2.4.297 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{x^{-m}(-d+acd+acex^m)}{e}\right)}{x(d+ex^m)} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(ln((-d+a*c*d+a*c*e*x**m)/e/(x**m))/x/(d+e*x**m),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 336

2.4.298 Sympy [F(-2)]

Exception generated.

$$\int \log(fx^m)(a+b\log(c(d+ex)^n))^p dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(ln(f*x**m)*(a+b*ln(c*(e*x+d)**n))**p,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 377

2.4.299 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+b\log(c(d+ex)^n))\log\left(\frac{e(f+gx)}{ef-dg}\right)}{d+ex} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*ln(c*(e*x+d)**n))*ln(e*(g*x+f)/(-d*g+e*f))/(e*x+d),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
```

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txt

Test file number 62

Integral number in file 401

2.4.300 Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^m (a + b \log(c(d(e + fx)^p)^q)) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((h*x+g)**m*(a+b*ln(c*(d*(f*x+e)**p)**q)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62Integral number in file 506**2.4.301 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(g + hx)^m}{(a + b \log(c(d(e + fx)^p)^q))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((h*x+g)**m/(a+b*ln(c*(d*(f*x+e)**p)**q))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62Integral number in file 508**2.4.302 Sympy [F(-2)]**

Exception generated.

$$\int (g + hx)^m \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((h*x+g)**m*(a+b*ln(c*(d*(f*x+e)**p)**q))**(1/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-^n-^p.txt

Test file number 62Integral number in file 510

2.4.303 Sympy [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^m}{(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((h*x+g)**m/(a+b*ln(c*(d*(f*x+e)**p)**q))**(3/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txtTest file number 62Integral number in file 512**2.4.304 Sympy [F(-2)]**

Exception generated.

$$\int (g + hx)^m (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((h*x+g)**m*(a+b*ln(c*(d*(f*x+e)**p)**q))**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.3_u-a+b_log-c-d+e_x-ⁿ-^p.txtTest file number 62Integral number in file 513**2.4.305 Sympy [F(-2)]**

Exception generated.

$$\int (fx)^{-1-n} \log(c(d + ex^n)^p) dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x)**(-1-n)*ln(c*(d+e*x**n)**p),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x-^m-ⁿ-^p.txtTest file number 63Integral number in file 68

2.4.306 Sympy [F(-2)]

Exception generated.

$$\int (fx)^{-1-2n} \log(c(d+ex^n)^p) dx = \text{Exception raised: TypeError}$$

[In] integrate((f*x)**(-1-2*n)*ln(c*(d+e*x**n)**p),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 69**2.4.307 Sympy [F(-2)]**

Exception generated.

$$\int (d+ex)^m \log(c(a+bx)^p) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((e*x+d)**m*ln(c*(b*x+a)**p),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 208**2.4.308 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\log(c(d+ex^n)^p)}{x(f+gx^{-n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(ln(c*(d+e*x**n)**p)/x/(f+g/(x**n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 372

2.4.309 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^n))}{x(ce - (1 - cd)x^{-n})} dx = \text{Exception raised: TypeError}$$

[In] integrate(ln(c*(d+e*x**n))/x/(c*e+(c*d-1)/(x**n)),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 378**2.4.310 Sympy [F(-2)]**

Exception generated.

$$\int \frac{x^{-1+n} \log(c(d + ex^n))}{-1 + cd + cex^n} dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(-1+n)*ln(c*(d+e*x**n))/(-1+c*d+c*e*x**n),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 379**2.4.311 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(f + gx^n)^2 \log^q(c(d + ex^n)^p)}{x} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((f+g*x**n)**2*ln(c*(d+e*x**n)**p)**q/x,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck
input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 382

2.4.312 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d+ex^n)^p)}{x(f+gx^{-n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(ln(c*(d+e*x**n)**p)**q/x/(f+g/(x**n)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 387**2.4.313 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\log(x) \log(d+ex^m)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(ln(x)*ln(d+e*x**m)/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 389**2.4.314 Sympy [F(-2)]**

Exception generated.

$$\int \frac{a+b \log\left(c\left(d+\frac{e}{\sqrt[3]{x}}\right)^n\right)}{x^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*ln(c*(d+e/x**(1/3))**n))/x**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 495

2.4.315 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (a + b \log(c(d + ex^2)^p))}{\sqrt{hx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 606**2.4.316 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(f + gx) (a + b \log(c(d + ex^2)^p))}{(hx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 607**2.4.317 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(f + gx) (a + b \log(c(d + ex^2)^p))}{(hx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 608

2.4.318 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \log(c(d + ex^2)^p))}{\sqrt{hx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)**2*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 611**2.4.319 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \log(c(d + ex^2)^p))}{(hx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)**2*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 612**2.4.320 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \log(c(d + ex^2)^p))}{(hx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)**2*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 613

2.4.321 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(fx^p) \log(1+ex^m)}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(ln(f*x**p)*ln(1+e*x**m)/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 619**2.4.322 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\log(fx^p) (a + b \log(c(d + ex^m)^n))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(ln(f*x**p)*(a+b*ln(c*(d+e*x**m)**n))/x,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 3_Logarithms/3.4_u-a+b_log-c-d+e_x^m-n-p.txtTest file number 63Integral number in file 623**2.4.323 Sympy [F(-2)]**

Exception generated.

$$\int \frac{ax^3 + 2bnx^2 \log(cx^n)}{(ax^2 + bx \log^2(cx^n))^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a*x**3+2*b*n*x**2*ln(c*x**n))/(a*x**2+b*x*ln(c*x**n)**2)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 3_Logarithms/3.5_Logarithm_functions.txtTest file number 64Integral number in file 28

2.4.324 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x\left(d\sqrt{-\frac{e}{d}}+ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(ln(2*x*(e*x+d*(-e/d)**(1/2))/(e*x**2+d))/(e*x**2+d),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.5_Logarithm_functions.txtTest file number 64Integral number in file 40**2.4.325 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\log\left(-\frac{2x\left(d\sqrt{-\frac{e}{d}}-ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(ln(-2*x*(-e*x+d*(-e/d)**(1/2))/(e*x**2+d))/(e*x**2+d),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 3_Logarithms/3.5_Logarithm_functions.txtTest file number 64Integral number in file 41**2.4.326 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\log\left(\frac{2x\left(\frac{d\sqrt{e}}{\sqrt{-d}}+ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: AttributeError}$$

[In] integrate(ln(2*x*(e*x+d*e**(1/2)/(-d)**(1/2))/(e*x**2+d))/(e*x**2+d),x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 42

2.4.327 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x\left(\frac{d\sqrt{e}}{\sqrt{-d}}-ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: AttributeError}$$

[In] integrate(ln(-2*x*(-e*x+d**e**(1/2)/(-d)**(1/2))/(e*x**2+d))/(e*x**2+d),x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 43

2.4.328 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x\left(\sqrt{d}\sqrt{-e+ex}\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: AttributeError}$$

[In] integrate(ln(2*x*(e*x+d**(1/2)*(-e)**(1/2))/(e*x**2+d))/(e*x**2+d),x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 44

2.4.329 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x(\sqrt{d}\sqrt{-e-ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(ln(-2*x*(-e*x+d**(1/2))*(-e)**(1/2))/(e*x**2+d))/(e*x**2+d),x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 45

2.4.330 Sympy [F(-2)]

Exception generated.

$$\int \log^2(1+x+x^2) dx = \text{Exception raised: RecursionError}$$

```
[In] integrate(ln(x**2+x+1)**2,x)
```

```
[Out] Exception raised: RecursionError >> maximum recursion depth exceeded in comparison
```

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 99

2.4.331 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log^2(-1+x+x^2)}{x^3} dx = \text{Exception raised: RecursionError}$$

```
[In] integrate(ln(x**2+x-1)**2/x**3,x)
```


[Out] Exception raised: RecursionError >> maximum recursion depth exceeded while calling a Python object

input file name 3_Logarithms/3.5_Logarithm_functions.txt

Test file number 64

Integral number in file 100

2.4.332 Sympy [F(-2)]

Exception generated.

$$\int \sin(a + bx) \tan^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sec(b*x+a)**2*sin(b*x+a)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.1_Sine/4.1.0-a_sin-^m-b_trg-ⁿ.txt

Test file number 65

Integral number in file 72

2.4.333 Sympy [F(-2)]

Exception generated.

$$\int \sin^3(a + bx) \tan^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sec(b*x+a)**2*sin(b*x+a)**5,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.1_Sine/4.1.0-a_sin-^m-b_trg-ⁿ.txt

Test file number 65

Integral number in file 106

2.4.334 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c + dx)}{(e + fx)(a + a \sin(c + dx))} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sin(d*x+c)**3/(f*x+e)/(a+a*sin(d*x+c)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txtTest file number 66Integral number in file 195**2.4.335 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(e + fx)(a + a \sin(c + dx))} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(cos(d*x+c)**3/(f*x+e)/(a+a*sin(d*x+c)),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.1_Sine/4.1.10-c+d_x-^m-a+b_sin-^n.txtTest file number 66Integral number in file 267**2.4.336 Sympy [F(-2)]**

Exception generated.

$$\int (3 + b \sin(e + fx))^m (c + d \sin(e + fx))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*sin(f*x+e))**m*(c+d*sin(f*x+e))**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.1_Sine/4.1.2.1-a+b_sin-^m-c+d_sin-^n.txtTest file number 73Integral number in file 801

2.4.337 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^7(c + dx) \sin^n(c + dx)}{(a + a \sin(c + dx))^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(cos(d*x+c)**7*sin(d*x+c)**n/(a+a*sin(d*x+c))**4,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74Integral number in file 703**2.4.338 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\cos^4(e + fx)(c + d \sin(e + fx))^n}{(a + a \sin(e + fx))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(cos(f*x+e)**4*(c+d*sin(f*x+e))**n/(a+a*sin(f*x+e))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74Integral number in file 949**2.4.339 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\cos^2(e + fx)(c + d \sin(e + fx))^n}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(cos(f*x+e)**2*(c+d*sin(f*x+e))**n/(a+b*sin(f*x+e))**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.1_Sine/4.1.2.2-g_cos^p-a+b_sin^m-c+d_sin^n.txt

Test file number 74Integral number in file 1527

2.4.340 Sympy [F(-2)]

Exception generated.

$$\int (a + b \sin(e + fx))^m (A + B \sin(e + fx))(c + d \sin(e + fx))^n dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((a+b*sin(f*x+e))**m*(A+B*sin(f*x+e))*(c+d*sin(f*x+e))**n,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 4_Trig_functions/4.1_Sine/4.1.3.1-a+b_sin-[^]m-c+d_sin-[^]n-A+B_sin-.txt

Test file number 76

Integral number in file 358

2.4.341 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cos(d*x+c)**2/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec-[^]m-a+b_tan-[^]n.txt

Test file number 101

Integral number in file 570

2.4.342 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cos(d*x+c)**4/(a+b*tan(d*x+c))**3,x)
```

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.1.2-d_sec^m-a+b_tanⁿ.txt

Test file number 101

Integral number in file 571

2.4.343 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^6(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate(sin(d*x+c)**6/(a+b*tan(d*x+c))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin^m-a+b_tanⁿ.txt

Test file number 102

Integral number in file 67

2.4.344 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate(sin(d*x+c)**4/(a+b*tan(d*x+c))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin^m-a+b_tanⁿ.txt

Test file number 102

Integral number in file 68

2.4.345 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(sin(d*x+c)**2/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin-[^]m-a+b_tan-[^]n.txt

Test file number 102

Integral number in file 69

2.4.346 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(sin(d*x+c)**4/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin-[^]m-a+b_tan-[^]n.txt

Test file number 102

Integral number in file 73

2.4.347 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(sin(d*x+c)**2/(a+b*tan(d*x+c))**4,x)
```

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.1.3-d_sin-^m-a+b_tan-ⁿ.txt

Test file number 102

Integral number in file 74

2.4.348 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate(tan(d*x+c)**6/(a+b*tan(d*x+c))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 477

2.4.349 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate(tan(d*x+c)**5/(a+b*tan(d*x+c))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 478

2.4.350 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**4/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 479

2.4.351 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**3/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 480

2.4.352 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**2/(a+b*tan(d*x+c))**3,x)
```


[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan[^]m-c+d_tan[^]n.txt

Test file number 103

Integral number in file 481

2.4.353 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate(tan(d*x+c)/(a+b*tan(d*x+c))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan[^]m-c+d_tan[^]n.txt

Test file number 103

Integral number in file 482

2.4.354 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate(1/(a+b*tan(d*x+c))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan[^]m-c+d_tan[^]n.txt

Test file number 103

Integral number in file 483

2.4.355 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 484

2.4.356 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)**2/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 485

2.4.357 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**6/(a+b*tan(d*x+c))**4,x)
```

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 486

2.4.358 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

[In] integrate(tan(d*x+c)**5/(a+b*tan(d*x+c))**4,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 487

2.4.359 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

[In] integrate(tan(d*x+c)**4/(a+b*tan(d*x+c))**4,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt

Test file number 103

Integral number in file 488

2.4.360 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

[In] integrate(tan(d*x+c)**3/(a+b*tan(d*x+c))**4,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txtTest file number 103Integral number in file 489**2.4.361 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

[In] integrate(tan(d*x+c)**2/(a+b*tan(d*x+c))**4,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txtTest file number 103Integral number in file 490**2.4.362 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

[In] integrate(tan(d*x+c)/(a+b*tan(d*x+c))**4,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 491

2.4.363 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

[In] integrate(1/(a+b*tan(d*x+c))**4,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 492

2.4.364 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

[In] integrate(cot(d*x+c)/(a+b*tan(d*x+c))**4,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 493

2.4.365 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)**2/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 494

2.4.366 Sympy [F(-2)]

Exception generated.

$$\int \frac{c + d \tan(e + fx)}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((c+d*tan(f*x+e))/(a+b*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-ⁿ.txt

Test file number 103

Integral number in file 1196

2.4.367 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((c+d*tan(f*x+e))**2/(a+b*tan(f*x+e))**3,x)
```

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1202

2.4.368 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate((c+d*tan(f*x+e))**3/(a+b*tan(f*x+e))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1208

2.4.369 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))} dx = \text{Exception raised: NotImplementedError}$$

[In] integrate(1/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e)),x)

[Out] Exception raised: NotImplementedError >> no valid subset found

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1214

2.4.370 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^3 (c + d \tan(e + fx))} dx$$

= Exception raised: NotImplementedError

[In] integrate(1/(a+b*tan(f*x+e))**3/(c+d*tan(f*x+e)),x)

[Out] Exception raised: NotImplementedError >> no valid subset found

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1215

2.4.371 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

[In] integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))**2,x)

[Out] Exception raised: NotImplementedError >> no valid subset found

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-^m-c+d_tan-^n.txt

Test file number 103

Integral number in file 1220

2.4.372 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

[In] integrate(1/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e))**2,x)

[Out] Exception raised: NotImplementedError >> no valid subset found
 input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt
 Test file number 103
 Integral number in file 1221

2.4.373 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^4}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate((a+b*tan(f*x+e))**4/(c+d*tan(f*x+e))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt
 Test file number 103
 Integral number in file 1223

2.4.374 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate((a+b*tan(f*x+e))**3/(c+d*tan(f*x+e))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt
 Test file number 103
 Integral number in file 1224

2.4.375 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((a+b*tan(f*x+e))**2/(c+d*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1225

2.4.376 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan-[^]m-c+d_tan-[^]n.txt

Test file number 103

Integral number in file 1226

2.4.377 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^3} dx$$

= Exception raised: NotImplementedError

```
[In] integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))**3,x)
```

[Out] Exception raised: NotImplementedError >> no valid subset found
 input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt
 Test file number 103
 Integral number in file 1227

2.4.378 Sympy [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^m (c + d \tan(e + fx))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((a+b*tan(f*x+e))**m*(c+d*tan(f*x+e))**n,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.3_Tangent/4.3.2.1-a+b_tan^m-c+d_tanⁿ.txt
 Test file number 103
 Integral number in file 1304

2.4.379 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)(a + ia \tan(c + dx))}} dx = \text{Exception raised: TypeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)**(1/2)/(a+I*a*tan(d*x+c)),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-
.txt
 Test file number 104
 Integral number in file 137

2.4.380 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)**(3/2)/(a+I*a*tan(d*x+c)),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-  
.txt
```

Test file number 104

Integral number in file 138

2.4.381 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)**(1/2)/(a+I*a*tan(d*x+c))**2,x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
```

```
input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tan^n-A+B_tan-  
.txt
```

Test file number 104

Integral number in file 143

2.4.382 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)**(3/2)/(a+I*a*tan(d*x+c))**2,x)
```

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 144

2.4.383 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)**(1/2)/(a+I*a*tan(d*x+c))**3,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 151

2.4.384 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate((A+B*tan(d*x+c))/tan(d*x+c)**(3/2)/(a+I*a*tan(d*x+c))**3,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan[^]m-c+d_tan[^]n-A+B_tan-.txt

Test file number 104

Integral number in file 152

2.4.385 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**4*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 282

2.4.386 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 283

2.4.387 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 284

2.4.388 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 285

2.4.389 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 286

2.4.390 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 287

2.4.391 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)**2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 288

2.4.392 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)**3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 289

2.4.393 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**4*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 290

2.4.394 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 291

2.4.395 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)**2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 292

2.4.396 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 293

2.4.397 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 294

2.4.398 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 295

2.4.399 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)**2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 296

2.4.400 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)**3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.3.1-a+b_tan^m-c+d_tanⁿ-A+B_tan-.txt

Test file number 104

Integral number in file 297

2.4.401 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx$$

= Exception raised: AttributeError

```
[In] integrate(tan(d*x+c)**3*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,
x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 38

2.4.402 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx$$

= Exception raised: AttributeError

```
[In] integrate(tan(d*x+c)**2*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,
x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 39

2.4.403 Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c+dx)(B\tan(c+dx)+C\tan^2(c+dx))}{(a+b\tan(c+dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(tan(d*x+c)*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 40

2.4.404 Sympy [F(-2)]

Exception generated.

$$\int \frac{B\tan(c+dx)+C\tan^2(c+dx)}{(a+b\tan(c+dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 41

2.4.405 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c+dx)(B \tan(c+dx) + C \tan^2(c+dx))}{(a+b \tan(c+dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 42

2.4.406 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c+dx)(B \tan(c+dx) + C \tan^2(c+dx))}{(a+b \tan(c+dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)**2*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 43

2.4.407 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cot(d*x+c)**3*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,
x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 44

2.4.408 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx)) (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((c+d*tan(f*x+e))*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 56

2.4.409 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2 (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

```
[In] integrate((c+d*tan(f*x+e))**2*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 63

2.4.410 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3 (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

```
[In] integrate((c+d*tan(f*x+e))**3*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 69

2.4.411 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))} dx$$

= Exception raised: NotImplementedError

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e)),x)
```

```
[Out] Exception raised: NotImplementedError >> no valid subset found
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^{-m}-c+d_tan⁻ⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 75

2.4.412 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^3 (c + d \tan(e + fx))} dx$$

= Exception raised: NotImplementedError

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3/(c+d*tan(f*x+e)),x)
```

```
[Out] Exception raised: NotImplementedError >> no valid subset found
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^{-m}-c+d_tan⁻ⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 76

2.4.413 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e)**2,x)
```

```
[Out] Exception raised: NotImplementedError >> no valid subset found
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 81

2.4.414 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2(c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e))**2,x)
```

```
[Out] Exception raised: NotImplementedError >> no valid subset found
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 82

2.4.415 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3 (A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

```
[In] integrate((a+b*tan(f*x+e))**3*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 84

2.4.416 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2 (A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

```
[In] integrate((a+b*tan(f*x+e))**2*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 85

2.4.417 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))(A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

```
[In] integrate((a+b*tan(f*x+e))*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e)
)**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'pri
mitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan[^]m-c+d_tan[^]n-A+B_tan+C_tan[^]2.txt

Test file number 105

Integral number in file 86

2.4.418 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'pri
mitive'
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan[^]m-c+d_tan[^]n-A+B_tan+C_tan[^]2.txt

Test file number 105

Integral number in file 87

2.4.419 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^3} dx$$

= Exception raised: NotImplementedError

```
[In] integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e)
)**3,x)
```

```
[Out] Exception raised: NotImplementedError >> no valid subset found
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan[^]m-c+d_tan[^]n-A+B_tan+C_tan[^]2.txt

Test file number 105

Integral number in file 88

2.4.420 Sympy [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^m (c + d \tan(e + fx))^n (A + B \tan(e + fx) + C \tan^2(e + fx)) dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((a+b*tan(f*x+e))**m*(c+d*tan(f*x+e))**n*(A+B*tan(f*x+e)+C*tan(f*x
+e)**2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan[^]m-c+d_tan[^]n-A+B_tan+C_tan[^]2.txt

Test file number 105

Integral number in file 164

2.4.421 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^m (A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^2} dx$$

= Exception raised: HeuristicGCDFailed

```
[In] integrate((a+b*tan(f*x+e))**m*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 4_Trig_functions/4.3_Tangent/4.3.4.2-a+b_tan^m-c+d_tanⁿ-A+B_tan+C_tan².txt

Test file number 105

Integral number in file 170

2.4.422 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \cot(c + dx)}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((A+B*cot(d*x+c))/(a+b*cot(d*x+c))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.4_Cotangent/4.4.2.1-a+b_cot^m-c+d_cotⁿ.txt

Test file number 112

Integral number in file 94

2.4.423 Sympy [F(-2)]

Exception generated.

$$\int \sec^2(c + bx) \sin(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate(sec(b*x+c)**2*sin(b*x+a),x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.1-c_trig-[^]m-d_trig-[^]n.txt

Test file number 135

Integral number in file 214

2.4.424 Sympy [F(-2)]

Exception generated.

$$\int \sec^3(c + bx) \sin(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate(sec(b*x+c)**3*sin(b*x+a),x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.1-c_trig-[^]m-d_trig-[^]n.txt

Test file number 135

Integral number in file 215

2.4.425 Sympy [F(-2)]

Exception generated.

$$\int \cos(a + bx) \sec^2(c + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate(cos(b*x+a)*sec(b*x+c)**2,x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.1-c_trig-[^]m-d_trig-[^]n.txt

Test file number 135

Integral number in file 242

2.4.426 Sympy [F(-2)]

Exception generated.

$$\int \cos(a + bx) \sec^3(c + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(cos(b*x+a)*sec(b*x+c)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.1-c_trig^m-d_trig^n.txtTest file number 135Integral number in file 243**2.4.427 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\sin^2(x)}{(a \cos(x) + b \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

[In] integrate(sin(x)**2/(a*cos(x)+b*sin(x))**2,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txtTest file number 136Integral number in file 16**2.4.428 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\sin(x)}{(a \cos(x) + b \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

[In] integrate(sin(x)/(a*cos(x)+b*sin(x))**2,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trig^n.txtTest file number 136Integral number in file 17

2.4.429 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{(a \cos(x) + b \sin(x))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(sin(x)**3/(a*cos(x)+b*sin(x))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 22

2.4.430 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cos(x) + b \sin(x))^3} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(1/(a*cos(x)+b*sin(x))**3,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 25

2.4.431 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a \cos(c + dx) + b \sin(c + dx))^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate(cos(d*x+c)/(a*cos(d*x+c)+b*sin(d*x+c))**2,x)
```

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 125

2.4.432 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a \cos(c + dx) + b \sin(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

[In] integrate(cos(d*x+c)**3/(a*cos(d*x+c)+b*sin(d*x+c))**3,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 132

2.4.433 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos(x) \sin(x)}{(a \cos(x) + b \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

[In] integrate(cos(x)*sin(x)/(a*cos(x)+b*sin(x))**2,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.2_trig^m-a_trig+b_trigⁿ.txt

Test file number 136

Integral number in file 284

2.4.434 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \cos(a + bx) \sin^3(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**m*cos(b*x+a)*sin(b*x+a)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 22**2.4.435 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^m \cot(a + bx) \csc^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**m*cos(b*x+a)*csc(b*x+a)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 45**2.4.436 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^m \cos^2(a + bx) \sin^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**m*cos(b*x+a)**2*sin(b*x+a)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 79

2.4.437 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \cos^2(a + bx) \sin^3(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**m*cos(b*x+a)**2*sin(b*x+a)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 88**2.4.438 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^m \cos^3(a + bx) \sin(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**m*cos(b*x+a)**3*sin(b*x+a),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 136**2.4.439 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^m \cos^3(a + bx) \sin^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**m*cos(b*x+a)**3*sin(b*x+a)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 145

2.4.440 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \cos^3(a + bx) \sin^3(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**m*cos(b*x+a)**3*sin(b*x+a)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 154**2.4.441 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^m \sin^2(a + bx) \tan(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**m*sec(b*x+a)*sin(b*x+a)**3,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 221**2.4.442 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\sin^2(a + bx) \tan(a + bx)}{c + dx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sec(b*x+a)*sin(b*x+a)**3/(d*x+c),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 225

2.4.443 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^2(a + bx) \tan(a + bx)}{(c + dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sec(b*x+a)*sin(b*x+a)**3/(d*x+c)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txtTest file number 137Integral number in file 226**2.4.444 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\sec(a + bx) \sin(3a + 3bx)}{c + dx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sec(b*x+a)*sin(3*b*x+3*a)/(d*x+c),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txtTest file number 137Integral number in file 386**2.4.445 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\sec(a + bx) \sin(3a + 3bx)}{(c + dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sec(b*x+a)*sin(3*b*x+3*a)/(d*x+c)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txtTest file number 137Integral number in file 387

2.4.446 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^3 \sec^2(a + bx) \sin(3a + 3bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**3*sec(b*x+a)**2*sin(3*b*x+3*a),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 389**2.4.447 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^2 \sec^2(a + bx) \sin(3a + 3bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)**2*sec(b*x+a)**2*sin(3*b*x+3*a),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 390**2.4.448 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx) \sec^2(a + bx) \sin(3a + 3bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((d*x+c)*sec(b*x+a)**2*sin(3*b*x+3*a),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txt

Test file number 137Integral number in file 391

2.4.449 Sympy [F(-2)]

Exception generated.

$$\int \frac{\sec^2(a + bx) \sin(3a + 3bx)}{c + dx} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sec(b*x+a)**2*sin(3*b*x+3*a)/(d*x+c),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txtTest file number 137Integral number in file 392**2.4.450 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\sec^2(a + bx) \sin(3a + 3bx)}{(c + dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(sec(b*x+a)**2*sin(3*b*x+3*a)/(d*x+c)**2,x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.3-c+d_x-^m_trig^n_trig^p.txtTest file number 137Integral number in file 393**2.4.451 Sympy [F(-2)]**

Exception generated.

$$\int \frac{A + C \sin(x)}{(b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

[In] integrate((A+C*sin(x))/(b*cos(x)+c*sin(x))**2,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txtTest file number 141Integral number in file 350

2.4.452 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{(b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((A+B*cos(x))/(b*cos(x)+c*sin(x))**2,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 353

2.4.453 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(d + ex)}{(b^2 + 2ab \tan(d + ex) + a^2 \tan^2(d + ex))^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((a+b*tan(e*x+d))/(b**2+2*a*b*tan(e*x+d)+a**2*tan(e*x+d)**2)**2,x)
```

```
[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 513

2.4.454 Sympy [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{(b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

```
[In] integrate((B*cos(x)+C*sin(x))/(b*cos(x)+c*sin(x))**2,x)
```

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 530

2.4.455 Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{(b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

[In] integrate((A+B*cos(x)+C*sin(x))/(b*cos(x)+c*sin(x))**2,x)

[Out] Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 533

2.4.456 Sympy [F(-2)]

Exception generated.

$$\int \sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate((c*tan(b*x+a)*tan(2*b*x+2*a))**(1/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 607

2.4.457 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c \tan(a + bx) \tan(2(a + bx))}} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(1/(c*tan(b*x+a)*tan(2*b*x+2*a))**(1/2),x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

input file name 4_Trig_functions/4.7_Miscellaneous/4.7.7_Trig_functions.txt

Test file number 141

Integral number in file 623

2.4.458 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*asin(c*x))/(d*x)**(1/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-^n.txt

Test file number 142

Integral number in file 206

2.4.459 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*asin(c*x))/(d*x)**(3/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
```

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 207

2.4.460 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(c*x))/(d*x)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 208

2.4.461 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(c*x))**2/(d*x)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-c_x-ⁿ.txt

Test file number 142

Integral number in file 212

2.4.462 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(c*x))**2/(d*x)**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 213

2.4.463 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(c*x))**2/(d*x)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 214

2.4.464 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(c*x))**3/(d*x)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 217

2.4.465 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(c*x))**3/(d*x)**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 218

2.4.466 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(c*x))**3/(d*x)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.2-d_x-^m-a+b_arcsin-
c_x-ⁿ.txt

Test file number 142

Integral number in file 219

2.4.467 Sympy [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a+b*asin(c*x))/(-c**2*d*x**2+d)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
 input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
 ^p-a+b_arcsin-c_x-^n.txt

Test file number 143Integral number in file 113**2.4.468 Sympy [F(-2)]**

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*(a+b*asin(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
 input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.4-f_x-^m-d+e_x^2-
 ^p-a+b_arcsin-c_x-^n.txt

Test file number 143Integral number in file 238**2.4.469 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)**3*(a+b*asin(c*x))/(-c**2*d*x**2+d)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 44

2.4.470 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)**2*(a+b*asin(c*x))/(-c**2*d*x**2+d)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 45

2.4.471 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*asin(c*x))/(-c**2*d*x**2+d)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 46

2.4.472 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)**3*(a+b*asin(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funcs.txt
```

Test file number 144

Integral number in file 70

2.4.473 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)**2*(a+b*asin(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_funcs.txt
```

Test file number 144

Integral number in file 71

2.4.474 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((g*x+f)*(a+b*asin(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)
```

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 72

2.4.475 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{\sqrt{ce + dex}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(d*x+c))/(d*e*x+c*e)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 285

2.4.476 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{\sqrt{ce + dex}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(d*x+c))**2/(d*e*x+c*e)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txt

Test file number 144

Integral number in file 295

2.4.477 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{\sqrt{ce + dex}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(d*x+c))**3/(d*e*x+c*e)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txtTest file number 144Integral number in file 301**2.4.478 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^4}{\sqrt{ce + dex}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asin(d*x+c))**4/(d*e*x+c*e)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.1_Inverse_sine/5.1.5_Inverse_sine_functions.txtTest file number 144Integral number in file 305**2.4.479 Sympy [F(-2)]**

Exception generated.

$$\int \frac{a + b \arccos(cx)}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))/(d*x)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
c_x-[^]n.txt

Test file number 145

Integral number in file 206

2.4.480 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))/(d*x)**(3/2), x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
c_x-[^]n.txt

Test file number 145

Integral number in file 207

2.4.481 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))/(d*x)**(5/2), x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-[^]m-a+b_arccos-
c_x-[^]n.txt

Test file number 145

Integral number in file 208

2.4.482 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))**2/(d*x)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 212

2.4.483 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))**2/(d*x)**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-^n.txt

Test file number 145

Integral number in file 213

2.4.484 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))**2/(d*x)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 214

2.4.485 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))**3/(d*x)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 217

2.4.486 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))**3/(d*x)**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-
c_x-ⁿ.txt

Test file number 145

Integral number in file 218

2.4.487 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*acos(c*x))**3/(d*x)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.2-d_x-^m-a+b_arccos-c_x-ⁿ.txt

Test file number 145

Integral number in file 219

2.4.488 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arccos(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)**3*(a+b*acos(c*x))/(-c**2*d*x**2+d)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 14

2.4.489 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arccos(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)**2*(a+b*acos(c*x))/(-c**2*d*x**2+d)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 15

2.4.490 Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arccos(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

[In] integrate((g*x+f)*(a+b*acos(c*x))/(-c**2*d*x**2+d)**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.2_Inverse_cosine/5.2.5_Inverse_cosine_functions.txt

Test file number 147

Integral number in file 16

2.4.491 Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x(d + icdx)^3} dx = \text{Exception raised: RecursionError}$$

[In] integrate((a+b*atan(c*x))/x/(d+I*c*d*x)**3,x)

[Out] Exception raised: RecursionError >> maximum recursion depth exceeded in comparison

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-^p.txt

Test file number 150

Integral number in file 63

2.4.492 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x(d + icdx)^3} dx = \text{Exception raised: RecursionError}$$

```
[In] integrate((a+b*atan(c*x))**2/x/(d+I*c*d*x)**3,x)
```

```
[Out] Exception raised: RecursionError >> maximum recursion depth exceeded in comparison
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 116

2.4.493 Sympy [F(-2)]

Exception generated.

$$\int (d + icdx)(a + b \arctan(cx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d+I*c*d*x)*(a+b*atan(c*x))**3,x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 122

2.4.494 Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{(c + a^2cx^2)^2} dx = \text{Exception raised: RecursionError}$$

```
[In] integrate(atan(a*x)/(a**2*c*x**2+c)**2,x)
```

[Out] Exception raised: RecursionError >> maximum recursion depth exceeded while calling a Python object

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 187

2.4.495 Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x(c+a^2cx^2)^2} dx = \text{Exception raised: RecursionError}$$

[In] integrate(atan(a*x)/x/(a**2*c*x**2+c)**2,x)

[Out] Exception raised: RecursionError >> maximum recursion depth exceeded

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 188

2.4.496 Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{(c+a^2cx^2)^3} dx = \text{Exception raised: RecursionError}$$

[In] integrate(atan(a*x)/(a**2*c*x**2+c)**3,x)

[Out] Exception raised: RecursionError >> maximum recursion depth exceeded in comparison

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 195

2.4.497 Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x(c+a^2cx^2)^3} dx = \text{Exception raised: RecursionError}$$

```
[In] integrate(atan(a*x)/x/(a**2*c*x**2+c)**3,x)
```

```
[Out] Exception raised: RecursionError >> maximum recursion depth exceeded
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt
```

```
Test file number 150
```

```
Integral number in file 196
```

2.4.498 Sympy [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)}{\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*atan(a*x)/(a**2*c*x**2+c)**(1/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt
```

```
Test file number 150
```

```
Integral number in file 226
```

2.4.499 Sympy [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(x*atan(a*x)/(a**2*c*x**2+c)**(3/2),x)
```

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 234

2.4.500 Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(atan(a*x)/x/(a**2*c*x**2+c)**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 236

2.4.501 Sympy [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)}{(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(x*atan(a*x)/(a**2*c*x**2+c)**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-[^]p.txt

Test file number 150

Integral number in file 244

2.4.502 Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(atan(a*x)/x/(a**2*c*x**2+c)**(5/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt
```

```
Test file number 150
```

```
Integral number in file 246
```

2.4.503 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^m(c+a^2cx^2)^{5/2}}{\arctan(ax)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(x**m*(a**2*c*x**2+c)**(5/2)/atan(a*x)**2,x)
```

```
[Out] Exception raised: HeuristicGCDFailed >> no luck
```

```
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt
```

```
Test file number 150
```

```
Integral number in file 604
```

2.4.504 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^m(c+a^2cx^2)^{5/2}}{\arctan(ax)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(x**m*(a**2*c*x**2+c)**(5/2)/atan(a*x)**3,x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 680

2.4.505 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))(d + e \log(1 + c^2x^2))}{x^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*atan(c*x))*(d+e*ln(c**2*x**2+1))/x**2,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1292

2.4.506 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))(d + e \log(1 + c^2x^2))}{x^4} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*atan(c*x))*(d+e*ln(c**2*x**2+1))/x**4,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-c_x-[^]p.txt

Test file number 150

Integral number in file 1294

2.4.507 Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))(d + e \log(1 + c^2x^2))}{x^6} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*atan(c*x))*(d+e*ln(c**2*x**2+1))/x**6,x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo
input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.4_u-a+b_arctan-
c_x-^p.txt
```

Test file number 150

Integral number in file 1296

2.4.508 Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*atan(c+(1+I*c)*tan(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 + exp(2*I*a) of t
ype <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_func-
tions.txt

Test file number 153

Integral number in file 52

2.4.509 Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*atan(c+(1+I*c)*tan(b*x+a)),x)
```

[Out] Exception raised: CoercionFailed >> Cannot convert $_t0^{**2} + \exp(2*I*a)$ of type <class 'sympy.core.add.Add'> to $QQ_I[x,b,_t0,\exp(I*a)]$

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 53

2.4.510 Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] `integrate(atan(c+(1+I*c)*tan(b*x+a)),x)`

[Out] Exception raised: CoercionFailed >> Cannot convert $_t0^{**2} + \exp(2*I*a)$ of type <class 'sympy.core.add.Add'> to $QQ_I[b,_t0,\exp(I*a)]$

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 54

2.4.511 Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (-1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] `integrate(x**2*atan(c+(-1+I*c)*tan(b*x+a)),x)`

[Out] Exception raised: CoercionFailed >> Cannot convert $_t0^{**2} + \exp(2*I*a)$ of type <class 'sympy.core.add.Add'> to $QQ_I[x,b,_t0,\exp(I*a)]$

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 56

2.4.512 Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (-1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*atan(c+(-1+I*c)*tan(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 + exp(2*I*a) of t
type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 57

2.4.513 Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (-1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(atan(c+(-1+I*c)*tan(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 + exp(2*I*a) of t
type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 58

2.4.514 Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(-x**2*atan(-c-(1-I*c)*cot(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 - exp(2*I*a) of t
type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 65

2.4.515 Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(-x*atan(-c-(1-I*c)*cot(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 - exp(2*I*a) of t
type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 66

2.4.516 Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(-atan(-c-(1-I*c)*cot(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 - exp(2*I*a) of t
type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 67

2.4.517 Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (-1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(-x**2*atan(-c-(-1-I*c)*cot(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 - exp(2*I*a) of t
type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 69

2.4.518 Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (-1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] integrate(-x*atan(-c-(-1-I*c)*cot(b*x+a)),x)

[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 - exp(2*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txtTest file number 153Integral number in file 70**2.4.519 Sympy [F(-2)]**

Exception generated.

$$\int \arctan(c + (-1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] integrate(-atan(-c-(-1-I*c)*cot(b*x+a)),x)

[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2 - exp(2*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(I*a)]

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txtTest file number 153Integral number in file 71

2.4.520 Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*atan(c+(I+c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) + 1 of t
ype <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_funct-
ions.txt

Test file number 153

Integral number in file 85

2.4.521 Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*atan(c+(I+c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) + 1 of t
ype <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_funct-
ions.txt

Test file number 153

Integral number in file 86

2.4.522 Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(atan(c+(I+c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) + 1 of t
ype <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_funct-
ions.txt

Test file number 153

Integral number in file 87

2.4.523 Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*atan(c-(I-c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) + 1 of t
ype <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_funct-
ions.txt

Test file number 153

Integral number in file 89

2.4.524 Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*atan(c-(I-c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) + 1 of t
ype <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_funct-
ions.txt

Test file number 153

Integral number in file 90

2.4.525 Sympy [F(-2)]

Exception generated.

$$\int \arctan(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(atan(c-(I-c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) + 1 of t
ype <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_funct-
ions.txt

Test file number 153

Integral number in file 91

2.4.526 Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*atan(c+(I+c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) - 1 of t
type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 102

2.4.527 Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*atan(c+(I+c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) - 1 of t
type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 103

2.4.528 Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] integrate(atan(c+(I+c)*coth(b*x+a)),x)

[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(a)]

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txtTest file number 153Integral number in file 104**2.4.529 Sympy [F(-2)]**

Exception generated.

$$\int x^2 \arctan(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] integrate(x**2*atan(c-(I-c)*coth(b*x+a)),x)

[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txtTest file number 153Integral number in file 106

2.4.530 Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*atan(c-(I-c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) - 1 of t
type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 107

2.4.531 Sympy [F(-2)]

Exception generated.

$$\int \arctan(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(atan(c-(I-c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*a) - 1 of t
type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.3_Inverse_tangent/5.3.7_Inverse_tangent_functions.txt

Test file number 153

Integral number in file 108

2.4.532 Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(x)}{(1+x^2)^2} dx = \text{Exception raised: RecursionError}$$

[In] `integrate(acot(x)/(x**2+1)**2,x)`

[Out] Exception raised: RecursionError >> maximum recursion depth exceeded in comparison

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 72

2.4.533 Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] `integrate(x**2*acot(c+(1+I*c)*tan(b*x+a)),x)`

[Out] Exception raised: CoercionFailed >> Cannot convert `_t0**2*I + 2*c*exp(2*I*a) - I*exp(2*I*a)` of type `<class 'sympy.core.add.Add'>` to `QQ_I[x,b,c,_t0,exp(I*a)]`

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 162

2.4.534 Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*acot(c+(1+I*c)*tan(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*I + 2*c*exp(2*I*a) - I*exp(2*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 163

2.4.535 Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(acot(c+(1+I*c)*tan(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert _t0**2*I + 2*c*exp(2*I*a) - I*exp(2*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 164

2.4.536 Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (1 - ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*acot(c-(1-I*c)*tan(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**4 - 3*_t0**2*I*c*exp(2*I*a) + _t0**2*exp(2*I*a) + 2*c**2*exp(4*I*a) + I*c*exp(4*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 166

2.4.537 Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (1 - ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*acot(c-(1-I*c)*tan(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**4 - 3*_t0**2*I*c*exp(2*I*a) + _t0**2*exp(2*I*a) + 2*c**2*exp(4*I*a) + I*c*exp(4*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 167

2.4.538 Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (1 - ic)\tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(acot(c-(1-I*c)*tan(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**4 - 3*_t0**2*I*c*exp(2*I*a) + _t0**2*exp(2*I*a) + 2*c**2*exp(4*I*a) + I*c*exp(4*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 168

2.4.539 Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (1 - ic)\cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*(pi-acot(-c-(1-I*c)*cot(b*x+a))),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**4 + 3*_t0**2*I*c*exp(2*I*a) - _t0**2*exp(2*I*a) + 2*c**2*exp(4*I*a) + I*c*exp(4*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 175

2.4.540 Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*(pi-acot(-c-(1-I*c)*cot(b*x+a))),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**4 + 3*_t0**2*I*c*exp(2*I*a) - _t0**2*exp(2*I*a) + 2*c**2*exp(4*I*a) + I*c*exp(4*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 176

2.4.541 Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(pi-acot(-c-(1-I*c)*cot(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**4 + 3*_t0**2*I*c*exp(2*I*a) - _t0**2*exp(2*I*a) + 2*c**2*exp(4*I*a) + I*c*exp(4*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 177

2.4.542 Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*(pi-acot(-c+(1+I*c)*cot(b*x+a))),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**2*I + 2*c*exp(2*I*a) - I*exp(2*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 179

2.4.543 Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*(pi-acot(-c+(1+I*c)*cot(b*x+a))),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**2*I + 2*c*exp(2*I*a) - I*exp(2*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 180

2.4.544 Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(pi-acot(-c+(1+I*c)*cot(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert -_t0**2*I + 2*c*exp(2*I*a) - I*exp(2*I*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(I*a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 181

2.4.545 Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*acot(c+(I+c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*a) + _t0**4*I*c*exp(4*a) - 3*_t0**2*I*c*exp(2*a) + _t0**2*exp(2*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 192

2.4.546 Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] integrate(x*acot(c+(I+c)*tanh(b*x+a)),x)

[Out] Exception raised: CoercionFailed >> Cannot convert $2*_t0^{**4}*c^{**2}*\exp(4*a) +$
 $_t0^{**4}*I*c*\exp(4*a) - 3*_t0^{**2}*I*c*\exp(2*a) + _t0^{**2}*\exp(2*a) - 1$ of type
 <class 'sympy.core.add.Add'> to $QQ_I[x,b,c,_t0,\exp(a)]$

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotan-
 gent_functions.txt

Test file number 154Integral number in file 193**2.4.547 Sympy [F(-2)]**

Exception generated.

$$\int \cot^{-1}(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

[In] integrate(acot(c+(I+c)*tanh(b*x+a)),x)

[Out] Exception raised: CoercionFailed >> Cannot convert $2*_t0^{**4}*c^{**2}*\exp(4*a) +$
 $_t0^{**4}*I*c*\exp(4*a) - 3*_t0^{**2}*I*c*\exp(2*a) + _t0^{**2}*\exp(2*a) - 1$ of type
 <class 'sympy.core.add.Add'> to $QQ_I[b,c,_t0,\exp(a)]$

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotan-
 gent_functions.txt

Test file number 154Integral number in file 194

2.4.548 Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*acot(c-(I-c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*a) - _t0**2*I*exp(2*a) + I of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 196

2.4.549 Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*acot(c-(I-c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*a) - _t0**2*I*exp(2*a) + I of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 197

2.4.550 Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(acot(c-(I-c)*tanh(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*a) - _t0**2*I*exp(2*a) + I of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 198

2.4.551 Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*acot(c+(I+c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*a) + _t0**4*I*c*exp(4*a) + 3*_t0**2*I*c*exp(2*a) - _t0**2*exp(2*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 209

2.4.552 Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*acot(c+(I+c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*a) +
_t0**4*I*c*exp(4*a) + 3*_t0**2*I*c*exp(2*a) - _t0**2*exp(2*a) - 1 of type
<class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 210

2.4.553 Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(acot(c+(I+c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*a) +
_t0**4*I*c*exp(4*a) + 3*_t0**2*I*c*exp(2*a) - _t0**2*exp(2*a) - 1 of type
<class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 211

2.4.554 Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x**2*acot(c-(I-c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*a) - _t0**2*I*exp(2*a) - I of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 213

2.4.555 Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(x*acot(c-(I-c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*a) - _t0**2*I*exp(2*a) - I of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 214

2.4.556 Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

```
[In] integrate(acot(c-(I-c)*coth(b*x+a)),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*a) - _t0**2*I*exp(2*a) - I of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(a)]
```

input file name 5_Inverse_trig_functions/5.4_Inverse_cotangent/5.4.1_Inverse_cotangent_functions.txt

Test file number 154

Integral number in file 215

2.4.557 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x+c)**m*sinh(b*x+a),x)
```

```
[Out] Exception raised: TypeError >> cannot determine truth value of Relational
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-^n.txt

Test file number 160

Integral number in file 75

2.4.558 Sympy [F(-2)]

Exception generated.

$$\int x^{3+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x**(3+m)*sinh(b*x+a),x)`[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txtTest file number 160Integral number in file 78**2.4.559 Sympy [F(-2)]**

Exception generated.

$$\int x^{2+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x**(2+m)*sinh(b*x+a),x)`[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txtTest file number 160Integral number in file 79**2.4.560 Sympy [F(-2)]**

Exception generated.

$$\int x^{1+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x**(1+m)*sinh(b*x+a),x)`

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh-
ⁿ.txt

Test file number 160

Integral number in file 80

2.4.561 Sympy [F(-2)]

Exception generated.

$$\int x^m \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**m*sinh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh-
ⁿ.txt

Test file number 160

Integral number in file 81

2.4.562 Sympy [F(-2)]

Exception generated.

$$\int x^{-1+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(-1+m)*sinh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^m-a+b_sinh-
ⁿ.txt

Test file number 160

Integral number in file 82

2.4.563 Sympy [F(-2)]

Exception generated.

$$\int x^{-2+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x**(-2+m)*sinh(b*x+a),x)`[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^-m-a+b_sinh-
^n.txtTest file number 160Integral number in file 83**2.4.564 Sympy [F(-2)]**

Exception generated.

$$\int x^{-3+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] `integrate(x**(-3+m)*sinh(b*x+a),x)`[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^-m-a+b_sinh-
^n.txtTest file number 160Integral number in file 84**2.4.565 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^m (a + ia \sinh(e + fx))^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate((d*x+c)**m*(a+I*a*sinh(f*x+e))**3,x)`

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 152

2.4.566 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + ia \sinh(e + fx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*(a+I*a*sinh(f*x+e))**2,x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 153

2.4.567 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + ia \sinh(e + fx)) dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*(a+I*a*sinh(f*x+e)),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-ⁿ.txt

Test file number 160

Integral number in file 154

2.4.568 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \sinh(e + fx))^3 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x+c)**m*(a+b*sinh(f*x+e))**3,x)
```

```
[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt
```

Test file number 160

Integral number in file 182

2.4.569 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \sinh(e + fx))^2 dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x+c)**m*(a+b*sinh(f*x+e))**2,x)
```

```
[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x-^m-a+b_sinh-
^n.txt
```

Test file number 160

Integral number in file 183

2.4.570 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \sinh(e + fx)) dx = \text{Exception raised: TypeError}$$

```
[In] integrate((d*x+c)**m*(a+b*sinh(f*x+e)),x)
```

```
[Out] Exception raised: TypeError >> cannot determine truth value of Relational
```

input file name 6_Hyperbolic_functions/6.1_Hyperbolic_sine/6.1.1-c+d_x^{-m-a+b}_sinh-
^n.txt

Test file number 160

Integral number in file 184

2.4.571 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*cosh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{-m-a+b}_cosh-
^n.txt

Test file number 165

Integral number in file 78

2.4.572 Sympy [F(-2)]

Exception generated.

$$\int x^{3+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(3+m)*cosh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{-m-a+b}_cosh-
^n.txt

Test file number 165

Integral number in file 81

2.4.573 Sympy [F(-2)]

Exception generated.

$$\int x^{2+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(2+m)*cosh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-ⁿ.txt

Test file number 165Integral number in file 82**2.4.574 Sympy [F(-2)]**

Exception generated.

$$\int x^{1+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(1+m)*cosh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-ⁿ.txt

Test file number 165Integral number in file 83**2.4.575 Sympy [F(-2)]**

Exception generated.

$$\int x^m \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**m*cosh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-ⁿ.txt

Test file number 165

Integral number in file 84

2.4.576 Sympy [F(-2)]

Exception generated.

$$\int x^{-1+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(-1+m)*cosh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-ⁿ.txt

Test file number 165

Integral number in file 85

2.4.577 Sympy [F(-2)]

Exception generated.

$$\int x^{-2+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(-2+m)*cosh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-ⁿ.txt

Test file number 165

Integral number in file 86

2.4.578 Sympy [F(-2)]

Exception generated.

$$\int x^{-3+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**(-3+m)*cosh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b_cosh-}
^{n.txt}

Test file number 165Integral number in file 87**2.4.579 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^m (a + a \cosh(e + fx))^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*(a+a*cosh(f*x+e))**3,x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b_cosh-}
^{n.txt}

Test file number 165Integral number in file 151**2.4.580 Sympy [F(-2)]**

Exception generated.

$$\int (c + dx)^m (a + a \cosh(e + fx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*(a+a*cosh(f*x+e))**2,x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b_cosh}
^{n.txt}

Test file number 165

Integral number in file 152

2.4.581 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + a \cosh(e + fx)) dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*(a+a*cosh(f*x+e)),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b_cosh}
^{n.txt}

Test file number 165

Integral number in file 153

2.4.582 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \cosh(e + fx))^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*(a+b*cosh(f*x+e))**3,x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x^{m-a+b_cosh}
^{n.txt}

Test file number 165

Integral number in file 179

2.4.583 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \cosh(e + fx))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*(a+b*cosh(f*x+e))**2,x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-ⁿ.txt

Test file number 165

Integral number in file 180

2.4.584 Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \cosh(e + fx)) dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**m*(a+b*cosh(f*x+e)),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.1-c+d_x-^m-a+b_cosh-ⁿ.txt

Test file number 165

Integral number in file 181

2.4.585 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{1 + \cosh^5(x)} dx = \text{Exception raised: ValueError}$$

[In] integrate(1/(1+cosh(x)**5),x)

[Out] Exception raised: ValueError >> Exceeds the limit (4300 digits) for integer string conversion; use sys.set_int_max_str_digits() to increase the limit

input file name 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/6.2.7_hyper^m-a+b_coshⁿ-^p.txt

Test file number 170

Integral number in file 70

2.4.586 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + b \coth(e + fx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**3/(a+b*coth(f*x+e))**2,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.1-c+d_x-^m-a+b_coth-ⁿ.txt

Test file number 174

Integral number in file 57

2.4.587 Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + b \coth(e + fx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)**2/(a+b*coth(f*x+e))**2,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.1-c+d_x-^m-a+b_coth-ⁿ.txt

Test file number 174

Integral number in file 58

2.4.588 Sympy [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + b \coth(e + fx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate((d*x+c)/(a+b*coth(f*x+e))**2,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.1-c+d_x-^m-a+b_co-th-^n.txt

Test file number 174Integral number in file 59**2.4.589 Sympy [F(-2)]**

Exception generated.

$$\int \frac{1}{(a + b \coth(c + dx))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*coth(d*x+c))**2,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175Integral number in file 82**2.4.590 Sympy [F(-2)]**

Exception generated.

$$\int \frac{1}{(a + b \coth(c + dx))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*coth(d*x+c))**3,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 83

2.4.591 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \coth(c + dx))^4} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*coth(d*x+c))**4,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 84

2.4.592 Sympy [F(-2)]

Exception generated.

$$\int \frac{\coth^3(a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(a+b*ln(c*x**n))**3/x,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 191

2.4.593 Sympy [F(-2)]

Exception generated.

$$\int \frac{\coth^4(a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(a+b*ln(c*x**n))**4/x,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 192

2.4.594 Sympy [F(-2)]

Exception generated.

$$\int \frac{\coth^5(a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

[In] integrate(coth(a+b*ln(c*x**n))**5/x,x)

[Out] Exception raised: TypeError >> Invalid NaN comparison

input file name 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/6.4.2_Hyperbolic_cotangent_functions.txt

Test file number 175

Integral number in file 193

2.4.595 Sympy [F(-2)]

Exception generated.

$$\int x^m \cosh(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

[In] integrate(x**m*cosh(b*x+a)*sinh(b*x+a),x)

[Out] Exception raised: TypeError >> cannot determine truth value of Relational
input file name 6_Hyperbolic_functions/6.7_Miscellaneous/6.7.1_Hyperbolic_functions.txt

Test file number 185

Integral number in file 250

2.4.596 Sympy [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^{3/2} (a + \operatorname{arcsinh}(cx))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] `integrate(x**2*(c**2*d*x**2+d)**(3/2)*(a+b*asinh(c*x))**n,x)`

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.4-f_x^-m-d+e_x^2-^p-a+b_arcsinh-c_x-^n.txt

Test file number 187

Integral number in file 517

2.4.597 Sympy [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^4 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*asinh(I+d*x**2))**4,x)`

[Out] Exception raised: TypeError >> Invalid comparison of non-real I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 314

2.4.598 Sympy [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^3 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*asinh(I+d*x**2))**3,x)`

[Out] Exception raised: TypeError >> Invalid comparison of non-real I
 input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 315

2.4.599 Sympy [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^2 dx = \text{Exception raised: TypeError}$$

[In] `integrate((a+b*asinh(I+d*x**2))**2,x)`

[Out] Exception raised: TypeError >> Invalid comparison of non-real I
 input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 316

2.4.600 Sympy [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2)) dx = \text{Exception raised: TypeError}$$

[In] `integrate(a+b*asinh(I+d*x**2),x)`

[Out] Exception raised: TypeError >> Invalid comparison of non-real I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 317

2.4.601 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{a + ib \arcsin(1 - idx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(I+d*x**2)),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 318

2.4.602 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(I+d*x**2))**2,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 319

2.4.603 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(I+d*x**2))**3,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real I
 input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188Integral number in file 320**2.4.604 Sympy [F(-2)]**

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^4 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asinh(-I+d*x**2))**4,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
 input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188Integral number in file 321**2.4.605 Sympy [F(-2)]**

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^3 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asinh(-I+d*x**2))**3,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 322

2.4.606 Sympy [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^2 dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asinh(-I+d*x**2))**2,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 323

2.4.607 Sympy [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2)) dx = \text{Exception raised: TypeError}$$

[In] integrate(a+b*asinh(-I+d*x**2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 324

2.4.608 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{a - ib \arcsin(1 + idx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(-I+d*x**2)),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
 input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188Integral number in file 325**2.4.609 Sympy [F(-2)]**

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^2} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(-I+d*x**2))**2,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
 input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188Integral number in file 326**2.4.610 Sympy [F(-2)]**

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^3} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(-I+d*x**2))**3,x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 327

2.4.611 Sympy [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asinh(I+d*x**2))**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 328

2.4.612 Sympy [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asinh(I+d*x**2))**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 329

2.4.613 Sympy [F(-2)]

Exception generated.

$$\int \sqrt{a + ib \arcsin(1 - idx^2)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((a+b*asinh(I+d*x**2))**(1/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt
```

Test file number 188

Integral number in file 330

2.4.614 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ib \arcsin(1 - idx^2)}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*asinh(I+d*x**2))**(1/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt
```

Test file number 188

Integral number in file 331

2.4.615 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*asinh(I+d*x**2))**(3/2),x)
```


[Out] Exception raised: TypeError >> Invalid comparison of non-real I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 332

2.4.616 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(I+d*x**2))**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 333

2.4.617 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(I+d*x**2))**(7/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 334

2.4.618 Sympy [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asinh(-I+d*x**2))**(5/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
 input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188Integral number in file 335**2.4.619 Sympy [F(-2)]**

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asinh(-I+d*x**2))**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
 input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188Integral number in file 336**2.4.620 Sympy [F(-2)]**

Exception generated.

$$\int \sqrt{a - ib \arcsin(1 + idx^2)} dx = \text{Exception raised: TypeError}$$

[In] integrate((a+b*asinh(-I+d*x**2))**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 337

2.4.621 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - ib \arcsin(1 + idx^2)}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(-I+d*x**2))**(1/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 338

2.4.622 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a+b*asinh(-I+d*x**2))**(3/2),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real -I

input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_Inverse_hyperbolic_sine_functions.txt

Test file number 188

Integral number in file 339

2.4.623 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*asinh(-I+d*x**2))**(5/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt
```

Test file number 188

Integral number in file 340

2.4.624 Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(1/(a+b*asinh(-I+d*x**2))**(7/2),x)
```

```
[Out] Exception raised: TypeError >> Invalid comparison of non-real -I
input file name 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/7.1.5_In-
verse_hyperbolic_sine_functions.txt
```

Test file number 188

Integral number in file 341

2.4.625 Sympy [F(-2)]

Exception generated.

$$\int e^{n \arctanh(ax)} (c - acx)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

```
[In] integrate(exp(n*atanh(a*x))*(-a*c*x+c)**(5/2),x)
```

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 279

2.4.626 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{(c - acx)^{7/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(exp(n*atanh(a*x))/(-a*c*x+c)**(7/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 285

2.4.627 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

[In] integrate(1/(a*x+1)*(-a**2*x**2+1)**(1/2)/(c-c/a/x),x)

[Out] Exception raised: TypeError >> Invalid comparison of non-real zoo

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 489

2.4.628 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(exp(n*atanh(a*x))/(c-c/a**2/x**2)**(5/2), x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions.txt

Test file number 196

Integral number in file 799

2.4.629 Sympy [F(-2)]

Exception generated.

$$\int x^{-1+n} \operatorname{arctanh}(a + bx^n) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**(-1+n)*atanh(a+b*x**n), x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/7.3.7_Inverse_hyperbolic_tangent_functions.txt

Test file number 197

Integral number in file 29

2.4.630 Sympy [F(-2)]

Exception generated.

$$\int x^{-1+n} \operatorname{coth}^{-1}(a + bx^n) dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(x**(-1+n)*acoth(a+b*x**n), x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.1_Inverse_hyperbolic_cotangent_functions.txt

Test file number 198

Integral number in file 294

2.4.631 Sympy [F(-2)]

Exception generated.

$$\int e^{n \coth^{-1}(ax)} (c - acx)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(exp(n*acoth(a*x))*(-a*c*x+c)**(5/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 372

2.4.632 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)}}{(c - acx)^{7/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

[In] integrate(exp(n*acoth(a*x))/(-a*c*x+c)**(7/2),x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions.txt

Test file number 199

Integral number in file 378

2.4.633 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8 - 3x) \log^2(x) + (-4 - x) \log^2(x) \log(4x^2 + x^3) + (-8 - 2x + (-8 - 2x) \log(x) + (20x^2 + 5x^3) \log(x)) \log^2(x)}{(4x + x^2) \log^2(x) \log(4x^2 + x^3) + ((8x + 2x^2) \log(x) + (8x^2 + 22x^3 + 5x^4) \log^2(x)) \log^2(4x + x^2)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((5*x**3+20*x**2)*ln(x)**2+(-2*x-8)*ln(x)-2*x-8)*ln(x**3+4*x**2)**2+(-4-x)*ln(x)**2*ln(x**3+4*x**2)+(-3*x-8)*ln(x)**2)/(((5*x**4+22*x**3+8*x**2)*ln(x)**2+(2*x**2+8*x)*ln(x))*ln(x**3+4*x**2)**2+(x**2+4*x)*ln(x)**2*ln(x**3+4*x**2)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(25*_t0**2*x**6 + 120*_t0**2*x**5 + 84*_t0**2*x**4 + 16*_t0**2*x**3 + 20*_t0*x**4 + 88*_t0*x**3 + 32*_t0*x**2 + 4*x**2 + 16*x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 8**2.4.634 Sympy [F(-2)]**

Exception generated.

$$\int \frac{e^2(100 + 40x + 4x^2) + e^2(100 + 40x + 4x^2) \log(x) + (20x^3 - 4e^5x^3) \log^3(x)}{e^2(-25x - 10x^2 - x^3) \log(x) + (10x^4 + 2x^5 + e^5(10x^3 + 2x^4)) \log^3(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((-4*x**3*exp(5)+20*x**3)*ln(x)**3+(4*x**2+40*x+100)*exp(2)*ln(x)+(4*x**2+40*x+100)*exp(2))/(((2*x**4+10*x**3)*exp(5)+2*x**5+10*x**4)*ln(x)**3+(-x**3-10*x**2-25*x)*exp(2)*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(4*x**10 + 16*x**9*exp(5) + 24*x**8*exp(10) + 16*x**7*exp(15) + 4*x**6*exp(20)) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 21

2.4.635 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{18}{2x^2+x^2\log(x)}}(-90+4x^2+(-36+4x^2)\log(x)+x^2\log^2(x))}{4x^2+4x^2\log(x)+x^2\log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((x**2*ln(x)**2+(4*x**2-36)*ln(x)+4*x**2-90)*exp(18/(x**2*ln(x)+2*x**2))/(x**2*ln(x)**2+4*x**2*ln(x)+4*x**2), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 86

2.4.636 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{14x/5}(-360-165x-15x^2)+(45x+15x^2+e^{14x/5}(888x+447x^2+42x^3))\log(x)+(-360-165x-(360x+285x^2+70x^3+5x^4)\log^2(x))}{(360x+285x^2+70x^3+5x^4)\log^2(x)}$$

```
[In] integrate(((((-15*x**2-120*x)*ln(x)-15*x**2-165*x-360)*ln(x+8)+((42*x**3+447*x**2+888*x)*exp(2/5*x)**2*exp(x)**2+15*x**2+45*x)*ln(x)+(-15*x**2-165*x-360)*exp(2/5*x)**2*exp(x)**2)/(5*x**4+70*x**3+285*x**2+360*x)/ln(x)**2, x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 89

2.4.637 Sympy [F(-2)]

Exception generated.

$$\int \frac{100 - 105x + 31x^2 + 3e^{2x}x^2 + e^x(-30x + 24x^2 - x^3) + (30x - 19x^2 - 6e^xx^2) \log(x)}{75 + 10x - 83x^2 + 30x^3 + e^{2x}(3x^2 + 3x^3) + e^x(-30x - 17x^2 + 19x^3) + (30x + 17x^2 - 19x^3 + e^x(-6x^2 + 3x^3)) \ln(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((3*x**2*ln(x)**2+(-6*exp(x)*x**2-19*x**2+30*x)*ln(x)+3*exp(x)**2*x**2+(-x**3+24*x**2-30*x)*exp(x)+31*x**2-105*x+100)/((3*x**3+3*x**2)*ln(x)**2+((-6*x**3-6*x**2)*exp(x)-19*x**3+17*x**2+30*x)*ln(x)+(3*x**3+3*x**2)*exp(x)**2+(19*x**3-17*x**2-30*x)*exp(x)+30*x**3-83*x**2+10*x+75), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(3*x**4 + 6*x**3 + 3*x**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 99

2.4.638 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4x^3}{11x-2e^{2x}-2x^2+2\log(x)}}(-8x^2 + 88x^3 - 16e^2x^3 - 8x^4 + 24x^2 \log(x))}{121x^2 + 4e^4x^2 - 44x^3 + 4x^4 + e^2(-44x^2 + 8x^3) + (44x - 8e^2x - 8x^2) \log(x) + 4 \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((24*x**2*ln(x)-16*x**3*exp(2)-8*x**4+88*x**3-8*x**2)*exp(2*x**3/(2*ln(x)-2*exp(2)*x-2*x**2+11*x))**2/(4*ln(x)**2+(-8*exp(2)*x-8*x**2+44*x)*ln(x)+4*x**2*exp(2)**2+(8*x**3-44*x**2)*exp(2)+4*x**4-44*x**3+121*x**2), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 152

2.4.639 Sympy [F(-2)]

Exception generated.

$$\int \frac{3 - 3x + (-12 + 3x - 3 \log(x)) \log(4 - x + \log(x)) + (64 + e^2(32 - 8x) + e^4(4 - x) - 16x + (16 + (-12x + 3x^2 - 3x \log(x)) \log(4 - x + \log(x)) + (64x - 16x^2 + e^2(32x - 8x^2) + e^4(4x - x^2) + (16x +$$

= Exception raised: PolynomialError

```
[In] integrate((((exp(2)**2+8*exp(2)+16)*ln(x)+(-x+4)*exp(2)**2+(-8*x+32)*exp(2)
-16*x+64)*ln(ln(x)-x+4)**2+(-3*ln(x)+3*x-12)*ln(ln(x)-x+4)-3*x+3)/(((x*exp(
2)**2+8*exp(2)*x+16*x)*ln(x)+(-x**2+4*x)*exp(2)**2+(-8*x**2+32*x)*exp(2)-16
*x**2+64*x)*ln(ln(x)-x+4)**2+(-3*x*ln(x)+3*x**2-12*x)*ln(ln(x)-x+4)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(-_t0*x + x**2 - 4*x) contains an el
ement of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 211

2.4.640 Sympy [F(-2)]

Exception generated.

$$\int \frac{-2x + 2 \log(x) + (x - \log(x)) \log(2x^2) + (1 - x) \log(2x^2) \log\left(\frac{x}{\log(2x^2)}\right)}{(x^3 - 2x^2 \log(x) + x \log^2(x)) \log(2x^2)} dx$$

= Exception raised: TypeError

```
[In] integrate(((1-x)*ln(2*x**2)*ln(x/ln(2*x**2))+(x-ln(x))*ln(2*x**2)+2*ln(x)-2
*x)/(x*ln(x)**2-2*x**2*ln(x)+x**3)/ln(2*x**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 222

2.4.641 Sympy [F(-2)]

Exception generated.

$$\int \frac{3750x + 300x^2 + 6x^3 + (4000x^2 + 300x^3 + 6x^4) \log(x) + ((4000x^2 + 310x^3 + 6x^4) \log(x) + (3750x + 300x^2 + 6x^3) \log(x) + (2000x + 155x^2 + 3x^3) \log(x) + (1000x + 155x^2 + 3x^3) \log(x) + (3750x + 300x^2 + 6x^3) \log(x))}{(2000x + 155x^2 + 3x^3) \log(x) + (1000x + 155x^2 + 3x^3) \log(x) + (3750x + 300x^2 + 6x^3) \log(x)}$$

= Exception raised: TypeError

```
[In] integrate((((6*x**3+300*x**2+3750*x)*ln(x)*ln(ln(x))+(6*x**4+310*x**3+4000*x**2)*ln(x))*ln((9*x**2+450*x+5625)*ln(ln(x))**2+(18*x**3+930*x**2+12000*x)*ln(ln(x))+9*x**4+480*x**3+6400*x**2)/(9*x**2+450*x+5625))+(6*x**4+300*x**3+4000*x**2)*ln(x)+6*x**3+300*x**2+3750*x)/((3*x**2+150*x+1875)*ln(x)*ln(ln(x)))+(3*x**3+155*x**2+2000*x)*ln(x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 255

2.4.642 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^3 \log(2) + (18x^2 - 3x^3) \log(2) \log(6 - x) + (12x - 2x^2 + (-12 + 2x) \log(2)) \log^2(6 - x)}{(6x^3 - x^4) \log(2) \log(6 - x) + (6x^2 - x^3 + (6 - 13x + 2x^2) \log(2)) \log^2(6 - x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((2*x-12)*ln(2)-2*x**2+12*x)*ln(-x+6)**2+(-3*x**3+18*x**2)*ln(2)*ln(-x+6)+x**3*ln(2))/(((2*x**2-13*x+6)*ln(2)-x**3+6*x**2)*ln(-x+6)**2+(-x**4+6*x**3)*ln(2)*ln(-x+6)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**5 - 6*x**4 - 4*x**4*log(2) + 4*x**3*log(2)**2 + 26*x**3*log(2) - 28*x**2*log(2)**2 - 12*x**2*log(2) + 25*x*log(2)**2 - 6*log(2)**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 256

2.4.643 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^x \left(e^{1+\frac{1}{4}(-2+x)} (36 - 27x + 3x^2) + e(144 - 144x + 16x^2) \right)}{192x^2 + 96e^{\frac{1}{4}(-2+x)}x^2 + 12e^{\frac{1}{2}(-2+x)}x^2} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((3*x**2-27*x+36)*exp(1)*exp(1/4*x-1/2)+(16*x**2-144*x+144)*exp(1
)))*exp(x)/(12*x**2*exp(1/4*x-1/2)**2+96*x**2*exp(1/4*x-1/2)+192*x**2),x)
```

```
[Out] Exception raised: PolynomialError >> (3*_t0**5*x**2*exp(6) - 27*_t0**5*x*ex
p(6) + 36*_t0**5*exp(6) + 16*_t0**4*x**2*exp(13/2) - 144*_t0**4*x*exp(13/2)
+ 144*_t0**4*exp(13/2))/(12*_t0**2*x**2*exp(9/2) + 96*_t0*x**2*exp(5) + 19
2*x**2*exp(1
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 275

2.4.644 Sympy [F(-2)]

Exception generated.

$$\int \frac{4x + (-4x + x^3) \log(x) + (-4x + 3x^2) \log(x) \log\left(\frac{\log(x)}{x}\right) + 3x \log(x) \log^2\left(\frac{\log(x)}{x}\right) + \log(x) \log^3\left(\frac{\log(x)}{x}\right)}{(-7x^3 + x^4) \log(x) + (-17x^2 + 3x^3) \log(x) \log\left(\frac{\log(x)}{x}\right) + (-15x + 3x^2) \log(x) \log^2\left(\frac{\log(x)}{x}\right) + (-5 + x) \log^3\left(\frac{\log(x)}{x}\right)}$$

= Exception raised: PolynomialError

```
[In] integrate((ln(x)*ln(ln(x)/x)**3+3*x*ln(x)*ln(ln(x)/x)**2+(3*x**2-4*x)*ln(x)
*ln(ln(x)/x)+(x**3-4*x)*ln(x)+4*x)/((-5+x)*ln(x)*ln(ln(x)/x)**3+(3*x**2-15*
x)*ln(x)*ln(ln(x)/x)**2+(3*x**3-17*x**2)*ln(x)*ln(ln(x)/x)+(x**4-7*x**3)*ln
(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(_t0**2*x**4 - 20*_t0**2*x**3 + 150*
_t0**2*x**2 - 500*_t0**2*x + 625*_t0**2) contains an element of the set of
generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 280

2.4.645 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{4+2x+2\log(x^2)}} (-16 + 8x + 20x^2 + 6x^3 + (-16 + 17x + 11x^2) \log(x^2) + (-4 + 6x) \log^2(x^2))}{8x^3 - 8x^4 - 6x^5 + 4x^6 + 2x^7 + (8x^3 - 12x^4 + 4x^6) \log(x^2) + (2x^3 - 4x^4 + 2x^5) \log^2(x^2)} dx$$

= Exception raised: TypeError

```
[In] integrate(((6*x-4)*ln(x**2)**2+(11*x**2+17*x-16)*ln(x**2)+6*x**3+20*x**2+8*x-16)*exp(x/(2*ln(x**2)+2*x+4))/((2*x**5-4*x**4+2*x**3)*ln(x**2)**2+(4*x**6-12*x**4+8*x**3)*ln(x**2)+2*x**7+4*x**6-6*x**5-8*x**4+8*x**3),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 284

2.4.646 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^3(-3 + 5x - x^2) + e^6(-12 + 20x - 4x^2) \log(x) + (e^6(-12x + 4x^2) + e^6(12 - 30x^2 - 10x^3 + (-30x + 10x^2) \log(3x - x^2) + \log(x) (e^3(240x^2 - 80x^3) + e^3(-240x + 80x^2) \log(3x -$$

= Exception raised: TypeError

```
[In] integrate(((((-4*x+12)*exp(3)**2*ln(-x**2+3*x)+(4*x**2-12*x)*exp(3)**2)*ln(1n(-x**2+3*x)-x)+(-4*x**2+20*x-12)*exp(3)**2*ln(x)+(-x**2+5*x-3)*exp(3)))/(((160*x**2-480*x)*exp(3)**2*ln(-x**2+3*x)+(-160*x**3+480*x**2)*exp(3)**2)*ln(x)**2+((80*x**2-240*x)*exp(3)*ln(-x**2+3*x)+(-80*x**3+240*x**2)*exp(3))*ln(x)+(10*x**2-30*x)*ln(-x**2+3*x)-10*x**3+30*x**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 307

2.4.647 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-4x^2+x^2 \log(\log(x))} (-5 + 40 \log(x) - 10 \log(x) \log(\log(x)))}{16x^3 \log(x) - 8x^3 \log(x) \log(\log(x)) + x^3 \log(x) \log^2(\log(x))} dx$$

= Exception raised: TypeError

```
[In] integrate((-10*ln(x)*ln(ln(x))+40*ln(x)-5)*exp(5/(x**2*ln(ln(x))-4*x**2))/(x**3*ln(x)*ln(ln(x))**2-8*x**3*ln(x)*ln(ln(x))+16*x**3*ln(x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 330

2.4.648 Sympy [F(-2)]

Exception generated.

$$\int \frac{4x^3 \log(x) \log^2(\log(x)) + e^{\frac{-8x-5e^3x+x^2-10\log(\log(x))}{\log(\log(x))}} (8 + 5e^3 - x + (-8 - 5e^3 + 2x) \log(x) \log(\log(x))) + e^{-\log(x) \log(\log(x))}}{\log(x) \log(\log(x))} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-5*exp(3)+2*x-8)*ln(x)*ln(ln(x))+5*exp(3)+8-x)*exp(1/2*(-10*ln(ln(x))-5*x*exp(3)+x**2-8*x)/ln(ln(x))))**2+(4*x*ln(x)*ln(ln(x))**2+(-5*x**2*exp(3)+2*x**3-8*x**2)*ln(x)*ln(ln(x))+5*x**2*exp(3)-x**3+8*x**2)*exp(1/2*(-10*ln(ln(x))-5*x*exp(3)+x**2-8*x)/ln(ln(x))))+4*x**3*ln(x)*ln(ln(x))**2)/ln(x)/ln(ln(x))**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 473

2.4.649 Sympy [F(-2)]

Exception generated.

$$\int \frac{(12 + 6x) \log^2\left(\frac{x}{2+x}\right) + e^{\frac{5x}{\log\left(\frac{x}{2+x}\right)}} \left(-20 + (20 + 10x) \log\left(\frac{x}{2+x}\right)\right)}{(2+x) \log^2\left(\frac{x}{2+x}\right)} dx$$

= Exception raised: TypeError

```
[In] integrate((((10*x+20)*ln(x/(2+x))-20)*exp(5*x/ln(x/(2+x)))+(6*x+12)*ln(x/(2+x))**2)/(2+x)/ln(x/(2+x))**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 598

2.4.650 Sympy [F(-2)]

Exception generated.

$$\int \frac{1 - 11x + 4x^2 + (-8 - 8x) \log(2 + 2x) + (-20 - 20x) \log^2(2 + 2x)}{-15 - 4x + 9x^2 - 2x^3 + (-60 - 28x + 28x^2 - 4x^3) \log(2 + 2x) + (-60 - 40x + 20x^2) \log^2(2 + 2x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((20*x**2-40*x-60)*ln(2+2*x)**2+(-4*x**3+28*x**2-28*x-60)*ln(2+2*x)-2*x**3+9*x**2-4*x-15),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(5*x + 5) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 618

2.4.651 Sympy [F(-2)]

Exception generated.

$$\int \frac{(4 - 4x^2) \log(5) + (-1 + x^2) \log^2(5) \log(-1 + x) + ((-4 + 4x^2 + e^7(-4 - 4x + 8x^2)) \log(5) + e^7(-x - 1) \log(5)) \log(-1 + x)}{(-16x^2 - 16x^3 + 16x^4 + 16x^5)} dx$$

= Exception raised: TypeError

```
[In] integrate((((-2*x**2+x+1)*ln(5)**2*ln(-1+x)+(-x**2-x)*ln(5)**2+(8*x**2-4*x-4)*ln(5))*ln(x)*ln(ln(x)/x)+((-2*x**2+x+1)*exp(7)-x**2+1)*ln(5)**2*ln(-1+x)+(-x**2-x)*exp(7)*ln(5)**2+((8*x**2-4*x-4)*exp(7)+4*x**2-4)*ln(5))*ln(x)+(x**2-1)*ln(5)**2*ln(-1+x)+(-4*x**2+4)*ln(5))/((x**5+x**4-x**3-x**2)*ln(5)**2*ln(-1+x)**2+(-8*x**5-8*x**4+8*x**3+8*x**2)*ln(5)*ln(-1+x)+16*x**5+16*x**4-16*x**3-16*x**2)/ln(x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 675

2.4.652 Sympy [F(-2)]

Exception generated.

$$\int \frac{8 + (80 - 20x) \log\left(\frac{324}{16-8x+x^2}\right) + (-4 + 21x - 5x^2) \log^2\left(\frac{324}{16-8x+x^2}\right)}{(-80 + 20x) \log\left(\frac{324}{16-8x+x^2}\right) + (-20x + 5x^2) \log^2\left(\frac{324}{16-8x+x^2}\right)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((-5*x**2+21*x-4)*ln(324/(x**2-8*x+16))**2+(-20*x+80)*ln(324/(x**2-8*x+16))+8)/((5*x**2-20*x)*ln(324/(x**2-8*x+16))**2+(20*x-80)*ln(324/(x**2-8*x+16))),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(5*x**3 - 20*x**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 694

2.4.653 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8x^2 + 2x^3 - 2x^4) \log(5) \log\left(\frac{1}{4}(-4x + x^2 - x^3)\right) + (16 - 8x + 12x^2 + (-4x^2 + 2x^3 - 3x^4) \log(5)) \log\left(\frac{1}{4}(-4x + x^2 - x^3)\right)}{(-16x + 4x^2 - 4x^3 + (4x^3 - x^4 + x^5) \log(5)) \log\left(\frac{1}{4}(-4x + x^2 - x^3)\right)}$$

= Exception raised: TypeError

```
[In] integrate(((2*x**4-2*x**3+8*x**2)*ln(5)*ln(-1/4*x**3+1/4*x**2-x)*ln(ln(-1/4*x**3+1/4*x**2-x))+((-3*x**4+2*x**3-4*x**2)*ln(5)+12*x**2-8*x+16)*ln(x**2*ln(5)-4)+(-2*x**4+2*x**3-8*x**2)*ln(5)*ln(-1/4*x**3+1/4*x**2-x))/((x**5-x**4+4*x**3)*ln(5)-4*x**3+4*x**2-16*x)/ln(-1/4*x**3+1/4*x**2-x)/ln(x**2*ln(5)-4)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 700

2.4.654 Sympy [F(-2)]

Exception generated.

$$\int \frac{3 + x^2 + e^4 x^2 + (2x + 2e^4 x) \log(3) + (1 + e^4) \log^2(3) + e^{2x}(x^4 + e^4 x^4) \log(3)}{-3x - x^2 + x^3 + e^4 x^3 + (-3 - 2x + 2x^2 + 2e^4 x^2) \log(3) + (-1 + x + e^4 x) \log^2(3) + e^x (3x^3 + (6x^2 + 3x) \log(3))}$$

= Exception raised: PolynomialError

```
[In] integrate(((x**4*exp(4)+x**4)*ln(3)**2*exp(x)**2+((-2*x**2*exp(4)-2*x**2)*ln(3)**2+(-2*x**3*exp(4)-2*x**3)*ln(3)+3*x**3+3*x**2)*exp(x)+(exp(4)+1)*ln(3)**2+(2*x*exp(4)+2*x)*ln(3)+x**2*exp(4)+x**2+3))/(((x**5*exp(4)+x**5-x**4)*ln(3)**2-3*x**4*ln(3))*exp(x)**2+((-2*x**3*exp(4)-2*x**3+2*x**2)*ln(3)**2+(-2*x**4*exp(4)-2*x**4+2*x**3+6*x**2)*ln(3)+3*x**3)*exp(x)+(x*exp(4)+x-1)*ln(3)**2+(2*x**2*exp(4)+2*x**2-2*x-3)*ln(3)+x**3*exp(4)+x**3-x**2-3*x),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**5*log(3)**3 + 2*x**5*exp(4)*log(3)**3 + x**5*exp(8)*log(3)**3 - 6*x**4*exp(4)*log(3)**2 - 2*x**4*exp(4)*log(3)**3 - 6*x**4*log(3)**2 - 2*x**4*log(3)**3 + x**3*log(3)**3 + 6*x**3*log(3)**2 + 9*x*
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 702

2.4.655 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{x}{\log(2x)}} (e^{-4+x} x^2 - e^{-4+x} x^2 \log(2x) + e^{-4+x} (2x + x^2) \log^2(2x))}{\log^2(2x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((x**2+2*x)*exp(x-4)*ln(2*x)**2-x**2*exp(x-4)*ln(2*x)+x**2*exp(x-4))/ln(2*x)**2/exp(x/ln(2*x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 743

2.4.656 Sympy [F(-2)]

Exception generated.

$$\int \frac{-10 + 4x + (-2 + 2x - x^2) \log(x) + (2 - x) \log\left(-\frac{x}{-2+x}\right)}{-2x + x^2 + (-4x + 2x^2) \log(x) + (-2x + x^2) \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((x**2+2*x-2)*ln(x)+(2-x)*ln(-x/(-2+x))+4*x-10)/((x**2-2*x)*ln(x)**2+(2*x**2-4*x)*ln(x)+x**2-2*x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 778

2.4.657 Sympy [F(-2)]

Exception generated.

$$\int 4^{\frac{-16-8x-x^2}{-2-2x+2\log(\log(x^2))}} \frac{((32 + 48x + 18x^2 + 2x^3) \log(4) + (2 + 8x + 10x^2 + 4x^3 + (-8x - 6x^2 + 3x^3 + x^4) \log(4)))}{(2 + 4x + 2x^2) \log(x^2) + (-4 - 4x - 4x^2) \log(x^2)}$$

= Exception raised: TypeError

```
[In] integrate(((4*x+2)*ln(x**2)*ln(ln(x**2))**2+(2*(-2*x**3-10*x**2-8*x)*ln(2)-
8*x**2-12*x-4)*ln(x**2)*ln(ln(x**2)))+(2*(x**4+3*x**3-6*x**2-8*x)*ln(2)+4*x*
*3+10*x**2+8*x+2)*ln(x**2)+2*(2*x**3+18*x**2+48*x+32)*ln(2))*exp(2*(-x**2-8
*x-16)*ln(2)/(2*ln(ln(x**2))-2*x-2))/(2*ln(x**2)*ln(ln(x**2))**2+(-4-4*x)*l
n(x**2)*ln(ln(x**2))+(2*x**2+4*x+2)*ln(x**2)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 835

2.4.658 Sympy [F(-2)]

Exception generated.

$$\int \frac{-8 - 2x + (7 + 9x - 15x^2 - 2x^3) \log(x) + (-x - 2x^2) \log^2(x) + (1 + 2x) \log(x) \log(\log(x))}{(64x + 32x^2 + 4x^3) \log(x) + (16x + 4x^2) \log^2(x) + x \log^3(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((1+2*x)*ln(x)*ln(ln(x))+(-2*x**2-x)*ln(x)**2+(-2*x**3-15*x**2+9*
x+7)*ln(x)-2*x-8)/(x*ln(x)**3+(4*x**2+16*x)*ln(x)**2+(4*x**3+32*x**2+64*x)*
ln(x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 917

2.4.659 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^4(-1 + 17x - 4x^2 - 12x^3 + 3x^4) + e^4(4x - 3x^3) \log(x) + (e^4(20 - 5x - 12x^2 + 3x^3) + e^4(5 - 3x^2) \log(x))}{4x - x^2 + x}$$

= Exception raised: TypeError

```
[In] integrate((((-exp(4)*ln(x)+(x-4)*exp(4))*ln(-ln(x)+x-4)-x*exp(4)*ln(x)+(x**2-4*x)*exp(4))*ln(ln(-ln(x)+x-4)+x)+((-3*x**2+5)*exp(4)*ln(x)+(3*x**3-12*x**2-5*x+20)*exp(4))*ln(-ln(x)+x-4)+(-3*x**3+4*x)*exp(4)*ln(x)+(3*x**4-12*x**3-4*x**2+17*x-1)*exp(4))/((ln(x)-x+4)*ln(-ln(x)+x-4)+x*ln(x)-x**2+4*x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1003

2.4.660 Sympy [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{x+4 \log\left(\frac{(-4+4x) \log(4)}{5x}\right)}{\log\left(\frac{(-4+4x) \log(4)}{5x}\right)}\right)^{\frac{1}{\log(x^2)}} \left(-x \log(x^2) + (-x + x^2) \log(x^2) \log\left(\frac{(-4+4x) \log(4)}{5x}\right) + (2x - 2x^2) \log\left(\frac{(-4+4x) \log(4)}{5x}\right)\right)}{(-x^2 + x^3) \log^2(x^2) \log\left(\frac{(-4+4x) \log(4)}{5x}\right) + (-4x + 4x^2) \log\left(\frac{(-4+4x) \log(4)}{5x}\right)}$$

= Exception raised: TypeError

```
[In] integrate(((((-8*x+8)*ln(2/5*(-4+4*x))*ln(2)/x)**2+(-2*x**2+2*x)*ln(2/5*(-4+4*x))*ln(2)/x))*ln((4*ln(2/5*(-4+4*x))*ln(2)/x)+x)/ln(2/5*(-4+4*x))*ln(2)/x)+(x**2-x)*ln(x**2)*ln(2/5*(-4+4*x))*ln(2)/x-x*ln(x**2))*exp(ln((4*ln(2/5*(-4+4*x))*ln(2)/x)+x)/ln(2/5*(-4+4*x))*ln(2)/x)/ln(x**2))/((4*x**2-4*x)*ln(x**2)**2*ln(2/5*(-4+4*x))*ln(2)/x)**2+(x**3-x**2)*ln(x**2)**2*ln(2/5*(-4+4*x))*ln(2)/x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1049

2.4.661 Sympy [F(-2)]

Exception generated.

$$\int \frac{4 + 4 \log\left(\frac{5 \log(3)}{e^2 x}\right) + (-4 - 8x) \log^2\left(\frac{5 \log(3)}{e^2 x}\right) + \left(-2 - 2 \log\left(\frac{5 \log(3)}{e^2 x}\right) + (2 + 4x) \log^2\left(\frac{5 \log(3)}{e^2 x}\right)\right) \log\left(\frac{x}{-}\right)}{-x \log\left(\frac{5 \log(3)}{e^2 x}\right) + (x + x^2) \log^2\left(\frac{5 \log(3)}{e^2 x}\right)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((4*x+2)*ln(5*ln(3)/exp(2)/x)**2-2*ln(5*ln(3)/exp(2)/x)-2)*ln(((
-x**2-x)*ln(5*ln(3)/exp(2)/x)+x)/ln(5*ln(3)/exp(2)/x))+(-8*x-4)*ln(5*ln(3)/
exp(2)/x)**2+4*ln(5*ln(3)/exp(2)/x)+4)/((x**2+x)*ln(5*ln(3)/exp(2)/x)**2-x*
ln(5*ln(3)/exp(2)/x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**3 + 2*x**2 + x) contains an elem
ent of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1116

2.4.662 Sympy [F(-2)]

Exception generated.

$$\int e^{-\frac{x}{\log\left(\frac{48x}{4+3x}\right)}} \frac{(1036 + (-1036 - 777x) \log\left(\frac{48x}{4+3x}\right))}{(4 + 3x) \log^2\left(\frac{48x}{4+3x}\right)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(((((-777*x-1036)*ln(48*x/(4+3*x))+1036)/(4+3*x)/ln(48*x/(4+3*x))**2
/exp(x/ln(48*x/(4+3*x)))),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1259

2.4.663 Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{3-x+3\log\left(\frac{-20-5x-2x^2}{6x}\right)}{\log\left(\frac{-20-5x-2x^2}{6x}\right)}} \frac{\left(60-20x-6x^2+2x^3+(-20x-5x^2-2x^3)\log\left(\frac{-20-5x-2x^2}{6x}\right)\right)}{(20x+5x^2+2x^3)\log^2\left(\frac{-20-5x-2x^2}{6x}\right)} dx$$

= Exception raised: TypeError

```
[In] integrate((( -2*x**3-5*x**2-20*x)*ln(1/6*(-2*x**2-5*x-20)/x)+2*x**3-6*x**2-20*x+60)*exp((3*ln(1/6*(-2*x**2-5*x-20)/x)+3-x)/ln(1/6*(-2*x**2-5*x-20)/x))/(2*x**3+5*x**2+20*x)/ln(1/6*(-2*x**2-5*x-20)/x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1276

2.4.664 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{2+2x}(36-9x)+4x-x^2+e^{1+x}(8x-6x^2+x^3)+(-8x+2x^2+e^{1+x}(-72+18x))\log(x)+(36-9x)}{e^{1+x}x^2+e^{2+2x}(48+9x)+}$$

= Exception raised: PolynomialError

```
[In] integrate(((( -9*x-48)*ln(x)**2+((18*x+96)*exp(1+x)+x**2)*ln(x)+(-9*x-48)*exp(1+x)**2-x**2*exp(1+x))*ln((( -9*x-48)*ln(x)+(9*x+48)*exp(1+x)+x**2)/(12*ln(x)-12*exp(1+x)))+(-9*x+36)*ln(x)**2+((18*x-72)*exp(1+x)+2*x**2-8*x)*ln(x)+(-9*x+36)*exp(1+x)**2+(x**3-6*x**2+8*x)*exp(1+x)-x**2+4*x)/((9*x+48)*ln(x)**2+((-18*x-96)*exp(1+x)-x**2)*ln(x)+(9*x+48)*exp(1+x)**2+x**2*exp(1+x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(27*x**3 + 288*x**2 + 768*x) contain s an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1296

2.4.665 Sympy [F(-2)]

Exception generated.

$$\int \frac{100 + 40x + 4x^2 + (-50 - 40x - 6x^2) \log(x) + (10x + 2x^2) \log^2(x) - 4x \log^3(x) + (-4 + 2x) \log^4(x)}{(x \ln(x))^4 - 2x \ln(x)^3} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-50*ln(x)+100)*ln(ln(x)-2)**4+100*ln(x)*ln(ln(x)-2)**3+(-10*x*ln(x)**2+(40*x+100)*ln(x)-40*x-200)*ln(ln(x)-2)**2+(-20*ln(x)**3+(-20*x-100)*ln(x))*ln(ln(x)-2)+2*ln(x)**5+(2*x-4)*ln(x)**4-4*x*ln(x)**3+(2*x**2+10*x)*ln(x)**2+(-6*x**2-40*x-50)*ln(x)+4*x**2+40*x+100)/(x*ln(x)**4-2*x*ln(x)**3),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1331

2.4.666 Sympy [F(-2)]

Exception generated.

$$\int \frac{(64 - 16x) \log(x) + (-64x + 16x^2) \log(x) \log(2x) + (64 - 16x + (64 - 48x) \log(x)) \log(2x) \log\left(\frac{e^x}{\log(2x)}\right)}{(-64x^2 + 48x^3 - 12x^4 + x^5) \log^2(x) \log(2x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-48*x+64)*ln(x)-16*x+64)*ln(2*x)*ln(exp(x)/ln(2*x)))+(16*x**2-64*x)*ln(x)*ln(2*x)+(-16*x+64)*ln(x))/(x**5-12*x**4+48*x**3-64*x**2)/ln(x)**2/ln(2*x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1387

2.4.667 Sympy [F(-2)]

Exception generated.

$$\int \frac{-240x - 48x^2 + (240x + 48x^2) \log(x) + ((240x + 96x^2) \log(x) + (45 + 18x) \log^2(x)) \log\left(\frac{16x+3\log(x)}{\log(x)}\right)}{(16x \log(x) + 3 \log^2(x)) \log\left(\frac{16x+3\log(x)}{\log(x)}\right)} dx$$

= Exception raised: TypeError

```
[In] integrate((((18*x+45)*ln(x)**2+(96*x**2+240*x)*ln(x))*ln((3*ln(x)+16*x)/ln(x))*ln(2*ln((3*ln(x)+16*x)/ln(x)))+(48*x**2+240*x)*ln(x)-48*x**2-240*x)/(3*ln(x)**2+16*x*ln(x))/ln((3*ln(x)+16*x)/ln(x)), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1455

2.4.668 Sympy [F(-2)]

Exception generated.

$$\int \frac{-45 + 39x - 56x^2 + 40x^3 - 11x^4 + x^5 + (-45 + 30x - 170x^2 + 119x^3 - 58x^4 + 13x^5 - x^6) \log(x) + (45x - 39x^2 + 56x^3 - 40x^4 + 11x^5 - x^6) \log(x) + (9x^3 - 6x^4 + 19x^5 - 12x^6) \log^2(x)}{(45x - 39x^2 + 56x^3 - 40x^4 + 11x^5 - x^6) \log(x) + (9x^3 - 6x^4 + 19x^5 - 12x^6) \log^2(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((x**9-5*x**8-4*x**7-x**6-11*x**5+13*x**4-6*x**3+9*x**2)*ln(x)**2+(-x**6+13*x**5-58*x**4+119*x**3-170*x**2+30*x-45)*ln(x)+x**5-11*x**4+40*x**3-56*x**2+39*x-45)/((x**9-6*x**8+11*x**7-12*x**6+19*x**5-6*x**4+9*x**3)*ln(x)**2+(-x**6+11*x**5-40*x**4+56*x**3-39*x**2+45*x)*ln(x)), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**7 + 2*x**5 + x**3) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1506

2.4.669 Sympy [F(-2)]

Exception generated.

$$\int \frac{x - 21x^2 + 20x^3 + e^5(-20x + 20x^2) + x \log(4x) + (-2x + 2x^2 + e^5(-2 + 2x) + (-e^5 - x) \log(4x))}{20x^3 - 40x^4 + 20x^5 + e^5(20x^2 - 40x^3 + 20x^4) + (40x^3 - 40x^4 + e^5(40x^2 - 40x^3)) \log(4x) + (20e^5x^2 - 40e^5x^3 + 20e^5x^4) \log^2(4x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-exp(5)-x)*ln(4*x))+(-2+2*x)*exp(5)+2*x**2-2*x)*ln(exp(5)+x)+x*ln(4*x)+(20*x**2-20*x)*exp(5)+20*x**3-21*x**2+x)/((20*x**2*exp(5)+20*x**3)*ln(4*x)**2+((-40*x**3+40*x**2)*exp(5)-40*x**4+40*x**3)*ln(4*x)+(20*x**4-40*x**3+20*x**2)*exp(5)+20*x**5-40*x**4+20*x**3),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1587

2.4.670 Sympy [F(-2)]

Exception generated.

$$\int \frac{(5x + 4e^3x) \log(x) + (-19 + e^3(8 - 4x) - 5x) \log\left(\frac{1}{5}(38 + 10x + e^3(-16 + 8x))\right)}{(19x + 5x^2 + e^3(-8x + 4x^2)) \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-4*x+8)*exp(3)-5*x-19)*ln(1/5*(8*x-16)*exp(3)+2*x+38/5)+(4*x*exp(3)+5*x)*ln(x))/((4*x**2-8*x)*exp(3)+5*x**2+19*x)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1657

2.4.671 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8x + 4x^2) \log(-2 + x) \log\left(\frac{1}{2}(1 + 2x)\right) + (-2x - 4x^2 + (2 + 3x - 2x^2) \log(-2 + x)) \log^2\left(\frac{1}{2}(1 + 2x)\right)}{(-2x^2 - 3x^3 + 2x^4) \log^3(-2 + x)}$$

= Exception raised: TypeError

```
[In] integrate(((((-2*x**2+3*x+2)*ln(-2+x)-4*x**2-2*x)*ln(1/2+x)**2+(4*x**2-8*x)*
ln(-2+x)*ln(1/2+x))/(2*x**4-3*x**3-2*x**2)/ln(-2+x)**3,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1661

2.4.672 Sympy [F(-2)]

Exception generated.

$$\int \frac{4x^5 + x^3 \log(x) + (-32x^3 \log\left(\frac{4}{x}\right) + 64x^3 \log\left(\frac{4}{x}\right) \log(x)) \log\left(\log\left(\frac{4}{x}\right)\right) \log\left(\log\left(\log\left(\frac{4}{x}\right)\right)\right) \log\left(\log\left(\log\left(\log\left(\frac{4}{x}\right)\right)\right)\right)}{(64x^6 \log\left(\frac{4}{x}\right) + 48x^4 \log\left(\frac{4}{x}\right) \log(x) + 12x^2 \log\left(\frac{4}{x}\right) \log^2(x)) \log^3\left(\frac{4}{x}\right)}$$

= Exception raised: TypeError

```
[In] integrate(((((-4*x**3*ln(4/x)*ln(x)+2*x**3*ln(4/x))*ln(ln(4/x))*ln(ln(ln(4/x)
))*ln(ln(ln(ln(4/x))))*ln(ln(ln(ln(ln(4/x)))))))+(64*x**3*ln(4/x)*ln(x)-32*x*
*3*ln(4/x))*ln(ln(4/x))*ln(ln(ln(4/x)))*ln(ln(ln(ln(4/x)))))+x**3*ln(x)+4*x*
*5)/(ln(4/x)*ln(x)**3+12*x**2*ln(4/x)*ln(x)**2+48*x**4*ln(4/x)*ln(x)+64*x**
6*ln(4/x))/ln(ln(4/x))/ln(ln(ln(4/x)))/ln(ln(ln(ln(4/x))))),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1705

2.4.673 Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log^2(\log(x)) + e^{\frac{2x^2}{\log(\log(x))}} (-2x + 4x \log(x) \log(\log(x)))}{\log(x) \log^2(\log(x))} dx$$

= Exception raised: TypeError

```
[In] integrate(((4*x*ln(x)*ln(ln(x))-2*x)*exp(x**2/ln(ln(x))))**2+ln(x)*ln(ln(x))
**2)/ln(x)/ln(ln(x))**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1820

2.4.674 Sympy [F(-2)]

Exception generated.

$$\int \frac{4 + (1 + x) \log\left(\frac{3}{x^2}\right) \log^2\left(\log^2\left(\frac{3}{x^2}\right)\right)}{x \log\left(\frac{3}{x^2}\right) \log\left(\log^2\left(\frac{3}{x^2}\right)\right) + ((-x + x^2) \log\left(\frac{3}{x^2}\right) + x \log\left(\frac{3}{x^2}\right) \log(x)) \log^2\left(\log^2\left(\frac{3}{x^2}\right)\right)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((1+x)*ln(3/x**2)*ln(ln(3/x**2)**2)**2+4)/((x*ln(3/x**2)*ln(x)+(x
**2-x)*ln(3/x**2))*ln(ln(3/x**2)**2)**2+x*ln(3/x**2)*ln(ln(3/x**2)**2)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(2*_t0**3*x + 4*_t0**2*x**2 - 4*_t0*
*2*x - _t0**2*x*log(3) + 2*_t0*x**3 - 4*_t0*x**2 - 2*_t0*x**2*log(3) + 2*_t
0*x + 2*_t0*x*log(3) - x**3*log(3) + 2*x**2*log(3) - x*log(3)) contains an
element of t
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1945

2.4.675 Sympy [F(-2)]

Exception generated.

$$\int \frac{2x^3 - 4x^4 + (6x - 12x^2 - 4x^3 + 3x^4 + x^5) \log(-x + x^2) + (-12x + 6x^2 + 6x^3) \log^2(-x + x^2) + (-10x^4 + x^5) \log(-x + x^2) + (-6x^2 + 6x^3) \log^2(-x + x^2) + (-9 + 8x + x^2) \log^3(-x + x^2)}{(-x^4 + x^5) \log(-x + x^2) + (-6x^2 + 6x^3) \log^2(-x + x^2) + (-9 + 8x + x^2) \log^3(-x + x^2)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((x**2+9*x-10)*ln(x**2-x)**3+(6*x**3+6*x**2-12*x)*ln(x**2-x)**2+(x**5+3*x**4-4*x**3-12*x**2+6*x)*ln(x**2-x)-4*x**4+2*x**3)/((x**2+8*x-9)*ln(x**2-x)**3+(6*x**3-6*x**2)*ln(x**2-x)**2+(x**5-x**4)*ln(x**2-x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**6 + 34*x**5 + 415*x**4 + 1980*x**3 + 1215*x**2 - 10206*x + 6561) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 1951

2.4.676 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-2-x}{(-x+2x^3)\log(x)}} (-2 - x + 4x^2 + 2x^3 + (-2 + 12x^2 + 4x^3) \log(x))}{(x^2 - 4x^4 + 4x^6) \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((4*x**3+12*x**2-2)*ln(x)+2*x**3+4*x**2-x-2)*exp((-2-x)/(2*x**3-x)/ln(x))/(4*x**6-4*x**4+x**2)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2019

2.4.677 Sympy [F(-2)]

Exception generated.

$$\int \frac{4x^3 + 4x^2 \log(5) + (x - 8x^4 + (1 - 8x^2 - 8x^3) \log(5)) \log(x) \log(\log(x)) + (4x^2 + 4x \log(5) + (-12x^3 - 12x^2 \log(5) - 8x \log(5) - 8) \log(x) \log(\log(x))) \log(x) \log(\log(x))}{1} dx$$

= Exception raised: TypeError

```
[In] integrate((((-4*x*ln(5)-4*x**2)*ln(x)*ln(ln(x))*ln(x**2/(ln(5)**2+2*x*ln(5)+x**2)/ln(ln(x))))**2+(((12*x**2-8*x)*ln(5)-12*x**3)*ln(x)*ln(ln(x))+4*x*ln(5)+4*x**2)*ln(x**2/(ln(5)**2+2*x*ln(5)+x**2)/ln(ln(x)))+((-8*x**3-8*x**2+1)*ln(5)-8*x**4+x)*ln(x)*ln(ln(x))+4*x**2*ln(5)+4*x**3)/(2*ln(5)+2*x)/ln(x)/ln(ln(x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2117

2.4.678 Sympy [F(-2)]

Exception generated.

$$\int \frac{(320 + 1264x + 1740x^2 + 925x^3 + 125x^4) \log\left(\frac{5+x}{5}\right) + (250x + 50x^2 + (250x + 50x^2) \log(2)) \log^2\left(\frac{5+x}{5}\right)}{(320x + 1264x^2 + 1740x^3 + 925x^4 + 125x^5) \log(x) \log\left(\frac{5+x}{5}\right) + (-320x - 1264x^2 - 1740x^3 - 925x^4 - 125x^5) \log(x) \log\left(\frac{5+x}{5}\right)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((((-50*x**2-250*x)*ln(1+1/5*x)-125*x**4-300*x**3-240*x**2-64*x)*ln(x)+((50*x**2+250*x)*ln(2)+50*x**2+250*x)*ln(1+1/5*x)**2+(125*x**4+925*x**3+1740*x**2+1264*x+320)*ln(1+1/5*x)))/((125*x**5+925*x**4+1740*x**3+1264*x**2+320*x)*ln(1+1/5*x)*ln(x)+((-125*x**5-925*x**4-1740*x**3-1264*x**2-320*x)*ln(2)-125*x**5-925*x**4-1740*x**3-1264*x**2-320*x)*ln(1+1/5*x)**2),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**2*log(2) + x**2 + 5*x*log(2) + 5*x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2164

2.4.679 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{135x}{-5x^2+\log(x)}} (-270x + 1350x^3 + 50x^4 + (270x - 20x^2) \log(x) + 2 \log^2(x))}{375x^4 - 150x^2 \log(x) + 15 \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((2*ln(x)**2+(-20*x**2+270*x)*ln(x)+50*x**4+1350*x**3-270*x)*exp(135*x/(ln(x)-5*x**2)))/(15*ln(x)**2-150*x**2*ln(x)+375*x**4), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2240

2.4.680 Sympy [F(-2)]

Exception generated.

$$\int \frac{8x - 16x^3 - 16x^4 + e^8(-48x^3 - 48x^4) + e^{12}(16x^3 + 16x^4) + e^4(-8x + 48x^3 + 48x^4) + (-4 + 24x^2 + 16x^3 - 16x^4 + 48e^4x^3)}{-16x^4 + 48e^4x^3}$$

= Exception raised: TypeError

```
[In] integrate((((16*x*exp(4)-16*x+8)*ln(x)+32*x*exp(4)-32*x+16)*ln(ln(x)+2)+(1+x)*ln(x)**4+((6*x**2+6*x)*exp(4)-6*x**2-4*x+2)*ln(x)**3+((12*x**3+12*x**2)*exp(4)**2+(-24*x**3-12*x**2+12*x)*exp(4)+12*x**3-12*x)*ln(x)**2+((8*x**4+8*x**3)*exp(4)**3+(-24*x**4+24*x**2)*exp(4)**2+(24*x**4-24*x**3-48*x**2)*exp(4)-8*x**4+16*x**3+24*x**2-4)*ln(x)+(16*x**4+16*x**3)*exp(4)**3+(-48*x**4-48*x**3)*exp(4)**2+(48*x**4+48*x**3-8*x)*exp(4)-16*x**4-16*x**3+8*x)/(x*ln(x)**4+(6*x**2*exp(4)-6*x**2+2*x)*ln(x)**3+(12*x**3*exp(4)**2+(-24*x**3+12*x**2)*exp(4)+12*x**3-12*x**2)*ln(x)**2+(8*x**4*exp(4)**3+(-24*x**4+24*x**3)*exp(4)**2+(24*x**4-48*x**3)*exp(4)-8*x**4+24*x**3)*ln(x)+16*x**4*exp(4)**3-48*x**4*exp(4)**2+48*x**4*exp(4)-16*x**4), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2277

2.4.681 Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2 + 2x \log(x) + \log^2(x) + e^{\frac{2(25+ex^2+ex \log(x))}{x^2+x \log(x)}} (-25 - 50x + x^3 + (-25 + 2x^2) \log(x) + x \log^2(x))}{x^2 + 2x \log(x) + \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((x*ln(x)**2+(2*x**2-25)*ln(x)+x**3-50*x-25)*exp((x*exp(1)*ln(x)+
x**2*exp(1)+25)/(x*ln(x)+x**2))**2+ln(x)**2+2*x*ln(x)+x**2)/(ln(x)**2+2*x*ln(x)+x**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2344

2.4.682 Sympy [F(-2)]

Exception generated.

$$\int \frac{-4 \log^2(2x) + e^{-e^{\frac{6x^2}{\log(2x)}} + 2x} \left((1 + 2x) \log^2(2x) + e^{\frac{6x^2}{\log(2x)}} (6x^2 - 12x^2 \log(2x)) \right)}{\log^2(2x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-12*x**2*ln(2*x)+6*x**2)*exp(6*x**2/ln(2*x)))+(1+2*x)*ln(2*x)**
2)*exp(-exp(6*x**2/ln(2*x))+2*x)-4*ln(2*x)**2)/ln(2*x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2387

2.4.683 Sympy [F(-2)]

Exception generated.

$$\int \frac{-4x \log(x) + 4e^{2x+4e^{2x}x^2} x^2 (8+8x) \log(x) + (2x + e^{4e^{2x}x^2} (-2 - 2\log(x)) + 2x \log(x)) \log(e^{8e^{2x}x^2} - 2)}{e^{4e^{2x}x^2} x^2 \log^2(x) - x^3 \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate(((((-2*ln(x)-2)*exp(exp(ln(2*x)+x)**2)+2*x*ln(x)+2*x)*ln(exp(exp(ln(2*x)+x)**2)**2-2*x*exp(exp(ln(2*x)+x)**2)+x**2)+(8*x+8)*ln(x)*exp(ln(2*x)+x)**2*exp(exp(ln(2*x)+x)**2)-4*x*ln(x))/(x**2*ln(x)**2*exp(exp(ln(2*x)+x)**2)-x**3*ln(x)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2398

2.4.684 Sympy [F(-2)]

Exception generated.

$$\int e^{-x+\log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2)\log(x)+\log^2(x)}{e^{6x^2}}\right)} \frac{(-2x + e^3(3x^2 - x^4) + (-2 + x - x^2 - 2e^3x^2) \log(x) + 2 \log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2)\log(x)+\log^2(x)}{e^{6x^2}}\right))}{e^3(-3x^3+x^4)+x^2\log(x)+(e^3(6x^2-2x^3)-2x\log(x))\log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2)\log(x)+\log^2(x)}{e^{6x^2}}\right)}$$

= Exception raised: TypeError

```
[In] integrate(((ln(x)**2+((x**2-3*x)*exp(3)+2*x+1)*ln(x)+(2*x**3-5*x**2-3*x)*exp(3))*ln((ln(x)**2+(2*x**2-6*x)*exp(3)*ln(x)+(x**4-6*x**3+9*x**2)*exp(3)**2)/x**2/exp(3)**2)+2*ln(x)**2+(-2*x**2*exp(3)-x**2+x-2)*ln(x)+(-x**4+3*x**2)*exp(3)-2*x)*exp((x*ln(x)+x**2)/(ln((ln(x)**2+(2*x**2-6*x)*exp(3)*ln(x)+(x**4-6*x**3+9*x**2)*exp(3)**2)/x**2/exp(3)**2)-x))/((ln(x)+(x**2-3*x)*exp(3))*ln((ln(x)**2+(2*x**2-6*x)*exp(3)*ln(x)+(x**4-6*x**3+9*x**2)*exp(3)**2)/x**2/exp(3)**2)**2+(-2*x*ln(x)+(-2*x**3+6*x**2)*exp(3))*ln((ln(x)**2+(2*x**2-6*x)*exp(3)*ln(x)+(x**4-6*x**3+9*x**2)*exp(3)**2)/x**2/exp(3)**2)+x**2*ln(x)+(x**4-3*x**3)*exp(3)),x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2405

2.4.685 Sympy [F(-2)]

Exception generated.

$$\int \frac{(16 - 12x^2 + 4x^3 + e^3(-16x^2 - 16x^3 + 28x^4 - 8x^5) + e^3(-16x - 16x^2 + 28x^3 - 8x^4) \log(x)) \log(\log^2(x^2 + \dots))}{(x^2 + \dots)}$$

= Exception raised: TypeError

```
[In] integrate((((2*x**2-4*x)*ln(x)+2*x**3-4*x**2)*ln((x+ln(x))/exp((x**2+x+2)*exp(3)))*ln(ln((x+ln(x))/exp((x**2+x+2)*exp(3))))**2)**2+((-8*x**4+28*x**3-16*x**2-16*x)*exp(3)*ln(x)+(-8*x**5+28*x**4-16*x**3-16*x**2)*exp(3)+4*x**3-12*x**2+16)*ln(ln((x+ln(x))/exp((x**2+x+2)*exp(3))))**2)/(x*ln(x)+x**2)/ln((x+ln(x))/exp((x**2+x+2)*exp(3))),x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2423

2.4.686 Sympy [F(-2)]

Exception generated.

$$\int \frac{240x^2 + 100x^3 + e^x(240x + 100x^2) + (-120x + 50x^2 + e^x(-20x - 50x^2)) \log(x) + (e^x(-120 - 50x) - \dots)}{(12x^3 + 5x^4 + e^x(12x^2 + 5x^3)) \log(x)}$$

= Exception raised: TypeError

```
[In] integrate(((((-50*x-120)*exp(x)-50*x**2-120*x)*ln(x)+(-50*x-120)*exp(x)-50*x**2-120*x)*ln((25*x**2+120*x+144)/(exp(x)+x)))+((-50*x**2-20*x)*exp(x)+50*x
```

```
**2-120*x)*ln(x)+(100*x**2+240*x)*exp(x)+100*x**3+240*x**2)/((5*x**3+12*x**2)*exp(x)+5*x**4+12*x**3)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2508

2.4.687 Sympy [F(-2)]

Exception generated.

$$\int \frac{-8e^{2x} + e^{e^{e^5} + 2x}(10 - 30x + 10x^2) + (-16e^{2x} + e^{e^{e^5} + 2x}(70 - 80x + 20x^2)) \log\left(\frac{1}{5}\left(4 + e^{e^{e^5}}(-30 + 25x)\right)\right)}{-4 + e^{e^{e^5}}(30 - 25x)}$$

= Exception raised: CoercionFailed

```
[In] integrate((((10*x**2-50*x+60)*exp(x)**2*exp(exp(exp(5)))-8*exp(x)**2)*ln(1/5*(-5*x**2+25*x-30)*exp(exp(exp(5)))+4/5)**2+((20*x**2-80*x+70)*exp(x)**2*exp(exp(exp(5)))-16*exp(x)**2)*ln(1/5*(-5*x**2+25*x-30)*exp(exp(exp(5)))+4/5)+(10*x**2-30*x+10)*exp(x)**2*exp(exp(exp(5)))-8*exp(x)**2)/((5*x**2-25*x+30)*exp(exp(exp(5)))-4),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert 5*exp(exp(exp(5))) of type <class 'sympy.core.mul.Mul'> to ZZ[exp(exp(exp(5))/2),sqrt(16 + 5*exp(exp(exp(5))))]
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2531

2.4.688 Sympy [F(-2)]

Exception generated.

$$\int \frac{16 \log^2(x^2) + e^{2e^{\frac{x}{\log(x^2)}} + 4x} \left((1 + 4x) \log^2(x^2) + e^{\frac{x}{\log(x^2)} + \frac{x}{\log(x^2)}} (-4x + 2x \log(x^2)) \right) + e^{e^{\frac{x}{\log(x^2)} + 2x} \left(\right)}{\log^2(x^2)}$$

= Exception raised: TypeError

```
[In] integrate((((2*x*ln(x**2)-4*x)*exp(x/ln(x**2))*exp(exp(x/ln(x**2))))+(1+4*x)
*ln(x**2)**2)*exp(exp(exp(x/ln(x**2)))+2*x)**2+((8*x*ln(x**2)-16*x)*exp(x/ln(x**2))
*exp(exp(x/ln(x**2)))+(16*x+8)*ln(x**2)**2)*exp(exp(exp(x/ln(x**2))
)+2*x)+16*ln(x**2)**2)/ln(x**2)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly'
and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2569

2.4.689 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-15+5x}{(39x-8x^2-4x^3+x^4)\log(x)}} (-585 + 315x + 20x^2 - 35x^3 + 5x^4 + (-585 + 240x + 140x^2 - 100x^3 + 15x^4) \log(x))}{(1521x^2 - 624x^3 - 248x^4 + 142x^5 - 8x^7 + x^8) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((((15*x**4-100*x**3+140*x**2+240*x-585)*ln(x)+5*x**4-35*x**3+20*x**
2+315*x-585)*exp((5*x-15)/(x**4-4*x**3-8*x**2+39*x)/ln(x))/(x**8-8*x**7+14
2*x**5-248*x**4-624*x**3+1521*x**2)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly'
and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2570

2.4.690 Sympy [F(-2)]

Exception generated.

$$\int \frac{-6 - 24x + (-1 - 6x) \log(2x) + (24x + 4 \log(x) + (6x + \log(x)) \log(2x) + (8 + 2 \log(2x)) \log(4 + \log(2x)))}{24x + 4 \log(x) + (6x + \log(x)) \log(2x) + (8 + 2 \log(2x)) \log(4 + \log(2x))} dx$$

= Exception raised: TypeError

```
[In] integrate((((2*ln(2*x)+8)*ln(ln(2*x)+4)+(ln(x)+6*x)*ln(2*x)+4*ln(x)+24*x)*ln(8/(2*ln(ln(2*x)+4)+ln(x)+6*x))+(-6*x-1)*ln(2*x)-24*x-6)/((2*ln(2*x)+8)*ln(ln(2*x)+4)+(ln(x)+6*x)*ln(2*x)+4*ln(x)+24*x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 2849**2.4.691 Sympy [F(-2)]**

Exception generated.

$$\int \frac{1 + \log\left(\frac{3}{2x}\right) + \log^2\left(\frac{3}{2x}\right)}{x \log\left(\frac{3}{2x}\right) + (28 + x + \log(2)) \log^2\left(\frac{3}{2x}\right)} dx = \text{Exception raised: PolynomialError}$$

```
[In] integrate((ln(3/2/x)**2+ln(3/2/x)+1)/((ln(2)+x+28)*ln(3/2/x)**2+x*ln(3/2/x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**3 + 2*x**2*log(2) + 56*x**2 + x*log(2)**2 + 56*x*log(2) + 784*x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 2865

2.4.692 Sympy [F(-2)]

Exception generated.

$$\int \frac{15 - 21x - 36x^2 + (12 + 12x) \log(x) + (2 + 4x + (2 + 4x) \log(x)) \log(x + x^2) + (-8 + 16x + 24x^2 + (12 + 12x) \log(x)) \log(x + x^2)}{(20x + 129x^2 + 50x^3 + 5x^4) \log^2(x)}$$

= Exception raised: PolynomialError

```
[In] integrate((((ln(x)*(1+x)-2*x**2-2*x)*ln(x**2+x)**4+((-7*x-7)*ln(x)+12*x**2+
11*x-1)*ln(x**2+x)**2+(12*x+12)*ln(x)-18*x**2-15*x+3)*ln(((ln(x)-2*x)*ln(x**
2+x)**2-4*ln(x)+6*x-1)/(ln(x**2+x)**2-3)))+(ln(x)*(1+x)-4*x**2-3*x+1)*ln(x**
2+x)**4+((-7*x-7)*ln(x)+24*x**2+16*x-8)*ln(x**2+x)**2+((4*x+2)*ln(x)+4*x+2
)*ln(x**2+x)+(12*x+12)*ln(x)-36*x**2-21*x+15)/((ln(x)*(1+x)-2*x**2-2*x)*ln(
x**2+x)**4+((-7*x-7)*ln(x)+12*x**2+11*x-1)*ln(x**2+x)**2+(12*x+12)*ln(x)-18
*x**2-15*x+3),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(36*_t0**4*x**4 + 72*_t0**4*x**3 + 3
6*_t0**4*x**2 - 288*_t0**3*x**5 - 576*_t0**3*x**4 - 288*_t0**3*x**3 + 864*_
t0**2*x**6 + 1728*_t0**2*x**5 + 864*_t0**2*x**4 - 1152*_t0*x**7 - 2304*_t0*
x**6 - 1152*
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2875

2.4.693 Sympy [F(-2)]

Exception generated.

$$\int \frac{20x + 129x^2 + 50x^3 + 5x^4 + (60 + 730x + 171x^2 - 20x^3 - 5x^4) \log(x) + (-60 - 387x - 150x^2 - 15x^3)}{(20x + 129x^2 + 50x^3 + 5x^4) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate(((((-15*x**3-150*x**2-387*x-60)*ln((5*x**3+25*x**2+4*x)/(15*x+75))+
(-5*x**4-20*x**3+171*x**2+730*x+60)*ln(x)+5*x**4+50*x**3+129*x**2+20*x)/(5*
x**4+50*x**3+129*x**2+20*x)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2893

2.4.694 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-40x^2 + 40x^3 - 10x^4) \log^2(x) + (2 - 3x + x^2) \log(x - x^2) + \log(x) (-2 + 5x - 2x^2 + (2 - 2x + x^2) \log(x))}{(120x^2 - 120x^3 + 30x^4) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((( -10*x**4+40*x**3-40*x**2)*ln(x)**2+((x**2-2*x+2)*ln(-x**2+x)-2*x**2+5*x-2)*ln(x)+(x**2-3*x+2)*ln(-x**2+x))/(30*x**4-120*x**3+120*x**2)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2907

2.4.695 Sympy [F(-2)]

Exception generated.

$$\int \frac{-50x^4 + (-450 + 300x - 50x^2 - 150x^4) \log(x) + (450 - 150x - 150x^4) \log^2(x) + (450 - 150x - 50x^4) \log^3(x)}{-x^3 + 25x^5 + (-3x^3 + 75x^5) \log(x) + (225x - 150x^2 + 22x^3 + 75x^5) \log^2(x) + (225x - 150x^2 + 24x^3) \log^3(x)}$$

= Exception raised: PolynomialError

```
[In] integrate((( -50*x**4-150*x+450)*ln(x)**3+(-150*x**4-150*x+450)*ln(x)**2+(-150*x**4-50*x**2+300*x-450)*ln(x)-50*x**4)/((25*x**5+24*x**3-150*x**2+225*x)*ln(x)**3+(75*x**5+22*x**3-150*x**2+225*x)*ln(x)**2+(75*x**5-3*x**3)*ln(x)+25*x**5-x**3),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(390625*x**18 + 1500000*x**16 - 9375000*x**15 + 16222500*x**14 - 27000000*x**13 + 126257400*x**12 - 279045000*x**11 + 391055526*x**10 - 831794400*x**9 + 1973451600*x**8 - 2835405000*x**7 + 327827250)
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2918

2.4.696 Sympy [F(-2)]

Exception generated.

$$\int \frac{2x + e^4x^2 + x^4 + e^2(-1 - 2x^3) + e^{2-x}(3x + e^4x^2 + x^4 + e^2(-2 - 2x^3)) + (-1 - 2e^4x + 4e^2(-1 - x^2 + e^4x^3 + x^5 + e^2(x - 2x^4)) + e^{2-x}(-x^2 + e^4x^3 + x^5 + e^2(x - 2x^4)) + (x - 2e^4x^2 - 2x^4 + e^2(-1 - x^2 + e^4x^3 + x^5 + e^2(x - 2x^4)))}{-x^2 + e^4x^3 + x^5 + e^2(x - 2x^4) + e^{2-x}(-x^2 + e^4x^3 + x^5 + e^2(x - 2x^4)) + (x - 2e^4x^2 - 2x^4 + e^2(-1 - x^2 + e^4x^3 + x^5 + e^2(x - 2x^4)))} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((exp(2)**2-2*exp(2)*x+x**2)*exp(2-x)+exp(2)**2-2*exp(2)*x+x**2)
 *ln(exp(2-x)+1)**2+((-2*x*exp(2)**2+4*x**2*exp(2)-2*x**3-1)*exp(2-x)-2*x*exp(2)**2+4*x**2*exp(2)-2*x**3-1)*ln(exp(2-x)+1)+(x**2*exp(2)**2+(-2*x**3-2)*exp(2)+x**4+3*x)*exp(2-x)+x**2*exp(2)**2+(-2*x**3-1)*exp(2)+x**4+2*x)/(((x*exp(2)**2-2*x**2*exp(2)+x**3)*exp(2-x)+x*exp(2)**2-2*x**2*exp(2)+x**3)*ln(exp(2-x)+1)**2+((-2*x**2*exp(2)**2+(4*x**3-1)*exp(2)-2*x**4+x)*exp(2-x)-2*x**2*exp(2)**2+(4*x**3-1)*exp(2)-2*x**4+x)*ln(exp(2-x)+1)+(x**3*exp(2)**2+(-2*x**4+x)*exp(2)+x**5-x**2)*exp(2-x)+x**3*exp(2)**2+(-2*x**4+x)*exp(2)+x**5-x**2), x)
```

[Out] Exception raised: PolynomialError >> 1/(_t0*x**4 - 2*_t0*x**3*exp(2) + _t0*x**2*exp(4) + x**4 - 2*x**3*exp(2) + x**2*exp(4)) contains an element of the set of generators.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 2965

2.4.697 Sympy [F(-2)]

Exception generated.

$$\int \frac{-5 \log(3) + (x - 12x^6 - 9x^9) \log^2(x)}{-5x \log(3) \log(x) + (-x^2 + 2x^7 + x^{10}) \log^2(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((-9*x**9-12*x**6+x)*ln(x)**2-5*ln(3))/((x**10+2*x**7-x**2)*ln(x)**2-5*x*ln(3)*ln(x)), x)
```


[Out] Exception raised: PolynomialError >> 1/(x**18 + 4*x**15 + 4*x**12 - 2*x**10 - 4*x**7 + x**2) contains an element of the set of generators.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3023

2.4.698 Sympy [F(-2)]

Exception generated.

$$\int \frac{-2x - x^2 + (-2 - x - 2x^2 - 2x^3 - x^4) \log(x) + (-2x - 4x^2 - 2x^3) \log^2(x) + (-2x - x^2) \log^3(x) + (2x^3 + x^4) \log(x) + (4x^2 + 2x^3) \log^2(x) + (2x + x^2) \log^3(x)}{(2x^3 + x^4) \log(x) + (4x^2 + 2x^3) \log^2(x) + (2x + x^2) \log^3(x)}$$

= Exception raised: TypeError

[In] integrate(((x**2+3*x+2)*ln(x)*ln((2*x**2+8*x+8)*ln(x))+(-x**2-2*x)*ln(x)**3+(-2*x**3-4*x**2-2*x)*ln(x)**2+(-x**4-2*x**3-2*x**2-x-2)*ln(x)-x**2-2*x)/((x**2+2*x)*ln(x)**3+(2*x**3+4*x**2)*ln(x)**2+(x**4+2*x**3)*ln(x)),x)

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3063

2.4.699 Sympy [F(-2)]

Exception generated.

$$\int \frac{108x^3 + 30x^4 + 2x^5 + (-108x^3 - 21x^4 - x^5) \log(x) + (27x^3 + 3x^4) \log^2(x) + ((432x^3 + 105x^4 + 7x^5) \log(x) + (-36 + 12x + x^2) \log(x) + (-36 - 6x) \log^2(x))}{(36 + 12x + x^2) \log(x) + (-36 - 6x) \log^2(x)}$$

= Exception raised: TypeError

[In] integrate((((15*x**4+108*x**3)*ln(x)**3+(-4*x**5-87*x**4-432*x**3)*ln(x)**2+(7*x**5+105*x**4+432*x**3)*ln(x))*ln(ln(x))+(3*x**4+27*x**3)*ln(x)**2+(-x**5-21*x**4-108*x**3)*ln(x)+2*x**5+30*x**4+108*x**3)/(9*ln(x)**3+(-6*x-36)*ln(x)**2+(x**2+12*x+36)*ln(x)),x)

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3087

2.4.700 Sympy [F(-2)]

Exception generated.

$$\int \frac{16x^2 - 112x^3 - 128x^2 \log(x) + (-64x^2 + 32x^3 + (-64x + 32x^2) \log(x)) \log(x + \log(x)) + (-8x + 12x^2) \log^2(x + \log(x))}{(x^2 - x) \ln(x + \ln(x)) + 4x^3 - 8x^2 \ln(x + \ln(x)) - 16x^2 \ln(x) - 16x^3 \ln((x^2 - x) \ln(x + \ln(x)) - 4x^2) / (\ln(x + \ln(x)) + 4x)) + ((8x - 6) \ln(x) + 8x^2 - 6x) \ln(x + \ln(x)) + ((24x^2 - 48x) \ln(x) + 24x^3 - 48x^2) \ln(x + \ln(x)) - 96x^2 \ln(x) - 88x^3 + 8x^2) \ln((x^2 - x) \ln(x + \ln(x)) - 4x^2) / (\ln(x + \ln(x)) + 4x)) + ((12x - 8) \ln(x) + 12x^2 - 8x) \ln(x + \ln(x)) + ((32x^2 - 64x) \ln(x) + 32x^3 - 64x^2) \ln(x + \ln(x)) - 128x^2 \ln(x) - 112x^3 + 16x^2) / (((-1 + x) \ln(x) + x^2 - x) \ln(x + \ln(x)) + (4x^2 - 8x) \ln(x) + 4x^3 - 8x^2) \ln(x + \ln(x)) - 16x^2 \ln(x) - 16x^3)}$$

= Exception raised: TypeError

[In] integrate(((((-1+x)*ln(x)+x**2-x)*ln(x+ln(x))**2+((4*x**2-8*x)*ln(x)+4*x**3-8*x**2)*ln(x+ln(x))-16*x**2*ln(x)-16*x**3)*ln(((x**2-x)*ln(x+ln(x))-4*x**2)/(ln(x+ln(x))+4*x))**2+(((8*x-6)*ln(x)+8*x**2-6*x)*ln(x+ln(x))**2+((24*x**2-48*x)*ln(x)+24*x**3-48*x**2)*ln(x+ln(x))-96*x**2*ln(x)-88*x**3+8*x**2)*ln(((x**2-x)*ln(x+ln(x))-4*x**2)/(ln(x+ln(x))+4*x)))+((12*x-8)*ln(x)+12*x**2-8*x)*ln(x+ln(x))**2+((32*x**2-64*x)*ln(x)+32*x**3-64*x**2)*ln(x+ln(x))-128*x**2*ln(x)-112*x**3+16*x**2)/(((((-1+x)*ln(x)+x**2-x)*ln(x+ln(x))**2+((4*x**2-8*x)*ln(x)+4*x**3-8*x**2)*ln(x+ln(x))-16*x**2*ln(x)-16*x**3),x)

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3089

2.4.701 Sympy [F(-2)]

Exception generated.

$$\int \frac{(4 - 4e^4 + e^8) \log^2(x) + (-4 + 2e^4) \log^2(x) \log(4x^2) + \log^2(x) \log^2(4x^2) + e^{\frac{4}{-2+e^4+\log(4x^2)}} (4 - 4e^4 + e^8)}{(4 - 4e^4 + e^8) \log^2(x) + (-4 + 2e^4) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((((1-ln(x))*ln(4*x**2)**2+((-2*exp(4)+4)*ln(x)+2*exp(4)-4)*ln(4*x
**2)+(-exp(4)**2+4*exp(4)+4)*ln(x)+exp(4)**2-4*exp(4)+4)*exp(4/(ln(4*x**2)+
exp(4)-2))+ln(x)**2*ln(4*x**2)**2+(2*exp(4)-4)*ln(x)**2*ln(4*x**2)+(exp(4)*
*2-4*exp(4)+4)*ln(x)**2)/(ln(x)**2*ln(4*x**2)**2+(2*exp(4)-4)*ln(x)**2*ln(4
*x**2)+(exp(4)**2-4*exp(4)+4)*ln(x)**2), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3383

2.4.702 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-36x^2 + 36x \log(x)) \log(x - \log(x)) + \frac{e^x(-15+15x+(-15x-15x^2+(15+15x)\log(x))\log(x-\log(x)))}{\log(x-\log(x))}}{e^x(15x^2 - 60x^4 + (-15x + 60x^3)\log(x)) + \frac{e^{2x}(-25x^3+25x^2\log(x))}{\log(x-\log(x))} + (18x^3 - 36x^5 + (-18x^2 + 36x^4)\log(x))} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((15*x+15)*ln(x)-15*x**2-15*x)*ln(x-ln(x))+15*x-15)*exp(-ln(ln(
x-ln(x)))+x)+(36*x*ln(x)-36*x**2)*ln(x-ln(x)))/((25*x**2*ln(x)-25*x**3)*ln(
x-ln(x))*exp(-ln(ln(x-ln(x)))+x)**2+((60*x**3-15*x)*ln(x)-60*x**4+15*x**2)*
ln(x-ln(x))*exp(-ln(ln(x-ln(x)))+x)+((36*x**4-18*x**2)*ln(x)-36*x**5+18*x**
3)*ln(x-ln(x))), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(-5*_t0*x**2 + 5*x**3) contains an e
lement of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3431

2.4.703 Sympy [F(-2)]

Exception generated.

$$\int \frac{3x + x^2 + (6x + 2x^2) \log\left(\frac{3+x}{4}\right) + (3x + x^2) \log^2\left(\frac{3+x}{4}\right) + \log^2(x) (3 + x - 9x^2 + \dots)}{\log(x) (-3x^2 - x^3 + (-6x^2 - 2x^3) \log\left(\frac{3+x}{4}\right) + (-3x^2 - x^3) \log^2\left(\frac{3+x}{4}\right)) + \log^2(x) (-3x + 2x^2 - 8x^3 - \dots)}$$

= Exception raised: PolynomialError

```
[In] integrate((((3+x)*ln(3/4+1/4*x)**2+(-3*x**3-9*x**2+2*x+6)*ln(3/4+1/4*x)-9*x**2+x+3)*ln(x)**2+(x**2+3*x)*ln(3/4+1/4*x)**2+(2*x**2+6*x)*ln(3/4+1/4*x)+x**2+3*x)/(((x**3+2*x**2-3*x)*ln(3/4+1/4*x)**2+(-3*x**4-7*x**3+4*x**2-6*x)*ln(3/4+1/4*x)-3*x**4-8*x**3+2*x**2-3*x)*ln(x)**2+((-x**3-3*x**2)*ln(3/4+1/4*x)**2+(-2*x**3-6*x**2)*ln(3/4+1/4*x)-x**3-3*x**2)*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(_t0**2*x**3 + _t0**2*x**2 - 5*_t0**2*x + 3*_t0**2 - 2*_t0*x**3 - 4*_t0*x**2 + 6*_t0*x + x**3 + 3*x**2) contain s an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3480

2.4.704 Sympy [F(-2)]

Exception generated.

$$\int \frac{9 + x + (-27 - 4x) \log(x) + (-3 + 5x) \log^2(x) + (6 - 2x) \log^3(x)}{(9x + x^2) \log(x) + (-3x - 2x^2) \log^2(x) + (-6x + x^2) \log^3(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((6-2*x)*ln(x)**3+(5*x-3)*ln(x)**2+(-4*x-27)*ln(x)+x+9)/((x**2-6*x)*ln(x)**3+(-2*x**2-3*x)*ln(x)**2+(x**2+9*x)*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**6 - 24*x**5 + 216*x**4 - 864*x**3 + 1296*x**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3491

2.4.705 Sympy [F(-2)]

Exception generated.

$$\int \frac{4x^5 + (-4x^3 - 2x^5) \log(4 + 4x^2 + x^4) + (-6 - 3x^2) \log^2(4 + 4x^2 + x^4)}{(-2x^4 - x^6) \log(4 + 4x^2 + x^4) + (6x - 2x^2 + 3x^3 - x^4 + (2x^2 + x^4) \log(5)) \log^2(4 + 4x^2 + x^4)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((( -3*x**2-6)*ln(x**4+4*x**2+4)**2+(-2*x**5-4*x**3)*ln(x**4+4*x**2+4)+4*x**5)/((x**4+2*x**2)*ln(5)-x**4+3*x**3-2*x**2+6*x)*ln(x**4+4*x**2+4)**2+(-x**6-2*x**4)*ln(x**4+4*x**2+4)), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(-2*x**4*log(5) + x**4 + x**4*log(5)**2 - 6*x**3 + 6*x**3*log(5) - 4*x**2*log(5) + 2*x**2*log(5)**2 + 11*x**2 - 12*x + 12*x*log(5) + 18) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 3538**2.4.706 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(4 + 4x) \log(1 + x) + (-4 - 8x) \log^2(1 + x) + \log(3x)(-4x + (4 + 8x) \log(1 + x))}{(x + x^2) \log(3x) \log(1 + x) + (-x - x^2) \log^2(1 + x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((8*x+4)*ln(1+x)-4*x)*ln(3*x)+(-8*x-4)*ln(1+x)**2+(4+4*x)*ln(1+x))/((x**2+x)*ln(1+x)*ln(3*x)+(-x**2-x)*ln(1+x)**2), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**2 + x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 3565

2.4.707 Sympy [F(-2)]

Exception generated.

$$\int \frac{(12x + 18x^2 + e^x(12 + 12x + 6x^2) + (6x + 6e^xx) \log(x)) \log(25e^xx^2 + 25x^3 + (50e^xx + 50x^2) \log(x) + 2e^x)}{2e^x} dx$$

= Exception raised: TypeError

```
[In] integrate((((3*exp(x)+3*x)*ln(x)+3*exp(x)*x+3*x**2)*ln((25*exp(x)+25*x)*ln(x)**2+(50*exp(x)*x+50*x**2)*ln(x)+25*exp(x)*x**2+25*x**3)**2+((6*exp(x)*x+6*x)*ln(x)+(6*x**2+12*x+12)*exp(x)+18*x**2+12*x)*ln((25*exp(x)+25*x)*ln(x)**2+(50*exp(x)*x+50*x**2)*ln(x)+25*exp(x)*x**2+25*x**3)))/((2*exp(x)+2*x)*ln(x)+2*exp(x)*x+2*x**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3596

2.4.708 Sympy [F(-2)]

Exception generated.

$$\int \frac{-180x^2 + 60x^3 + e^{\frac{1}{4}(3+4x)}(-36x^2 + 24x^3 - 3x^4) + e^x(36x^2 - 24x^3 + 3x^4)}{25 - 10e^x + e^{2x} + e^{\frac{1}{2}(3+4x)} + e^{\frac{1}{4}(3+4x)}(10 - 2e^x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((-3*x**4+24*x**3-36*x**2)*exp(3/4+x)+(3*x**4-24*x**3+36*x**2)*exp(x)+60*x**3-180*x**2)/(exp(3/4+x)**2+(-2*exp(x)+10)*exp(3/4+x)+exp(x)**2-10*exp(x)+25),x)
```

```
[Out] Exception raised: PolynomialError >> (-3*_t0*x**4*exp(3/4) + 3*_t0*x**4 - 24*_t0*x**3 + 24*_t0*x**3*exp(3/4) - 36*_t0*x**2*exp(3/4) + 36*_t0*x**2 + 60*x**3 - 180*x**2)/(-2*_t0**2*exp(3/4) + _t0**2 + _t0**2*exp(3/2) - 10*_t0 + 10*_t0*exp(
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3601

2.4.709 Sympy [F(-2)]

Exception generated.

$$\int \frac{96 + e^4(-8 - 2x) + 24x + (96 - 8e^4) \log(x) - 10 \log^2(x)}{(-96x - 24x^2 + e^4(8x + 2x^2)) \log(x) + (10x + 3x^2) \log^2(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((-10*ln(x)**2+(-8*exp(2)**2+96)*ln(x)+(-2*x-8)*exp(2)**2+24*x+96)
/((3*x**2+10*x)*ln(x)**2+((2*x**2+8*x)*exp(2)**2-24*x**2-96*x)*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(9*x**3 + 60*x**2 + 100*x) contains
an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3760

2.4.710 Sympy [F(-2)]

Exception generated.

$$\int \frac{200x^2 + 80x^3 + (-50x^3 - 20x^4) \log(x) + (-400x - 160x^2 + (100x^2 + 40x^3) \log(x)) \log(x^2) + (200 + 80x^3) \log^2(x)}{(-96x - 24x^2 + e^4(8x + 2x^2)) \log(x) + (10x + 3x^2) \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((((5*x**2+25*x)*ln(x)-20*x-100)*ln(x**2))+(-10*x**2-50*x)*ln(x)+
40*x+200)*ln((-x*ln(x)+4)/x)+(10*x*ln(x)-40)*ln(x**2)**2+(-20*x**2*ln(x)+5*
x**2+125*x+100)*ln(x**2)+10*x**3*ln(x)-5*x**3-85*x**2-100*x)*exp(x*ln((-x*ln
(x)+4)/x)/(2*ln(x**2)-2*x))+((-20*x**2-50*x)*ln(x)+80*x+200)*ln(x**2)**2+(
(40*x**3+100*x**2)*ln(x)-160*x**2-400*x)*ln(x**2)+(-20*x**4-50*x**3)*ln(x)+
80*x**3+200*x**2)/((2*x*ln(x)-8)*ln(x**2)**2+(-4*x**2*ln(x)+16*x)*ln(x**2)+
2*x**3*ln(x)-8*x**2)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3909

2.4.711 Sympy [F(-2)]

Exception generated.

$$\int \frac{(1 + e^5 - 2x) \log^2(1 + e^5 - 2x) + e^{\frac{x}{\log(1+e^5-2x)}} \left(-2x^2 \log\left(\frac{3x}{2}\right) + (-x - e^5x + 2x^2) \log(1 + e^5 - 2x) \log\left(\frac{3x}{2}\right) \right)}{(x + e^5x - 2x^2) \log^2(1 + e^5 - 2x) \log\left(\frac{3x}{2}\right)} dx$$

= Exception raised: TypeError

```
[In] integrate((((-x*exp(5)+2*x**2-x)*ln(3/2*x)*ln(exp(5)+1-2*x)-2*x**2*ln(3/2*x))
)*exp(x/ln(exp(5)+1-2*x))+(exp(5)+1-2*x)*ln(exp(5)+1-2*x)**2)/(x*exp(5)-2*x**2+x)/ln(3/2*x)/ln(exp(5)+1-2*x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3922

2.4.712 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-2-e} \frac{-x+(4-\log(3))\log(x^3)}{\log(x^3)} - x \left(e^{\frac{-x+(4-\log(3))\log(x^3)}{\log(x^3)}} (-3 + \log(x^3)) - \log^2(x^3) \right)}{\log^2(x^3)} dx$$

= Exception raised: TypeError

```
[In] integrate(((ln(x**3)-3)*exp((((-ln(3)+4)*ln(x**3)-x)/ln(x**3))-ln(x**3)**2)*exp(-exp((((-ln(3)+4)*ln(x**3)-x)/ln(x**3))-x-2)/ln(x**3)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 3939

2.4.713 Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{4x^2+x^2 \log(169)}{20 \log(50-x)}} \frac{(-4x^2 - x^2 \log(169) + (-400x + 8x^2 + (-100x + 2x^2) \log(169)) \log(50-x))}{(-1000 + 20x) \log^2(50-x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((2*(2*x**2-100*x)*ln(13)+8*x**2-400*x)*ln(-x+50)-2*x**2*ln(13)-4*x**2)*exp(1/20*(2*x**2*ln(13)+4*x**2)/ln(-x+50))/(20*x-1000)/ln(-x+50)**2, x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4051

2.4.714 Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{\frac{1}{15} \left(12+5e^{\frac{2-16x+4x^2+4x \log(25+10x+x^2)}{-4x+x^2+x \log(25+10x+x^2)}} x \right) + \frac{2-16x+4x^2+4x \log(25+10x+x^2)}{-4x+x^2+x \log(25+10x+x^2)}}{240x - 72x^2 - 9x^3 + 3x^4 + (-120x + 6x^2 + 6x^3) \log(25 + 10x + x^2)}} dx$$

= Exception raised: TypeError

```
[In] integrate(((x**2+5*x)*ln(x**2+10*x+25)**2+(2*x**3+2*x**2-42*x-10)*ln(x**2+10*x+25)+x**4-3*x**3-28*x**2+64*x+40)*exp((4*x*ln(x**2+10*x+25)+4*x**2-16*x+2)/(x*ln(x**2+10*x+25)+x**2-4*x))*exp(1/3*x*exp((4*x*ln(x**2+10*x+25)+4*x**2-16*x+2)/(x*ln(x**2+10*x+25)+x**2-4*x))+4/5)/((3*x**2+15*x)*ln(x**2+10*x+25)**2+(6*x**3+6*x**2-120*x)*ln(x**2+10*x+25)+3*x**4-9*x**3-72*x**2+240*x), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4056

2.4.715 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-2e^x x + 2x^2) \log^2(x) + ((e^x(-10 - 2x) + 10x + 2x^2) \log^2(x) + (10x + 12x^2 + 2x^3 + e^{2x}(10x + 2x^2) -$$

= Exception raised: TypeError

```
[In] integrate((( -2*x-10)*ln(5+x)*ln(x*ln(5+x))**2+((( -2*x**2-10*x)*exp(x)+2*x*
*2+10*x)*ln(x)**2+((2*x+10)*exp(x)-2*x**2-8*x+10)*ln(x))*ln(5+x)+2*x*ln(x)
*ln(x*ln(5+x))+((2*x**2+10*x)*exp(x)**2+(-2*x**3-12*x**2-10*x)*exp(x)+2*x*
*3+12*x**2+10*x)*ln(x)**3+((-2*x-10)*exp(x)+2*x**2+10*x)*ln(x)**2)*ln(5+x)+
(-2*exp(x)*x+2*x**2)*ln(x)**2)/(x**2+5*x)/ln(x)**3/ln(5+x), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 4088**2.4.716 Sympy [F(-2)]**

Exception generated.

$$\int \frac{30x^2 - 10x^4 + (30 - 10x^2 + 9x^5 - 6x^7 + x^9 - 60x^6 \log(3)) \log(x) + (18x^3 - 12x^5 + 2x^7 - 120x^4 \log(3))}{(9x^5 - 6x^7 + x^9) \log(x) + (18x^3 - 12$$

= Exception raised: TypeError

```
[In] integrate(((20*x**2*ln(x)**2+(40*x**4-50*x**2-30)*ln(x))*ln(ln(x))+(-60*x**
2*ln(3)+x**5-6*x**3+9*x)*ln(x)**3+(-120*x**4*ln(3)+2*x**7-12*x**5+18*x**3)*
ln(x)**2+(-60*x**6*ln(3)+x**9-6*x**7+9*x**5-10*x**2+30)*ln(x)-10*x**4+30*x**
*2)/((x**5-6*x**3+9*x)*ln(x)**3+(2*x**7-12*x**5+18*x**3)*ln(x)**2+(x**9-6*x
**7+9*x**5)*ln(x)), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 4109

2.4.717 Sympy [F(-2)]

Exception generated.

$$\int \frac{-11x + e^{\sqrt[4]{e}}(11x + 12x^2) + (2x + e^{\sqrt[4]{e}}(-2x - 2x^2)) \log(x + e^{\sqrt[4]{e}}(-x - 2x^2))}{-25 - 5x^2 + e^{\sqrt[4]{e}}(25 + 25x + 5x^2 + 5x^3) + (10 + x^2 + e^{\sqrt[4]{e}}(-10 - 10x - x^2 - x^3)) \log(x + e^{\sqrt[4]{e}}(-x - 2x^2))} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((((-2*x**2-2*x)*exp(exp(1/4))+2*x)*ln((-x**2-x)*exp(exp(1/4))+x)+
(12*x**2+11*x)*exp(exp(1/4))-11*x)/(((1+x)*exp(exp(1/4))-1)*ln((-x**2-x)*ex
p(exp(1/4))+x)**2+((-x**3-x**2-10*x-10)*exp(exp(1/4))+x**2+10)*ln((-x**2-x)
*exp(exp(1/4))+x)+(5*x**3+5*x**2+25*x+25)*exp(exp(1/4))-5*x**2-25), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**2*exp(exp(1/4)) - x + x*exp(exp(
1/4))) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4133

2.4.718 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-15+3x}{x+\log(x)}}(15x^3 + 12x^4 + 3x^5 + e^x(-15 - 12x - x^3) + (-15x^2 - 12x^3 - 2x^4) \log(15) + (9x^4 + e^x(-3x - 2x^2)) \log(x) + 2x \log^2(x))}{2x^3 + 4x^2 \log(x) + 2x \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((-exp(x)*x-2*x**2*ln(15)+3*x**3)*ln(x)**2+((-2*x**2-3*x)*exp(x)-
7*x**3*ln(15)+9*x**4)*ln(x)+(-x**3-12*x-15)*exp(x)+(-2*x**4-12*x**3-15*x**2)
)*ln(15)+3*x**5+12*x**4+15*x**3)*exp((3*x-15)/(x+ln(x)))/(2*x*ln(x)**2+4*x*
*2*ln(x)+2*x**3), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4134

2.4.719 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{180x^3}{(-1+x)\log(x)}}(-180x^2 + 180x^3 + (540x^2 - 360x^3)\log(x))}{(1 - 2x + x^2)\log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((( -360*x**3+540*x**2)*ln(x)+180*x**3-180*x**2)*exp(-180*x**3/(-1+x)/ln(x))/(x**2-2*x+1)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4177

2.4.720 Sympy [F(-2)]

Exception generated.

$$\int \frac{200x + 300x^2 + 80x^3 + 120x^4 + 8x^5 + 12x^6 + e^{\frac{10}{5+x^2}}(-50x - 20x^3 - 2x^5) + e^{\frac{5}{5+x^2}}(150x - 75x^2 + 10x^3)}{800 + 420x^2 + 100x^3 + 72x^4 + 40x^5 + 4x^6 + 4x^7 + e^{\frac{10}{5+x^2}}(50 - 5x^2 - 8x^4 - x^6) + e^{\frac{5}{5+x^2}}}$$

= Exception raised: PolynomialError

```
[In] integrate((((x**6+2*x**5+10*x**4+30*x**3+25*x**2+50*x)*exp(5/(x**2+5))-4*x**6-8*x**5-40*x**4-80*x**3-100*x**2-200*x)*exp(x)+(-2*x**5-20*x**3-50*x)*exp(5/(x**2+5))**2+(-3*x**6+6*x**5-40*x**4+10*x**3-75*x**2+150*x)*exp(5/(x**2+5))+12*x**6+8*x**5+120*x**4+80*x**3+300*x**2+200*x)/(((x**6+10*x**4+25*x**2)*exp(5/(x**2+5))-4*x**6-40*x**4-100*x**2)*exp(x)+(-x**6-8*x**4-5*x**2+50)*exp(5/(x**2+5))**2+(-x**7+3*x**6-10*x**5+14*x**4-25*x**3-85*x**2-400)*exp(5/(x**2+5))+4*x**7+4*x**6+40*x**5+72*x**4+100*x**3+420*x**2+800),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**8 + 6*x**6 - 11*x**4 - 60*x**2 + 100) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4191

2.4.721 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-128x^3 + 256x^4 + (128x^2 - 256x^3) \log(2) + (-128x^2 + 256x^3 + (128x - 256x^2) \log(2)) \log(x)) \log(-12x^3 - x^4 + x^5 + (-24x^2 - 12x^3 - x^4 + x^5 + (-24x^2$$

= Exception raised: TypeError

```
[In] integrate((((64*x**3-64*x**2-768*x)*ln(x)+(64*x**3-832*x-768)*ln(2)-64*x**3
+64*x**2+768*x)*ln(x**2-x-12)**2+((( -256*x**2+128*x)*ln(2)+256*x**3-128*x**
2)*ln(x)+(-256*x**3+128*x**2)*ln(2)+256*x**4-128*x**3)*ln(x**2-x-12))/((x**
3-x**2-12*x)*ln(x)**2+(2*x**4-2*x**3-24*x**2)*ln(x)+x**5-x**4-12*x**3),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4204

2.4.722 Sympy [F(-2)]

Exception generated.

$$\int \frac{10x - 20x \log(x) + (45 + 110x + 27x^2) \log^2(x)}{-10x^2 \log(x) + (45x + 55x^2 + 9x^3) \log^2(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((27*x**2+110*x+45)*ln(x)**2-20*x*ln(x)+10*x)/((9*x**3+55*x**2+45
*x)*ln(x)**2-10*x**2*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(81*x**5 + 990*x**4 + 3835*x**3 + 49
50*x**2 + 2025*x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4252

2.4.723 Sympy [F(-2)]

Exception generated.

$$\int \frac{-28 + 16x + 60000x^4 - 10000x^5 + (24 - 12x - 30000x^4 + 5000x^5) \log(x) + (-4 + 2x + 3750x^4 - 6250x^5) \log^2(x)}{-16x + 10000x^5 + (12x - 5000x^5) \log(x) + (-2x + 625x^5) \log^2(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((625*x**5+3750*x**4+2*x-4)*ln(x)**2+(5000*x**5-30000*x**4-12*x+24)*ln(x)-10000*x**5+60000*x**4+16*x-28)/((625*x**5-2*x)*ln(x)**2+(-5000*x**5+12*x)*ln(x)+10000*x**5-16*x),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(390625*x**9 - 2500*x**5 + 4*x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4295

2.4.724 Sympy [F(-2)]

Exception generated.

$$\int \frac{-24x + 4e^{2x}x + 12x^2 + e^x(-12 - 8x + 8x^2)}{3x^2 + e^{2x}(1 + x) + e^x(3 + 3x + x^2)} dx = \text{Exception raised: PolynomialError}$$

```
[In] integrate((4*x*exp(x)**2+(8*x**2-8*x-12)*exp(x)+12*x**2-24*x)/((1+x)*exp(x)**2+(x**2+3*x+3)*exp(x)+3*x**2),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**2 + 2*x + 1) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4316

2.4.725 Sympy [F(-2)]

Exception generated.

$$\int \frac{-5x - x^2 - 6x^3 + 10x^4 - 4x^5 + (-10 + 2x) \log(2x) + (-2x - 12x^2 + 20x^3 - 8x^4) \log^2(2x) + (-6x + x^2 + 3x^3 + x^5 + (x + \dots))}{x^2 + 3x^3 + x^5 + (x + \dots)}$$

= Exception raised: PolynomialError

```
[In] integrate((((-x**3-3*x)*ln(2*x)**4+(-2*x**4-6*x**2-x)*ln(2*x)**2-x**5-3*x**3-x**2)*ln((x**2+3)*ln(2*x)**2+x**3+3*x+1)/(ln(2*x)**2+x))+(-4*x**3+10*x**2-6*x)*ln(2*x)**4+(-8*x**4+20*x**3-12*x**2-2*x)*ln(2*x)**2+(2*x-10)*ln(2*x)-4*x**5+10*x**4-6*x**3-x**2-5*x)/((x**3+3*x)*ln(2*x)**4+(2*x**4+6*x**2+x)*ln(2*x)**2+x**5+3*x**3+x**2),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**10 + 12*x**8 + 54*x**6 + 108*x**4 + 81*x**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4389

2.4.726 Sympy [F(-2)]

Exception generated.

$$\int \frac{15 + 27x + 12x^2 - 3x^3 - 3x^4 + (27x + 24x^2 - 9x^3 - 12x^4) \log(x) + (25x + 40x^2 + 16x^3 - 10x^4) \log^2(x) + (-15x - 27x^2 - 12x^3 + 3x^4 + 3x^5) \log(x) + (475x + 1735x^2 + 2364x^3 + 1234x^4 - 222x^5 - 512x^6 - 14x^7)}{(-15x - 27x^2 - 12x^3 + 3x^4 + 3x^5) \log(x) + (475x + 1735x^2 + 2364x^3 + 1234x^4 - 222x^5 - 512x^6 - 14x^7)}$$

= Exception raised: PolynomialError

```
[In] integrate(((x**7-8*x**5-10*x**4+16*x**3+40*x**2+25*x)*ln(x)**2+(-12*x**4-9*x**3+24*x**2+27*x)*ln(x)-3*x**4-3*x**3+12*x**2+27*x+15)/((20*x**9+39*x**8-141*x**7-512*x**6-222*x**5+1234*x**4+2364*x**3+1735*x**2+475*x)*ln(x)**2+(3*x**5+3*x**4-12*x**3-27*x**2-15*x)*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(400*x**9 + 760*x**8 - 2839*x**7 - 10080*x**6 - 4088*x**5 + 24550*x**4 + 46176*x**3 + 33440*x**2 + 9025*x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4411

2.4.727 Sympy [F(-2)]

Exception generated.

$$\int \frac{12x + 16x^2 + (-14x - 8x^2) \log(x) + (3x + 10x^2 + 8x^3) \log^3(x) + (12 + 16x) \log(3 + 4x)}{(3x + 4x^2) \log^3(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((16*x+12)*ln(3+4*x)+(8*x**3+10*x**2+3*x)*ln(x)**3+(-8*x**2-14*x)
 *ln(x)+16*x**2+12*x)/(4*x**2+3*x)/ln(x)**3,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4469

2.4.728 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-x^3 - x^4) \log(x) + (5x^2 + 6x^3 + x^4 + (5x^2 + 6x^3 + x^4) \log(x)) \log(5 + x) + (-500 - 600x - 100x^2) \log(5 + x)}{(5x^2 + x^3) \log(x) \log(5 + x)}$$

= Exception raised: PolynomialError

```
[In] integrate((((50*x**3+475*x**2+1225*x+500)*ln(5+x)**2+(2*x**4+11*x**3+5*x**2)
)*ln(x)*ln(5+x))*ln(1/25*((25*x+100)*ln(5+x)+x**2*ln(x))/x/ln(5+x))+(-100*x
**2-600*x-500)*ln(5+x)**2+((x**4+6*x**3+5*x**2)*ln(x)+x**4+6*x**3+5*x**2)*l
n(5+x)+(-x**4-x**3)*ln(x))/((25*x**2+225*x+500)*ln(5+x)**2+(x**3+5*x**2)*ln
(x)*ln(5+x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(75*x**3 + 975*x**2 + 4200*x + 6000)
contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4480

2.4.729 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{e^{\frac{1}{x^2 \log^2(2+\log(4))}}} \left(-2e^{x + \frac{1}{x^2 \log^2(2+\log(4))}} + e^x (x^2 + x^3) \log^2(2 + \log(4)) \right)}{8x^2 \log^2(2 + \log(4))} dx$$

= Exception raised: GeneratorsError

```
[In] integrate(1/8*(-2*exp(x)*exp(1/x**2/ln(2+2*ln(2))**2)+(x**3+x**2)*exp(x)*ln(2+2*ln(2))**2)*exp(exp(1/x**2/ln(2+2*ln(2))**2))/x**2/ln(2+2*ln(2))**2,x)
```

```
[Out] Exception raised: GeneratorsError >> polynomial ring and it's ground domain share generators
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4529

2.4.730 Sympy [F(-2)]

Exception generated.

$$\int \frac{2 + 2x + 2 \log(16) - 2x \log(x) + (26x + 2x^2) \log^2(x)}{(-2x - 2x^2 - 2x \log(16)) \log(x) + (x + 26x^2 + x^3 + x \log(16)) \log^2(x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((2*x**2+26*x)*ln(x)**2-2*x*ln(x)+8*ln(2)+2*x+2)/((4*x*ln(2)+x**3+26*x**2+x)*ln(x)**2+(-8*x*ln(2)-2*x**2-2*x)*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**5 + 52*x**4 + 8*x**3*log(2) + 67*8*x**3 + 52*x**2 + 208*x**2*log(2) + x + 8*x*log(2) + 16*x*log(2)**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4541

2.4.731 Sympy [F(-2)]

Exception generated.

$$\int \frac{81x^2 + 18x^4 + x^6 + (162x + 18x^3) \log(2) + 81 \log^2(2) + (-81x^2 - 18x^3 - 18x^4 - 2x^5 - x^6 + (-162x - 18x^3 - 18x^4 - 2x^5 - x^6) \log(2) + 81 \log^2(2))}{(x^2 + 1)^2} dx$$

= Exception raised: TypeError

```
[In] integrate(((x**4*ln(x)**2+(-18*x**2*ln(2)-2*x**5-18*x**3-6*x**2)*ln(x)+81*ln(2)**2+(18*x**3+162*x)*ln(2)+x**6+18*x**4+9*x**3+78*x**2+27*x)*exp(-3/(x**2*ln(x)-9*ln(2)-x**3-9*x))-x**4*ln(x)**3+(18*x**2*ln(2)+2*x**5+x**4+18*x**3)*ln(x)**2+(-81*ln(2)**2+(-18*x**3-18*x**2-162*x)*ln(2)-x**6-2*x**5-18*x**4-18*x**3-81*x**2)*ln(x)+81*ln(2)**2+(18*x**3+162*x)*ln(2)+x**6+18*x**4+81*x**2)/(x**6*ln(x)**2+(-18*x**4*ln(2)-2*x**7-18*x**5)*ln(x)+81*x**2*ln(2)**2+(18*x**5+162*x**3)*ln(2)+x**8+18*x**6+81*x**4),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4629

2.4.732 Sympy [F(-2)]

Exception generated.

$$\int \frac{5 - 25x - 108x^2 - 180x^3 + 36x^2 \log(x) + (15 - 11x - 60x^2 + (-5 + 12x) \log(x)) \log(3 + 5x) + (60x - 44x^2 - 240x^3 + (-20x + 48x^2) \log(x)) \log(3 + 5x)}{360x^2 + 168x^3 - 720x^4 + (-120x^2 + 144x^3) \log(x) + (60x - 44x^2 - 240x^3 + (-20x + 48x^2) \log(x)) \log(3 + 5x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((ln(x)-5*x-3)*ln(-ln(x)+5*x+3)**2+((12*x-5)*ln(x)-60*x**2-11*x+15)*ln(-ln(x)+5*x+3)+36*x**2*ln(x)-180*x**3-108*x**2-25*x+5)/((4*x*ln(x)-20*x**2-12*x)*ln(-ln(x)+5*x+3)**2+((48*x**2-20*x)*ln(x)-240*x**3-44*x**2+60*x)*ln(-ln(x)+5*x+3)+(144*x**3-120*x**2)*ln(x)-720*x**4+168*x**3+360*x**2),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(-_t0*x + 5*x**2 + 3*x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4738

2.4.733 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{2x}(15x^2 + 20x^3 - 4x^4) + e^{2x}(24x + 19x^2 - 2x^3) \log(4 - x) + e^{2x}(2x + 2x^2) \log^2(4 - x)}{-2x^2 + e^{2x}(12x^3 - 2x^4) + (-4x + e^{2x}(12x^2 - x^3)) \log(4 - x) + (-2 + e^{2x}x^2) \log^2(4 - x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((2*x**2+2*x)*exp(x)**2*ln(-x+4)**2+(-2*x**3+19*x**2+24*x)*exp(x)
**2*ln(-x+4)+(-4*x**4+20*x**3+15*x**2)*exp(x)**2)/((exp(x)**2*x**2-2)*ln(-x
+4)**2+((-x**3+12*x**2)*exp(x)**2-4*x)*ln(-x+4)+(-2*x**4+12*x**3)*exp(x)**2
-2*x**2),x)
```

[Out] Exception raised: PolynomialError >> 1/(x - 4) contains an element of the set of generators.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4777

2.4.734 Sympy [F(-2)]

Exception generated.

$$\int \frac{-e^{5x}x^5 + e^{10x}(-3x^4 + x^5 - x^6) + (e^{10x}(15x^4 - 4x^5 + 3x^6) + e^{5x}(4x^5 + 5x^6)) \log(x)}{(e^{5x}x^6 + e^{10x}(3x^5 - x^6 + x^7)) \log(x) + (2x^2 + e^{5x}(12x - 4x^2 + 4x^3) + e^{10x}(18 - 12x + 14x^2 - 4x^3 + \dots)) \log^2(x)}$$

= Exception raised: PolynomialError

```
[In] integrate((((3*x**6-4*x**5+15*x**4)*exp(5*x)**2+(5*x**6+4*x**5)*exp(5*x))*ln(x)
+(-x**6+x**5-3*x**4)*exp(5*x)**2-x**5*exp(5*x))/(((2*x**4-4*x**3+14*x**2-12*x+18)*exp(5*x)**2+
(4*x**3-4*x**2+12*x)*exp(5*x)+2*x**2)*ln(x)**2+((x**7-x**6+3*x**5)*exp(5*x)**2+x**6*exp(5*x))*ln(x)),x)
```

[Out] Exception raised: PolynomialError >> 1/(4*_t0**2*x**8 - 16*_t0**2*x**7 + 72*_t0**2*x**6 - 160*_t0**2*x**5 + 364*_t0**2*x**4 - 480*_t0**2*x**3 + 648*_t0**2*x**2 - 432*_t0**2*x + 324*_t0**2 + 4*_t0*x**11 - 12*_t0*x**10 + 48*_t0*x**9 - 76*_

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4845

2.4.735 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{4x}(-256 + 64x) + (16 - 5x) \log(2) + (-256 + 64x) \log^2(2) + e^{2x}(-256 - 192x + 64x^2) + (16x - 4x^2) \log(2) + (-256 - 192x + 64x^2) \log^2(2) + e^{2x}(-16x + 4x^2 + \dots)}{e^{4x}(-256 - 192x + 64x^2) + (16x - 4x^2) \log(2) + (-256 - 192x + 64x^2) \log^2(2) + e^{2x}(-16x + 4x^2 + \dots)}$$

= Exception raised: PolynomialError

```
[In] integrate((((4*x-16)*exp(x)**4+(-8*x+32)*ln(2)*exp(x)**2+(4*x-16)*ln(2)**2)*ln(-4/(x-4))**2+((32*x-128)*exp(x)**4+((-64*x+256)*ln(2)-2*x**2+9*x-4)*exp(x)**2+(32*x-128)*ln(2)**2+(-x+4)*ln(2))*ln(-4/(x-4))+(64*x-256)*exp(x)**4+((-128*x+512)*ln(2)-8*x**2+37*x-16)*exp(x)**2+(64*x-256)*ln(2)**2+(-5*x+16)*ln(2))/(((4*x**2-12*x-16)*exp(x)**4+(-8*x**2+24*x+32)*ln(2)*exp(x)**2+(4*x**2-12*x-16)*ln(2)**2)*ln(-4/(x-4))**2+((32*x**2-96*x-128)*exp(x)**4+((-64*x**2+192*x+256)*ln(2)+x**2-4*x)*exp(x)**2+(32*x**2-96*x-128)*ln(2)**2+(-x**2+4*x)*ln(2))*ln(-4/(x-4))+(64*x**2-192*x-256)*exp(x)**4+((-128*x**2+384*x+512)*ln(2)+4*x**2-16*x)*exp(x)**2+(64*x**2-192*x-256)*ln(2)**2+(-4*x**2+16*x)*ln(2)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(4*_t0**2*x**3 - 8*_t0**2*x**2 - 28*_t0**2*x - 16*_t0**2 + 32*_t0*x**3 - 64*_t0*x**2 - 224*_t0*x - 128*_t0 + 64*x**3 - 128*x**2 - 448*x - 256) contains an element of the set of generator s.
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 4911**2.4.736 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(6x^2 + 2x^3) \log(1-x) + (3+x-4x^2) \log^2(1-x) + ((6x+2x^2) \log(1-x) + (-x+x^2) \log^2(1-x))}{-x^3 + x^4 + (-2x^2 + 2x^3) \log(x) + (-x+x^2) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((((x**2-x)*ln(1-x)**2+(2*x**2+6*x)*ln(1-x))*ln(x)+(-4*x**2+x+3)*ln(1-x)**2+(2*x**3+6*x**2)*ln(1-x))/((x**2-x)*ln(x)**2+(2*x**3-2*x**2)*ln(x)+x**4-x**3),x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 4944

2.4.737 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^x x \log(x) + e^x x^2 \log^2(x) + e^{3e^{-x}} \left(-3e^{3e^{-x}} x \log(x) + e^x x \log^2(x)\right) + \left(-e^{e^{3e^{-x}+x}} - e^x x\right) \log\left(e^{e^{3e^{-x}}} + x\right)}{e^{e^{3e^{-x}+x}} x \log^2(x) + e^x x^2 \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((( -exp(x)*exp(exp(3/exp(x)))-exp(x)*x)*ln(exp(exp(3/exp(x)))+x)+(
-3*x*ln(x)*exp(3/exp(x))+x*exp(x)*ln(x)**2)*exp(exp(3/exp(x)))+x**2*exp(x)*
ln(x)**2+x*exp(x)*ln(x))/(x*exp(x)*ln(x)**2*exp(exp(3/exp(x)))+x**2*exp(x)*
ln(x)**2),x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5357

2.4.738 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8x + 8x^2 + (3x - 4x^2 + x^3) \log(x)) \log\left(\frac{1}{3}(8 + (-3 + x) \log(x))\right) + (-6 + 8x - 2x^2 + (2x - 2x^2) \log(x)) \log\left(\frac{1}{3}(8 + (-3 + x) \log(x))\right)}{\dots}$$

= Exception raised: TypeError

```
[In] integrate(((2*x*ln(x)+2*x-6)*ln(ln(1/3*ln(x)*(-3+x)+8/3))**3+((-x**2+3*x)*1
n(x)-8*x)*ln(1/3*ln(x)*(-3+x)+8/3)*ln(ln(1/3*ln(x)*(-3+x)+8/3))**2+((-2*x**
2+2*x)*ln(x)-2*x**2+8*x-6)*ln(ln(1/3*ln(x)*(-3+x)+8/3))+((x**3-4*x**2+3*x)*
```

```
ln(x)+8*x**2-8*x)*ln(1/3*ln(x)*(-3+x)+8/3))/((2*x**2-6*x)*ln(x)+16*x)/ln(1/
3*ln(x)*(-3+x)+8/3),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5388

2.4.739 Sympy [F(-2)]

Exception generated.

$$\int \frac{-2x^3 + x^5 + (2x^3 - x^5) \log\left(\frac{x}{3}\right) + (320 - 240x - 160x^2 + 62x^3 - 20x^4 + 29x^5 + 10x^6) \log^2\left(\frac{x}{3}\right) + (-2x^4 \log\left(\frac{x}{3}\right) + (80x - 120x^2 + \dots)}{-x^4 \log\left(\frac{x}{3}\right) + (80x - 120x^2 + \dots)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((10*x**6+58*x**5+10*x**4-240*x**3+160*x**2)*ln(1/3*x)**2-2*x**5
*ln(1/3*x))*ln((-5*x**4-29*x**3-5*x**2+120*x-80)*ln(1/3*x)+x**3)/x**2/ln(1
/3*x))+(10*x**6+29*x**5-20*x**4+62*x**3-160*x**2-240*x+320)*ln(1/3*x)**2+(-
x**5+2*x**3)*ln(1/3*x)+x**5-2*x**3)/((5*x**5+29*x**4+5*x**3-120*x**2+80*x)*
ln(1/3*x)**2-x**4*ln(1/3*x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(25*x**9 + 290*x**8 + 891*x**7 - 910
*x**6 - 6135*x**5 + 3440*x**4 + 15200*x**3 - 19200*x**2 + 6400*x) contains
an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5392

2.4.740 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1250}{x \log(2x)}} (-2500 - 2500 \log(2x)) + e^{-\frac{2500}{x \log(2x)}} (2500 + 2500 \log(2x))}{x^2 \log^2(2x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((2500*ln(2*x)+2500)*exp(-1250/x/ln(2*x))**2+(-2500*ln(2*x)-2500)
*exp(-1250/x/ln(2*x)))/x**2/ln(2*x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5539

2.4.741 Sympy [F(-2)]

Exception generated.

$$\int \frac{50 - 9x + (-3x + 2x^2) \log\left(\frac{5}{x}\right) + (-7x - 2x^2) \log^2\left(\frac{5}{x}\right) + (-x + 2x^2) \log^3\left(\frac{5}{x}\right)}{-27x + x^2 + (31x + 7x^2) \log\left(\frac{5}{x}\right) + (-6x - 7x^2 - x^3) \log^2\left(\frac{5}{x}\right) + (2x - x^2 + x^3) \log^3\left(\frac{5}{x}\right)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((2*x**2-x)*ln(5/x)**3+(-2*x**2-7*x)*ln(5/x)**2+(2*x**2-3*x)*ln(5
/x)-9*x+50)/((x**3-x**2+2*x)*ln(5/x)**3+(-x**3-7*x**2-6*x)*ln(5/x)**2+(7*x*
*2+31*x)*ln(5/x)+x**2-27*x),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**10 - 4*x**9 + 14*x**8 - 28*x**7
+ 49*x**6 - 56*x**5 + 56*x**4 - 32*x**3 + 16*x**2) contains an element of t
he set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5561

2.4.742 Sympy [F(-2)]

Exception generated.

$$\int \frac{5^{\frac{5}{(x+x^2 \log(5)) \log(x)}} e^{-4+5^{\frac{5}{(x+x^2 \log(5)) \log(x)}}} (-5 \log(5) - 5x \log^2(5) + (-5 \log(5) - 10x \log^2(5)) \log(x))}{(x^2 + 2x^3 \log(5) + x^4 \log^2(5)) \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((-10*x*ln(5)**2-5*ln(5))*ln(x)-5*x*ln(5)**2-5*ln(5))*exp(5*ln(5)
/(x**2*ln(5)+x)/ln(x))*exp(exp(5*ln(5)/(x**2*ln(5)+x)/ln(x))-4)/(x**4*ln(5)
**2+2*x**3*ln(5)+x**2)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 5630**2.4.743 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(-30 - 12x^2 - 6x^3 + 6x^4) \log^2\left(\frac{5+2x^2+x^3-x^4}{x^2}\right) + \log\left(\frac{2}{x}\right) \left((60 - 6x^3 + 12x^4) \log\left(\frac{5+2x^2+x^3-x^4}{x^2}\right) + (30 + (-5x^3 - 2x^5 - x^6 + x^7) \log^3\left(\frac{2}{x}\right))\right)}{(-5x^3 - 2x^5 - x^6 + x^7) \log^3\left(\frac{2}{x}\right)}$$

= Exception raised: TypeError

```
[In] integrate(((((-6*x**4+6*x**3+12*x**2+30)*ln((-x**4+x**3+2*x**2+5)/x**2)**2+(
12*x**4-6*x**3+60)*ln((-x**4+x**3+2*x**2+5)/x**2))*ln(2/x)+(6*x**4-6*x**3-1
2*x**2-30)*ln((-x**4+x**3+2*x**2+5)/x**2)**2)/(x**7-x**6-2*x**5-5*x**3)/ln(
2/x)**3,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 5647

2.4.744 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{3}(-4-15x)} \left(-75 \log^2(x) + e^{\frac{2}{3}(-1+e^{\frac{x}{\log(x)}})} \left(-75 \log^2(x) + e^{\frac{x}{\log(x)}} (-10 + 10 \log(x)) \right) \right)}{\log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((10*ln(x)-10)*exp(x/ln(x))-75*ln(x)**2)*exp(1/3*exp(x/ln(x)))-1/3)**2-75*ln(x)**2)/exp(5*x+4/3)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5655

2.4.745 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-250x^2 + 50x^3) \log(x) \log(3 + x) + (375x + 50x^2 - 25x^3 + (-750x - 250x^2) \log(x)) \log^2(3 + x)}{(-54000 + 14400x + 4320x^2 - 1728x^3 + 144x^4) \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-250*x**2-750*x)*ln(x)-25*x**3+50*x**2+375*x)*ln(3+x)**2+(50*x**3-250*x**2)*ln(x)*ln(3+x))/(144*x**4-1728*x**3+4320*x**2+14400*x-54000)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5656

2.4.746 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{4\log(x)}} \left(-e^{\frac{625-1000x+100x^2+440x^3-71x^4-88x^5+4x^6+8x^7+x^8}{x^4}} x^5 - x^6 - x^7 + \left(e^{\frac{625-1000x+100x^2+440x^3-71x^4-88x^5+4x^6+8x^7+x^8}{x^4}} \right) \right)}{\dots}$$

= Exception raised: TypeError

```
[In] integrate(1/4*((16*x**8+96*x**7+32*x**6-352*x**5-1760*x**3-800*x**2+12000*x-10000)*exp((x**8+8*x**7+4*x**6-88*x**5-71*x**4+440*x**3+100*x**2-1000*x+625)/x**4)+8*x**6+4*x**5)*ln(x)**2+(x**5*exp((x**8+8*x**7+4*x**6-88*x**5-71*x**4+440*x**3+100*x**2-1000*x+625)/x**4)+x**7+x**6)*ln(x)-x**5*exp((x**8+8*x**7+4*x**6-88*x**5-71*x**4+440*x**3+100*x**2-1000*x+625)/x**4)-x**7-x**6)*exp(1/4*x/ln(x))/x**5/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5688

2.4.747 Sympy [F(-2)]

Exception generated.

$$\int \frac{(3 + 12x^2) \log^2(x) + e^{\frac{4+4x \log(x)}{x \log(x)}} (-80x - 80x \log(x) + 60x^2 \log^2(x)) + e^{\frac{2(4+4x \log(x))}{x \log(x)}} (-200x - 200x \log(x))}{\log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate(((75*x**2*ln(x)**2-200*x*ln(x)-200*x)*exp((4*x*ln(x)+4)/x/ln(x))*2+(60*x**2*ln(x)**2-80*x*ln(x)-80*x)*exp((4*x*ln(x)+4)/x/ln(x))+(12*x**2+3)*ln(x)**2)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5709

2.4.748 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x^3}{4+2x+\log(2+x)}} (16 + 16x + 28x^2 + 19x^3 + 4x^4 + (8 + 4x + 6x^2 + 3x^3) \log(2+x) + \log^2(2+x))}{16 + 16x + 4x^2 + (8 + 4x) \log(2+x) + \log^2(2+x)} dx$$

= Exception raised: TypeError

```
[In] integrate((ln(2+x)**2+(3*x**3+6*x**2+4*x+8)*ln(2+x)+4*x**4+19*x**3+28*x**2+
16*x+16)*exp(x**3/(ln(2+x)+2*x+4))/(ln(2+x)**2+(4*x+8)*ln(2+x)+4*x**2+16*x+
16),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5746

2.4.749 Sympy [F(-2)]

Exception generated.

$$\int \frac{-8x + 8x^2 + (8x - 16x^2) \log(x) + \frac{e^{-3+x^2}(-2x+2x^2+(6x-4x^2-8x^3)\log(x))}{x}}{e^{-3+x^2} \log^2(x) + 4x}$$

= Exception raised: TypeError

```
[In] integrate(((2*exp(-ln(x)+x**2-3)+8)*ln(ln(5)*exp(-ln(x)+x**2-3)+4*ln(5))**2
+(((8*x**2-4*x+4)*ln(x)+4*x)*exp(-ln(x)+x**2-3)-16*x*ln(x)+16*x)*ln(ln(5)*
exp(-ln(x)+x**2-3)+4*ln(5))+((-8*x**3-4*x**2+6*x)*ln(x)+2*x**2-2*x)*exp(-ln
(x)+x**2-3)+(-16*x**2+8*x)*ln(x)+8*x**2-8*x)/(x*ln(x)**2*exp(-ln(x)+x**2-3)
+4*x*ln(x)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 5942

2.4.750 Sympy [F(-2)]

Exception generated.

$$\int \frac{e(-30x^4 - 5x^5) + (x^3 + 30x^5 + 5x^6) \log^2(x) + (e(60x^2 + 10x^3) + (-x - 60x^3 - 10x^4) \log^2(x)) \log(2x)}{(30x^5 + 5x^6) \log^2(x) + (-60x^3 - 10x^4) \log^2(x) \log(2x)}$$

= Exception raised: TypeError

```
[In] integrate((((5*x**2+30*x)*ln(x)**2+(-5*x-30)*exp(1))*ln(2*x)**2+((-10*x**4-60*x**3-x)*ln(x)**2+(10*x**3+60*x**2)*exp(1))*ln(2*x)+(-2*x**3-12*x**2+x+6)*ln(x)**2*ln(6+x)+(5*x**6+30*x**5+x**3)*ln(x)**2+(-5*x**5-30*x**4)*exp(1))/((5*x**2+30*x)*ln(x)**2*ln(2*x)**2+(-10*x**4-60*x**3)*ln(x)**2*ln(2*x)+(5*x**6+30*x**5)*ln(x)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 5964**2.4.751 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\left(\frac{16}{e^{25}} + x\right) \log\left(\frac{16}{e^{25}} + x\right) + \left(\frac{16x}{e^{25}} + x^2\right) \log(x) \log^2\left(\frac{16}{e^{25}} + x\right) + \left(-x \log(x) + \left(-\frac{16}{e^{25}} - x\right) \log(x) \log\left(\frac{16}{e^{25}} + x\right)\right)}{\left(\frac{16x^2}{e^{25}} + x^3\right) \log(x) \log^2\left(\frac{16}{e^{25}} + x\right)}$$

= Exception raised: TypeError

```
[In] integrate(((((-exp(4*ln(2)-25)-x)*ln(x)*ln(exp(4*ln(2)-25)+x)-x*ln(x))*ln(ln(x))+x*exp(4*ln(2)-25)+x**2)*ln(x)*ln(exp(4*ln(2)-25)+x)**2+(exp(4*ln(2)-25)+x)*ln(exp(4*ln(2)-25)+x))/(x**2*exp(4*ln(2)-25)+x**3)/ln(x)/ln(exp(4*ln(2)-25)+x)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 6025

2.4.752 Sympy [F(-2)]

Exception generated.

$$\int \frac{(8x^2 - 50x^3 - 2x^4 - 16x^5 + 100x^6 + 4x^7) \log^2\left(\frac{1}{x}\right) + (8 - 50x - 2x^2) \log(4 - 25x - x^2) + \log\left(\frac{1}{x}\right) (-50x^2 + 25x^3 + x^4) \log^2\left(\frac{1}{x}\right)}{(-4x^2 + 25x^3 + x^4) \log^2\left(\frac{1}{x}\right)}$$

= Exception raised: TypeError

```
[In] integrate(((4*x**7+100*x**6-16*x**5-2*x**4-50*x**3+8*x**2)*ln(1/x)**2+((2*x**2+50*x-8)*ln(-x**2-25*x+4)-4*x**2-50*x)*ln(1/x)+(-2*x**2-50*x+8)*ln(-x**2-25*x+4))/(x**4+25*x**3-4*x**2)/ln(1/x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 6249**2.4.753 Sympy [F(-2)]**

Exception generated.

$$\int \frac{\log(x) \log^2(\log(x)) + e^{\frac{3x}{\log(\log(x))}} (-3 + 3 \log(x) \log(\log(x)))}{\log(x) \log^2(\log(x))} dx$$

= Exception raised: TypeError

```
[In] integrate(((3*ln(x)*ln(ln(x))-3)*exp(3/2*x/ln(ln(x))))**2+ln(x)*ln(ln(x))**2)/ln(x)/ln(ln(x))**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 6406

2.4.754 Sympy [F(-2)]

Exception generated.

$$\int \frac{2x \log(x) + (-216x^3 + 216x^4 - 72x^5 + 8x^6) \log^3(x) + (6 - 2x + (6 - 4x) \log(x)) \log(9 - 6x + x^2)}{(-27x^3 + 27x^4 - 9x^5 + x^6) \log^3(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((6-4*x)*ln(x)+6-2*x)*ln(x**2-6*x+9)+(8*x**6-72*x**5+216*x**4-216*x**3)*ln(x)**3+2*x*ln(x))/(x**6-9*x**5+27*x**4-27*x**3)/ln(x)**3,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6477

2.4.755 Sympy [F(-2)]

Exception generated.

$$\int \frac{(16x - 16x^2 + (96x - 48x^2 + (-32x + 16x^2) \log(x)) \log(-3 + \log(x))) \log^3\left(-\frac{x^2 \log(3)}{(-2+2x) \log(-3+\log(x))}\right) + (3 - 3x + (-1 + x) \log(x)) \log(-3 + \log(x))}{(3 - 3x + (-1 + x) \log(x)) \log(-3 + \log(x))} dx$$

= Exception raised: TypeError

```
[In] integrate((((8*x**2-8*x)*ln(x)-24*x**2+24*x)*ln(ln(x)-3)*ln(-x**2*ln(3)/(-2+2*x)/ln(ln(x)-3))**4+(((16*x**2-32*x)*ln(x)-48*x**2+96*x)*ln(ln(x)-3)-16*x**2+16*x)*ln(-x**2*ln(3)/(-2+2*x)/ln(ln(x)-3))**3)/((-1+x)*ln(x)-3*x+3)/ln(ln(x)-3),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6591

2.4.756 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{7-e^{-x+\log(10+5x)}} \left(2x^2 + x^3 + (-4x - 2x^2) \log(10 + 5x) + (2 + x) \log^2(10 + 5x) + e^{-x+\log(10+5x)} (-x^2 + \dots \right)}{2x^2 + x^3 + (-4x - 2x^2) \log(10 + 5x) + (2 + x) \log^2(10 + 5x)}$$

= Exception raised: TypeError

```
[In] integrate((((x**2+2*x)*ln(5*x+10)-x**2)*exp(-x/(ln(5*x+10)-x))+(2+x)*ln(5*x+10)**2+(-2*x**2-4*x)*ln(5*x+10)+x**3+2*x**2)/((2+x)*ln(5*x+10)**2+(-2*x**2-4*x)*ln(5*x+10)+x**3+2*x**2)/exp(exp(-x/(ln(5*x+10)-x))-7),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6618

2.4.757 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-8+x-2\log(x)+10x\log(4-2x-\log(5))}{2x\log(4-2x-\log(5))}} (8x - x^2 + (-12 + 6x + 3\log(5)) \log(4 - 2x - \log(5)) + \log(x)(2x + (-4 + \dots))}{(-4x^2 + 2x^3 + x^2 \log(5)) \log^2(4 - 2x - \log(5))}$$

= Exception raised: TypeError

```
[In] integrate((((ln(5)+2*x-4)*ln(-ln(5)+4-2*x)+2*x)*ln(x)+(3*ln(5)+6*x-12)*ln(-ln(5)+4-2*x)-x**2+8*x)*exp(1/2*(-2*ln(x)+10*x*ln(-ln(5)+4-2*x)-8+x)/x/ln(-ln(5)+4-2*x))/(x**2*ln(5)+2*x**3-4*x**2)/ln(-ln(5)+4-2*x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6634

2.4.758 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-6 - 60x + 24x^2 + e^x(-12x - 12x^2)) \log^2(x) + ((2 + 20x - 8x^2 + e^x(4x + 4x^2)) \log(x) + ((60x + 12$$

= Exception raised: TypeError

```
[In] integrate(((((-2*ln(x)-4*exp(x)*x+4*x**2-20*x)*ln(ln(x)+2*exp(x)*x-2*x**2+10*x)*ln(ln(ln(x)+2*exp(x)*x-2*x**2+10*x))**2+((6*ln(x)**2+(12*exp(x)*x-12*x**2+60*x)*ln(x))*ln(ln(x)+2*exp(x)*x-2*x**2+10*x))+((4*x**2+4*x)*exp(x)-8*x**2+20*x+2)*ln(x))*ln(ln(ln(x)+2*exp(x)*x-2*x**2+10*x))+((-12*x**2-12*x)*exp(x)+24*x**2-60*x-6)*ln(x)**2)/(x*ln(x)**4+(2*exp(x)*x**2-2*x**3+10*x**2)*ln(x)**3)/ln(ln(x)+2*exp(x)*x-2*x**2+10*x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6684

2.4.759 Sympy [F(-2)]

Exception generated.

$$\int \frac{2496x \log(1 - 2x) + (240 - 480x) \log^2(1 - 2x) + (-768x \log(1 - 2x) + (-192 + 384x) \log^2(1 - 2x)) \log(x)}{-169x^2 + 338x^3 + (104x^2 - 208x^3) \log(x^2) + (-16x^2 + 32x^3) \log^2(x^2)}$$

= Exception raised: TypeError

```
[In] integrate((((384*x-192)*ln(1-2*x)**2-768*x*ln(1-2*x))*ln(x**2)+(-480*x+240)*ln(1-2*x)**2+2496*x*ln(1-2*x))/((32*x**3-16*x**2)*ln(x**2)**2+(-208*x**3+104*x**2)*ln(x**2)+338*x**3-169*x**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6685

2.4.760 Sympy [F(-2)]

Exception generated.

$$\int \frac{1-x}{\left(x^2 + x \log\left(\frac{4}{x}\right)\right) \log\left(x + \log\left(\frac{4}{x}\right)\right) + \left(2x^2 + 2x \log\left(\frac{4}{x}\right)\right) \log^2\left(x + \log\left(\frac{4}{x}\right)\right)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((1-x)/((2*x*ln(4/x)+2*x**2)*ln(ln(4/x)+x)**2+(x*ln(4/x)+x**2)*ln(ln(4/x)+x))),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(_t0*x + x**2) contains an element o
f the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6771

2.4.761 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-3+x) \log(3-x) + \frac{e^{e^{e^5}} + \frac{e^{e^{e^5}}(e^3+x)}{\log(3-x)}}{(-3x+x^2) \log(3-x)} (-e^3x-x^2+(-3x+x^2) \log(3-x))}{(-3x+x^2) \log(3-x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((x**2-3*x)*ln(-x+3)-x*exp(3)-x**2)*exp(-ln(ln(-x+3))+exp(exp(5)
))*exp((exp(3)+x)*exp(-ln(ln(-x+3))+exp(exp(5))))+(-3*x)*ln(-x+3))/(x**2-3*
x)/ln(-x+3),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6772

2.4.762 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^5(-10 - 2x + 10x^2 + 2x^3) + e^{10}(10 - 8x - 2x^2) \log^2(5 + x) + \log\left(\frac{3e^x}{x}\right) (e^5(-10x - 2x^2) + 4e^{10}x \log(5 + x))}{5x + 11x^2 + 7x^3 + x^4 + e^5(-10x - 12x^2 - 2x^3) \log^2(5 + x) + e^{10}(5x + x^2) \log^4(5 + x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((4*x*exp(5)**2*ln(5+x)+(-2*x**2-10*x)*exp(5))*ln(exp(ln(3)+x)/x)
+(-2*x**2-8*x+10)*exp(5)**2*ln(5+x)**2+(2*x**3+10*x**2-2*x-10)*exp(5))/((x*
*2+5*x)*exp(5)**2*ln(5+x)**4+(-2*x**3-12*x**2-10*x)*exp(5)*ln(5+x)**2+x**4+
7*x**3+11*x**2+5*x), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly'
and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6869

2.4.763 Sympy [F(-2)]

Exception generated.

$$\int \frac{15 2^{1-2e^{e^2}} e^{e^2} (6 - 2e^6 - 3x)^{2e^{e^2}}}{-6 + 2e^6 + 3x} dx = \text{Exception raised: TypeError}$$

```
[In] integrate(30*exp(exp(2))*exp(exp(exp(2))*ln(-exp(6)-3/2*x+3))**2/(2*exp(6)+
3*x-6), x)
```

```
[Out] Exception raised: TypeError >> Invalid NaN comparison
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6875

2.4.764 Sympy [F(-2)]

Exception generated.

$$\int \frac{-2x^2 - 4x^3 + x^4 + (8x + 18x^2 - x^4) \log(4 + x) + (-8x - 18x^2 + x^4) \log^2(4 + x) + ((-8x - 2x^2 - 4x^3) \log(4 + x) + (-4x^3 - x^4) \log(4 + x) + (-4x^2 + 3x^3))}{(-4x^3 - x^4) \log(4 + x) + (-4x^2 + 3x^3)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((x**4+3*x**3-2*x**2+6*x-8)*ln(4+x)**2+(-x**4-4*x**3-2*x**2-8*x)
*ln(4+x))*ln(((2-2*x)*ln(4+x)+2*x)/ln(4+x))+ (x**4-18*x**2-8*x)*ln(4+x)**2+(
-x**4+18*x**2+8*x)*ln(4+x)+x**4-4*x**3-2*x**2)/((x**4+3*x**3-4*x**2)*ln(4+x)
)**2+(-x**4-4*x**3)*ln(4+x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**3 + 2*x**2 - 7*x + 4) contains a
n element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 6957

2.4.765 Sympy [F(-2)]

Exception generated.

$$\int \frac{-x^2 + 3x^2 \log(x) - 5 \log(4) \log^2(x)}{-x^3 \log(x) + (-5 + 5x \log(4)) \log^2(x)} dx = \text{Exception raised: PolynomialError}$$

```
[In] integrate((-10*ln(2)*ln(x)**2+3*x**2*ln(x)-x**2)/((10*x*ln(2)-5)*ln(x)**2-x
**3*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(20*x**3*log(2)**2 - 20*x**2*log(2)
+ 5*x) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7148

2.4.766 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-20x + e^{3+2x}(16x + 16x^2 + 4x^3)) \log(x) \log\left(\frac{-5x + e^{3+2x}(2+x)}{2+x}\right) + (20x + 10x^2 + e^{3+2x}(-8 - 8x - 2x^2)) \log^5(x)}{(-10x - 5x^2 + e^{3+2x}(4 + 4x + x^2)) \log^5(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((x**2+4*x+4)*exp(3+2*x)-5*x**2-10*x)*ln(x)+(-2*x**2-8*x-8)*exp(3+2*x)+10*x**2+20*x)*ln(((2+x)*exp(3+2*x)-5*x)/(2+x))**2+((4*x**3+16*x**2+16*x)*exp(3+2*x)-20*x)*ln(x)*ln(((2+x)*exp(3+2*x)-5*x)/(2+x)))/((x**2+4*x+4)*exp(3+2*x)-5*x**2-10*x)/ln(x)**3,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7164

2.4.767 Sympy [F(-2)]

Exception generated.

$$\int \frac{9x + 12x^2 + 18x^3 - 6x^4 - 6x^2 \log(x) + (24x^2 - 12x^4 - 12x^2 \log(x) + (-36x + 18x^3 + 18x \log(x)) \log(x))}{4x - 2x^3 - 2x \log(x) + (-6 + 3x^2 + 3 \log(x)) \log(-2 + x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((18*x*ln(x)+18*x**3-36*x)*ln(ln(x)+x**2-2)-12*x**2*ln(x)-12*x**4+24*x**2)*ln(3*ln(ln(x)+x**2-2)-2*x)-6*x**2*ln(x)-6*x**4+18*x**3+12*x**2+9*x)/((3*ln(x)+3*x**2-6)*ln(ln(x)+x**2-2)-2*x*ln(x)-2*x**3+4*x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7265

2.4.768 Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{20+5x+x \log(x)+5 \log^2(x)}{4+x+\log^2(x)}} \frac{(-128 - 56x - 6x^2 + 8x \log(x) + (-64 - 18x) \log^2(x) + 2x \log^3(x) - 8 \log^4(x))}{16x^5 + 8x^6 + x^7 + (8x^5 + 2x^6) \log^2(x) + x^5 \log^4(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((-8*ln(x)**4+2*x*ln(x)**3+(-18*x-64)*ln(x)**2+8*x*ln(x)-6*x**2-56*x-128)*exp((5*ln(x)**2+x*ln(x)+20+5*x)/(ln(x)**2+4*x))/(x**5*ln(x)**4+(2*x**6+8*x**5)*ln(x)**2+x**7+8*x**6+16*x**5),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7313

2.4.769 Sympy [F(-2)]

Exception generated.

$$\int \frac{((-320 - 16x - 1280x^2 - 64x^3) \log\left(\frac{20+x}{4}\right) + (1280x^2 + 64x^3) \log(x^2) \log\left(\frac{20+x}{4}\right)) \log\left(\frac{16+64x^2}{\log(x^2)}\right) + (-4x^2 - 16x - 1280x^2 - 64x^3) \log^2\left(\frac{20+x}{4}\right)}{(20x + x^2 + 80x^3 + 4x^4) \log(x^2) \log^2\left(\frac{20+x}{4}\right)}$$

= Exception raised: TypeError

```
[In] integrate((((-16*x**3-4*x)*ln(x**2)*ln((64*x**2+16)/ln(x**2))**2+((64*x**3+1280*x**2)*ln(5+1/4*x)*ln(x**2)+(-64*x**3-1280*x**2-16*x-320)*ln(5+1/4*x))*ln((64*x**2+16)/ln(x**2)))/(4*x**4+80*x**3+x**2+20*x)/ln(5+1/4*x)**2/ln(x**2)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7350

2.4.770 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{12}{(-15+20x)\log(x\log^2(2))}} (72 - 96x - 96x \log(x\log^2(2)))}{(45x - 120x^2 + 80x^3) \log^2(x\log^2(2))} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((-96*x*ln(x*ln(2)**2)-96*x+72)*exp(12/(20*x-15)/ln(x*ln(2)**2))/(80*x**3-120*x**2+45*x)/ln(x*ln(2)**2)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7422

2.4.771 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8x + 12x^2 + 72x^3 + 32x^4) \log(x) + (64 - 216x - 148x^2 - 44x^3 - 16x^4 + (224x + 284x^2 + 60x^3 + 32x^4) \log(x))}{(8x + x^2 + x^3) \log^2(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((((32*x**4+60*x**3+284*x**2+224*x)*ln(x)-16*x**4-44*x**3-148*x**2-216*x+64)*ln(x**2+x+8)+(32*x**4+72*x**3+12*x**2-8*x)*ln(x))/(x**3+x**2+8*x)/ln(x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7508

2.4.772 Sympy [F(-2)]

Exception generated.

$$\int \frac{2358774e^{2x} + 2358774e^x x^2}{5x^2 + e^{2x}(5+x) + e^x(10x+x^2)} dx = \text{Exception raised: PolynomialError}$$

```
[In] integrate((2358774*exp(x)**2+2358774*exp(x)*x**2)/((5+x)*exp(x)**2+(x**2+10*x)*exp(x)+5*x**2),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**2 + 10*x + 25) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7569

2.4.773 Sympy [F(-2)]

Exception generated.

$$\int \frac{16x^2 + (160x + 32x^2) \log(2) + e^x(-8x^2 + (-40x - 36x^2) \log(2) + (40x + (100 + 180x) \log(2)) \log(2))}{16x^3 + (80x^2 + 32x^3) \log(2) + e^x(-8x^3 + (-20x^2 - 16x^3) \log(2) + (40x^2 + (100x + 80x^2) \log(2)) \log(2))} dx = \text{Exception raised: PolynomialError}$$

```
[In] integrate((((50*ln(2)+25)*ln(5)**2+(-20*x*ln(2)-10*x)*ln(5)+2*x**2*ln(2)+x**2)*exp(x)**2+(((180*x+100)*ln(2)+40*x)*ln(5)+(-36*x**2-40*x)*ln(2)-8*x**2)*exp(x)+(32*x**2+160*x)*ln(2)+16*x**2)/(((50*x*ln(2)+25*x)*ln(5)**2+(-20*x**2*ln(2)-10*x**2)*ln(5)+2*x**3*ln(2)+x**3)*exp(x)**2+(((80*x**2+100*x)*ln(2)+40*x**2)*ln(5)+(-16*x**3-20*x**2)*ln(2)-8*x**3)*exp(x)+(32*x**3+80*x**2)*ln(2)+16*x**3),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**2 + 2*x**2*log(2) - 20*x*log(2)*log(5) - 10*x*log(5) + 25*log(5)**2 + 50*log(2)*log(5)**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7573

2.4.774 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^4(4 - 4x + 9x^2 - 9x^3) + (36x^3 - 36x^2 \log(x)) \log(48 + 108x^2) + (4 - 4x + 9x^3) \log(x) + e^4(-4x^2 - 9x^4) + e^4(4x + 9x^3) \log(x) + (-4x^2 - 9x^4 + e^4(8x + 18x^3) + (4x + 9x^3) \log(x))}{e^8(4x + 9x^3) + e^4(-4x^2 - 9x^4) + e^4(4x + 9x^3) \log(x) + (-4x^2 - 9x^4 + e^4(8x + 18x^3) + (4x + 9x^3) \log(x))} dx$$

= Exception raised: PolynomialError

```
[In] integrate((( -9*x**3+9*x**2-4*x+4)*ln(108*x**2+48)**2+(-36*x**2*ln(x)+36*x**3)*ln(108*x**2+48)+(-9*x**3+9*x**2-4*x+4)*exp(4))/((9*x**3+4*x)*ln(108*x**2+48)**4+((9*x**3+4*x)*ln(x)+(18*x**3+8*x)*exp(4)-9*x**4-4*x**2)*ln(108*x**2+48)**2+(9*x**3+4*x)*exp(4)*ln(x)+(9*x**3+4*x)*exp(4)**2+(-9*x**4-4*x**2)*exp(4)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(81*x**6 + 72*x**4 + 16*x**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7592

2.4.775 Sympy [F(-2)]

Exception generated.

$$\int \frac{-25x + \left(100e^{2e \frac{4e^5 + \log(5)}{e^5}} - 25x\right) \log\left(4e^{2e \frac{4e^5 + \log(5)}{e^5}} - x\right) \log\left(\log\left(4e^{2e \frac{4e^5 + \log(5)}{e^5}} - x\right)\right)}{\left(4e^{2e \frac{4e^5 + \log(5)}{e^5}} - x\right) \log\left(4e^{2e \frac{4e^5 + \log(5)}{e^5}} - x\right)} dx$$

= Exception raised: CoercionFailed

```
[In] integrate(((100*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-25*x)*ln(4*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-x)*ln(ln(4*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-x))-25*x)/(4*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-x)/ln(4*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-x),x)
```

```
[Out] Exception raised: CoercionFailed >> Cannot convert x - 4*exp(2*5**exp(-5)*exp(4)) of type <class 'sympy.core.add.Add'> to QQ[x,exp(5**exp(-5)*exp(4))]
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7616

2.4.776 Sympy [F(-2)]

Exception generated.

$$\int \frac{-9 + e^{e^x}(-3 - 3e^x x - 6 \log(5)) + e^{2e^x}(-\log(5) - \log^2(5))}{-90 + 45x + e^{e^x}(15x + (-60 + 30x) \log(5)) + e^{2e^x}(5x \log(5) + (-10 + 5x) \log^2(5))} dx$$

= Exception raised: PolynomialError

```
[In] integrate((( -ln(5)**2 - ln(5)) * exp(exp(x))**2 + (-3*exp(x)*x - 6*ln(5) - 3) * exp(exp(x)) - 9) / (((5*x - 10) * ln(5)**2 + 5*x*ln(5)) * exp(exp(x))**2 + ((30*x - 60) * ln(5) + 15*x) * exp(exp(x)) + 45*x - 90), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(5*x**2*log(5) + 5*x**2*log(5)**3 + 10*x**2*log(5)**2 - 20*x*log(5)**3 - 20*x*log(5)**2 + 20*log(5)**3) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7679

2.4.777 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x-x^3 \log(x)}{\log^2(x)}} (2 + (-1 - x^2) \log(x) + 3x^2 \log^2(x))}{\log^3(x)} dx = \text{Exception raised: TypeError}$$

```
[In] integrate((3*x**2*ln(x)**2 + (-x**2 - 1) * ln(x) + 2) * exp((-x**3*ln(x) + x) / ln(x)**2) / ln(x)**3, x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7742

2.4.778 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-e+\log(3)}{-20-x+x\log(x)}}(e-\log(3))\log(x)}{400+40x+x^2+(-40x-2x^2)\log(x)+x^2\log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((-ln(3)+exp(1))*ln(x)*exp((ln(3)-exp(1))/(x*ln(x)-x-20))/(x**2*ln(x)**2+(-2*x**2-40*x)*ln(x)+x**2+40*x+400), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7758

2.4.779 Sympy [F(-2)]

Exception generated.

$$\int \frac{390625 \log(x) - x \log^2(x) + (390625 + x \log^2(x)) \log(x \log(3)) + x \log^2(x) \log^2(x \log(3))}{(-390625x \log(x) + x^2 \log^2(x)) \log(x \log(3)) + (x + x^2) \log^2(x) \log^2(x \log(3))} dx$$

= Exception raised: PolynomialError

```
[In] integrate((x*ln(x)**2*ln(x*ln(3)))**2+(x*ln(x)**2+390625)*ln(x*ln(3))-x*ln(x)**2+390625*ln(x))/((x**2+x)*ln(x)**2*ln(x*ln(3))**2+(x**2*ln(x)**2-390625*x*ln(x))*ln(x*ln(3))), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**6 + 4*x**5 + 6*x**4 + 4*x**3 + x**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7784

2.4.780 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^2(2x + 2x^2) + e(52x + 4x^2) \log(x) + (50x + 2x^2) \log^2(x) + (e(96 + 48x) + e^2(2x + x^2) + e(4x + 2x^2))}{e^2(2x + x^2) + e(4x + 2x^2) \log(x) + (2x + x^2) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((((x**2+2*x)*ln(x)**2+(2*x**2+4*x)*exp(1)*ln(x)+(x**2+2*x)*exp(1)**2+(48*x+96)*exp(1))*ln(2+x)+(2*x**2+50*x)*ln(x)**2+(4*x**2+52*x)*exp(1)*ln(x)+(2*x**2+2*x)*exp(1)**2)/((x**2+2*x)*ln(x)**2+(2*x**2+4*x)*exp(1)*ln(x)+(x**2+2*x)*exp(1)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 7935

2.4.781 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^x(10x^3 - 10x^4 + e^3(-10x^2 + 10x^3)) + e^x(20e^3x^2 - 20x^3)}{9x^5 - 18x^6 + 9x^7 + e^3(-9x^4 + 18x^5 - 9x^6) + e^x(-5x^5 + 10x^6 - 5x^7 + e^3(5x^4 - 10x^5 + 5x^6)) + (-36}$$

= Exception raised: TypeError

```
[In] integrate(((((-10*exp(3)+10*x)*exp(x)+18*exp(3)-18*x)*ln(-x+exp(3))**2+((-40*x*exp(3)+40*x**2+20*x)*exp(x)+72*x*exp(3)-72*x**2-36*x)*ln(-x+exp(3))+((-30*x**2+20*x)*exp(3)+30*x**3)*exp(x)+(54*x**2-36*x)*exp(3)-54*x**3)*ln(5*exp(x)-9)+(10*x*exp(3)-10*x**2)*exp(x)*ln(-x+exp(3))**2+(20*x**2*exp(3)-20*x**3)*exp(x)*ln(-x+exp(3))+((10*x**3-10*x**2)*exp(3)-10*x**4+10*x**3)*exp(x))/(((5*x**2*exp(3)-5*x**3)*exp(x)-9*x**2*exp(3)+9*x**3)*ln(-x+exp(3))**4+((20*x**3*exp(3)-20*x**4)*exp(x)-36*x**3*exp(3)+36*x**4)*ln(-x+exp(3))**3+((30*x**4-10*x**3)*exp(3)-30*x**5+10*x**4)*exp(x)+(-54*x**4+18*x**3)*exp(3)+54*x**5-18*x**4)*ln(-x+exp(3))**2+(((20*x**5-20*x**4)*exp(3)-20*x**6+20*x**5)*exp(x)+(-36*x**5+36*x**4)*exp(3)+36*x**6-36*x**5)*ln(-x+exp(3))+((5*x**6-10*x**5+5*x**4)*exp(3)-5*x**7+10*x**6-5*x**5)*exp(x)+(-9*x**6+18*x**5-9*x**4)*exp(3)+9*x**7-18*x**6+9*x**5),x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8068

2.4.782 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-6x + 3 \log(4)) \log\left(\frac{x}{2}\right) + (-2x^2 + x \log(4)) \log^2\left(\frac{x}{2}\right) + (3x - 3 \log(4) + (-x^2 + x \log(4)) \log^2\left(\frac{x}{2}\right)) \log\left(\frac{x}{2}\right)}{(-x^2 + x \log(4)) \log^2\left(\frac{x}{2}\right)} dx$$

= Exception raised: TypeError

[In] integrate((((2*x*ln(2)-x**2)*ln(1/2*x)**2-6*ln(2)+3*x)*ln(2*x*ln(2)-x**2)+(2*x*ln(2)-2*x**2)*ln(1/2*x)**2+(6*ln(2)-6*x)*ln(1/2*x))/(2*x*ln(2)-x**2)/ln(1/2*x)**2,x)

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8168

2.4.783 Sympy [F(-2)]

Exception generated.

$$\int \frac{(1 + 9x) \log(x) + (-22 - 9x - \log(x)) \log\left(\frac{1}{2}(22 + 9x + \log(x))\right)}{(22x + 9x^2) \log^2(x) + x \log^3(x)} dx$$

= Exception raised: TypeError

[In] integrate((-ln(x)-9*x-22)*ln(1/2*ln(x)+9/2*x+11)+(9*x+1)*ln(x))/(x*ln(x)**3+(9*x**2+22*x)*ln(x)**2),x)

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8247

2.4.784 Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{1}{3} \left(9 - x \log \left(\frac{-5x^2 + \log(5) - x^2 \log(-4 + 2x + x^2)}{5x + x \log(-4 + 2x + x^2)} \right) \right)} \left(100x^2 - 50x^3 - 25x^4 + (20 - 12x - 7x^2) \log(5) + (40x^2 - 20x^3 - \dots \right)$$

= Exception raised: PolynomialError

```
[In] integrate((((-x**4-2*x**3+4*x**2)*ln(x**2+2*x-4)**2+((x**2+2*x-4)*ln(5)-10*x**4-20*x**3+40*x**2)*ln(x**2+2*x-4)+(5*x**2+10*x-20)*ln(5)-25*x**4-50*x**3+100*x**2)*ln((-x**2*ln(x**2+2*x-4)+ln(5)-5*x**2)/(x*ln(x**2+2*x-4)+5*x)))+(-x**4-2*x**3+4*x**2)*ln(x**2+2*x-4)**2+((-x**2-2*x+4)*ln(5)-10*x**4-20*x**3+40*x**2)*ln(x**2+2*x-4)+(-7*x**2-12*x+20)*ln(5)-25*x**4-50*x**3+100*x**2)*exp(-1/3*x*ln((-x**2*ln(x**2+2*x-4)+ln(5)-5*x**2)/(x*ln(x**2+2*x-4)+5*x))+3)/((3*x**4+6*x**3-12*x**2)*ln(x**2+2*x-4)**2+((-3*x**2-6*x+12)*ln(5)+30*x**4+60*x**3-120*x**2)*ln(x**2+2*x-4)+(-15*x**2-30*x+60)*ln(5)+75*x**4+150*x**3-300*x**2), x)
```

[Out] Exception raised: PolynomialError >> 1/(9*x**5 + 18*x**4 - 36*x**3) contain s an element of the set of generators.

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8263

2.4.785 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{9x}{6+e^3+\log\left(\frac{5}{3}\right)+3\log(x)}} + \frac{9x}{6+e^3+\log\left(\frac{5}{3}\right)+3\log(x)}}{36 + 12e^3 + e^6 - (-12 - 2e^3) \log\left(\frac{5}{3}\right) + \log^2\left(\frac{5}{3}\right) + (36 + 6e^3 + 6 \log\left(\frac{5}{3}\right)) \log(x) + 9 \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((27*ln(x)-9*ln(3/5)+9*exp(3)+27)*exp(9*x/(3*ln(x)-ln(3/5)+exp(3)+6))*exp(exp(9*x/(3*ln(x)-ln(3/5)+exp(3)+6)))/(9*ln(x)**2+(-6*ln(3/5)+6*exp(3)+36)*ln(x)+ln(3/5)**2+(-2*exp(3)-12)*ln(3/5)+exp(3)**2+12*exp(3)+36), x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8305

2.4.786 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-16x + 28x^2 - 8x^3) \log(x) + (8x - 4x^2 + (8x - 28x^2 + 12x^3) \log(x)) \log(e^{-2x}(-2x^2 + x^3)) + (-16x^2 - 8x^3) \log(x) \log(e^{-2x}(-2x^2 + x^3))}{(-2 + x) \log(x) \log(e^{-2x}(-2x^2 + x^3))} dx$$

= Exception raised: TypeError

```
[In] integrate(((8*x**2-16*x)*ln(x)*ln((x**3-2*x**2)/exp(x)**2)*ln(ln((x**3-2*x**2)/exp(x)**2)/x/ln(x))+((12*x**3-28*x**2+8*x)*ln(x)-4*x**2+8*x)*ln((x**3-2*x**2)/exp(x)**2)+(-8*x**3+28*x**2-16*x)*ln(x))/(-2+x)/ln(x)/ln((x**3-2*x**2)/exp(x)**2),x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8314

2.4.787 Sympy [F(-2)]

Exception generated.

$$\int \frac{(600 - 160x - 136x^2 - 16x^3) \log^2(2x) + e^{\frac{x}{(40+8x) \log(2x)}} (-5x - x^2 + 5x \log(2x) + (200 + 80x + 8x^2) \log^2(2x))}{(200 + 80x + 8x^2) \log^2(2x)} dx$$

= Exception raised: TypeError

```
[In] integrate((((8*x**2+80*x+200)*ln(2*x)**2+5*x*ln(2*x)-x**2-5*x)*exp(x/(8*x+40)/ln(2*x))+(-16*x**3-136*x**2-160*x+600)*ln(2*x)**2)/(8*x**2+80*x+200)/ln(2*x)**2,x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8325

2.4.788 Sympy [F(-2)]

Exception generated.

$$\int \frac{-100x^2 + 50x^3 + 25x^4 + e^{2+2x}(-4 + 2x + x^2) + e^{1+x}(40x - 20x^2 - 10x^3) + 3^x((-25x^2 - 50x^3 - 25x^4)}{125x^2 + 250x^3 + 125x^4 + e^{2+2x}(5 + 10x + 5x^2) + e^{1+x}(-5$$

= Exception raised: HeuristicGCDFailed

[In] integrate((((5*x**3+10*x**2+5*x)*ln(3)-5*x**3-5*x**2+5*x+5)*exp(1+x)+(-25*x**4-50*x**3-25*x**2)*ln(3))*exp(x*ln(3))+(x**2+2*x-4)*exp(1+x)**2+(-10*x**3-20*x**2+40*x)*exp(1+x)+25*x**4+50*x**3-100*x**2)/((5*x**2+10*x+5)*exp(1+x)**2+(-50*x**3-100*x**2-50*x)*exp(1+x)+125*x**4+250*x**3+125*x**2), x)

[Out] Exception raised: HeuristicGCDFailed >> no luck

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8381

2.4.789 Sympy [F(-2)]

Exception generated.

$$\int \frac{-720 + 540x + 3e^{4+x}x^3 + (180x - 6e^{4+x}x^2) \log\left(\frac{x}{\log(5)}\right) + 3e^{4+x}x \log^2\left(\frac{x}{\log(5)}\right) + (-720x - 180x^2 + 3e^{4+x}x^3 - 240x - 60x^2 + e^{4+x}x^2 + (240 + 60x -$$

= Exception raised: TypeError

[In] integrate(((3*exp(4+x)*ln(x/ln(5))**2+(-6*x*exp(4+x)+180*x+720)*ln(x/ln(5)))+3*x**2*exp(4+x)-180*x**2-720*x)*ln((-exp(4+x)*ln(x/ln(5))+x*exp(4+x)-60*x-240)/(ln(x/ln(5))-x))+3*x*exp(4+x)*ln(x/ln(5))**2+(-6*x**2*exp(4+x)+180*x)*

```
ln(x/ln(5))+3*x**3*exp(4+x)+540*x-720)/(exp(4+x)*ln(x/ln(5))**2+(-2*x*exp(4+x)+60*x+240)*ln(x/ln(5))+x**2*exp(4+x)-60*x**2-240*x),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8392

2.4.790 Sympy [F(-2)]

Exception generated.

$$\int \frac{1 + (5 - x) \log(5 - x) + e^3(-100 + 20x) \log^2(5 - x)}{(5 - x) \log(5 - x) + e^3(-100 + 20x) \log^2(5 - x)} dx$$

= Exception raised: PolynomialError

```
[In] integrate(((20*x-100)*exp(3)*ln(5-x)**2+(5-x)*ln(5-x)+1)/((20*x-100)*exp(3)*ln(5-x)**2+(5-x)*ln(5-x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x - 5) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8411

2.4.791 Sympy [F(-2)]

Exception generated.

$$\int \frac{75 + 90x + 3x^2 + (120x - 24x^2 + (75 - 30x + 3x^2) \log(\frac{x}{e})) \log\left(\frac{-8x + (-5+x) \log(\frac{x}{e})}{-5+x}\right) \log\left(-\log\left(\frac{-8x + (-5+x) \log(\frac{x}{e})}{-5+x}\right)\right)}{(40x - 8x^2 + (25 - 10x + x^2) \log(\frac{x}{e})) \log\left(\frac{-8x + (-5+x) \log(\frac{x}{e})}{-5+x}\right)}$$

= Exception raised: TypeError

```
[In] integrate((((3*x**2-30*x+75)*ln(x/exp(1))-24*x**2+120*x)*ln((-5+x)*ln(x/exp(1))-8*x)/(-5+x))*ln(-ln((-5+x)*ln(x/exp(1))-8*x)/(-5+x))+3*x**2+90*x+75
```



```
)/((x**2-10*x+25)*ln(x/exp(1))-8*x**2+40*x)/ln((-5+x)*ln(x/exp(1))-8*x)/(-5+x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8435

2.4.792 Sympy [F(-2)]

Exception generated.

$$\int \frac{4x - x^2 + e^x(-4x + x^2) + e^{e^x}(-x^2 + e^{2x}(-4x + x^2) + e^x(x + 4x^2 - x^3)) + (-2e^x + 2x) \log\left(\frac{x}{5}\right) + (e^x x - x^2)}{e^x x - x^2} dx$$

= Exception raised: TypeError

```
[In] integrate(((exp(x)*x-x**2)*ln(x-exp(x)))+(x**2-4*x)*exp(x)**2+(-x**3+4*x**2+x)*exp(x)-x**2)*exp(exp(x))+(-2*exp(x)+2*x)*ln(1/5*x)+(x**2-4*x)*exp(x)-x**2+4*x)/(exp(x)*x-x**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8519

2.4.793 Sympy [F(-2)]

Exception generated.

$$\int \frac{(80 - 40x - 2x^2 + x^3) \log(-2 + x) + e^{3e^x+x}(-60x^2 + 30x^3) \log(-2 + x) + (-40x - 10e^{3e^x} x^2 - x^3) \log(-2 + x)}{e^{3e^x}(-20x^2 + 10x^3) \log^2(-2 + x) + (-80x + 40x^2 - 2x^3 + x^4) \log^2(-2 + x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((10*x**2*exp(3*exp(x))-x**3-40*x)*ln((10*x*exp(3*exp(x))+x**2+40)/x)+(30*x**3-60*x**2)*exp(x)*ln(-2+x)*exp(3*exp(x))+(x**3-2*x**2-40*x+80)
```

```
*ln(-2+x))/((10*x**3-20*x**2)*ln(-2+x)**2*exp(3*exp(x))+(x**4-2*x**3+40*x**
2-80*x)*ln(-2+x)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8523

2.4.794 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{2x}(-3 - 6x) + 9x^2 + e^{-3+e^x}(-3 - 3e^x x - 3 \log(x))}{(-3e^{2x}x + 3x^3) \log(x) + (e^{2x}x^2 - x^4) \log^2(x) + e^{-3+e^x}(-3x \log(x) + x^2 \log^2(x)) + (-3e^{2x}x + 3x^3 + (2$$

= Exception raised: PolynomialError

```
[In] integrate((( -3*exp(exp(x)-3)-3*exp(x)**2+3*x**2)*ln(-exp(exp(x)-3)-exp(x)**
2+x**2)+(-3*ln(x)-3*exp(x)*x-3)*exp(exp(x)-3)+(-3*exp(x)**2+3*x**2)*ln(x)+
-6*x-3)*exp(x)**2+9*x**2)/((x**2*exp(exp(x)-3)+exp(x)**2*x**2-x**4)*ln(-exp
(exp(x)-3)-exp(x)**2+x**2)**2+(2*x**2*ln(x)-3*x)*exp(exp(x)-3)+(2*exp(x)**
2*x**2-2*x**4)*ln(x)-3*x*exp(x)**2+3*x**3)*ln(-exp(exp(x)-3)-exp(x)**2+x**2
)+(x**2*ln(x)**2-3*x*ln(x))*exp(exp(x)-3)+(exp(x)**2*x**2-x**4)*ln(x)**2+(-
3*x*exp(x)**2+3*x**3)*ln(x)),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(-_t1**2*x**2 - _t2*x**2 + x**4) con
tains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8581

2.4.795 Sympy [F(-2)]

Exception generated.

$$\int \frac{36x^3 + 12x^4 + (-36x^3 - 9x^4) \log(x) + (-18 - 9x - x^2) \log^2(5) \log^3(x) + (-18x^3 - 6x^4 + (18x^3 + 6x^4) \log^2(5) \log^3(x))}{(3x^2 + x^3) \log^2(5) \log^3(x)}$$

= Exception raised: TypeError

```
[In] integrate((((3*x+9)*ln(5)**2*ln(x)**3+(6*x**4+18*x**3)*ln(x)-6*x**4-18*x**3)
)*ln(3+x)+(-x**2-9*x-18)*ln(5)**2*ln(x)**3+(-9*x**4-36*x**3)*ln(x)+12*x**4+
36*x**3)/(x**3+3*x**2)/ln(5)**2/ln(x)**3,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 8610**2.4.796 Sympy [F(-2)]**

Exception generated.

$$\int \frac{(6x + 12x^2 + 4x^3) \log^2(3x) + e^{\frac{2(-x^2+x^3)}{\log(3x)}} (6x^2 + 2x^3 - 6x^4 - 2x^5 + (-12x^2 + 2x^3 + 20x^4 + 6x^5) \log(3x))}{\log^2(3x)}$$

= Exception raised: TypeError

```
[In] integrate((((3*x**2+8*x+3)*ln(3*x)**2+(6*x**5+20*x**4+2*x**3-12*x**2)*ln(3*
x)-2*x**5-6*x**4+2*x**3+6*x**2)*exp((x**3-x**2)/ln(3*x))**2+(4*x**3+12*x**2
+6*x)*ln(3*x)**2)/ln(3*x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txtTest file number 210Integral number in file 8617

2.4.797 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{x^4 \log(-3x+2x^5)}} (-45 + 150x^4 + (-180 + 120x^4) \log(-3x + 2x^5))}{(-3x^5 + 2x^9) \log^2(-3x + 2x^5)} dx$$

= Exception raised: TypeError

```
[In] integrate(((120*x**4-180)*ln(2*x**5-3*x)+150*x**4-45)/(2*x**9-3*x**5)/ln(2*x**5-3*x)**2/exp(5/x**4/ln(2*x**5-3*x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8620

2.4.798 Sympy [F(-2)]

Exception generated.

$$\int \frac{x \log(4) + \log^2(4) + e^x(-x^2 \log(4) - x \log^2(4)) + (-x \log(4) + \log^2(4) + e^x(x^3 \log(4) + x^2 \log^2(4))) \log(4)}{(x^3 + x^2 \log(4)) \log(4)} dx$$

= Exception raised: TypeError

```
[In] integrate((((4*ln(2)**2+2*x*ln(2))*ln(1/4*x)+4*ln(2)**2+2*x*ln(2))*ln(4*ln(2)**2+4*x*ln(2)+x**2)+((4*x**2*ln(2)**2+2*x**3*ln(2))*exp(x)+4*ln(2)**2-2*x*ln(2))*ln(1/4*x)+(-4*x*ln(2)**2-2*x**2*ln(2))*exp(x)+4*ln(2)**2+2*x*ln(2))/(2*x**2*ln(2)+x**3)/ln(1/4*x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8793

2.4.799 Sympy [F(-2)]

Exception generated.

$$\int \frac{-4 \log(5) \log^2\left(\frac{16}{x^2}\right) + e^{\frac{x}{\log\left(\frac{16}{x^2}\right)}} \left(8x - 8x^2 + (4x - 4x^2) \log\left(\frac{16}{x^2}\right) - 4 \log^2\left(\frac{16}{x^2}\right)\right)}{3x^2 \log^2\left(\frac{16}{x^2}\right)} dx$$

= Exception raised: TypeError

```
[In] integrate(1/3*((-4*ln(16/x**2)**2+(-4*x**2+4*x)*ln(16/x**2)-8*x**2+8*x)*exp
(x/ln(16/x**2))-4*ln(5)*ln(16/x**2)**2)/x**2/ln(16/x**2)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8800

2.4.800 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2}{x^2}x+x^2+\log\left(\frac{5}{3}\right)}}{x} \left(-4e^{\frac{2}{x^2}} + x^3 - x \log\left(\frac{5}{3}\right)\right) dx = \text{Exception raised: IndexError}$$

```
[In] integrate((-4*exp(2/x**2)+x*ln(3/5)+x**3)*exp((x*exp(2/x**2)-ln(3/5)+x**2)/
x)/x**3,x)
```

```
[Out] Exception raised: IndexError >> Index out of range: a[1]
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8858

2.4.801 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-400x^5 + (2000x^4 + 400x^5) \log(x)} (-5 + 4x + (-20 - 5x) \log(x))}{200x^7 + (-2000x^6 - 400x^7) \log(x) + (5000x^5 + 2000x^6 + 200x^7) \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((( -5*x-20)*ln(x)+4*x-5)/((200*x**7+2000*x**6+5000*x**5)*ln(x)**2+
(-400*x**7-2000*x**6)*ln(x)+200*x**7)/exp(-1/((400*x**5+2000*x**4)*ln(x)-40
0*x**5)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8869

2.4.802 Sympy [F(-2)]

Exception generated.

$$\int \frac{4e^5 x^2 \log^2(x) + e^{\frac{3}{e^5 x^2 \log(x)}} \log(2 + e^2) (6 + 12 \log(x) - 4e^5 x^2 \log^2(x)) + e^{\frac{6}{e^5 x^2 \log(x)}} \log^2(2 + e^2) (-3 - 6 \log(x))}{2e^5 x \log^2(2 + e^2) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate(1/2*((x**2*exp(5)*ln(x)**2-6*ln(x)-3)*ln(exp(2)+2)**2*exp(3/x**2/
exp(5)/ln(x))**2+(-4*x**2*exp(5)*ln(x)**2+12*ln(x)+6)*ln(exp(2)+2)*exp(3/x*
*2/exp(5)/ln(x))+4*x**2*exp(5)*ln(x)**2)/x/exp(5)/ln(x)**2/ln(exp(2)+2)**2,
x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8893

2.4.803 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{2+\log(-18-2x+\log(4)+3\log(25))}}(-36-2x+2\log(4)+6\log(25)+(-18-2x+\log(4)+3\log(25)))}{-72-8x+4\log(4)+12\log(25)+(-72-8x+4\log(4)+12\log(25))\log(-18-2x+\log(4)+3\log(25))} dx$$

= Exception raised: TypeError

```
[In] integrate(((6*ln(5)+2*ln(2)-2*x-18)*ln(6*ln(5)+2*ln(2)-2*x-18)+12*ln(5)+4*ln(2)-2*x-36)*exp(x/(ln(6*ln(5)+2*ln(2)-2*x-18)+2))/((6*ln(5)+2*ln(2)-2*x-18)*ln(6*ln(5)+2*ln(2)-2*x-18)**2+(24*ln(5)+8*ln(2)-8*x-72)*ln(6*ln(5)+2*ln(2)-2*x-18)+24*ln(5)+8*ln(2)-8*x-72), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 8900

2.4.804 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2x}{\log(x)}}(-2x^2+2x^2\log(x)+2x\log^2(x)+e^{-30+2x-2x\log(2x)}(-2+2\log(x)-2\log^2(x)\log(2x))+e^{-15+x})}{5\log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(1/5*((-2*ln(x)**2*ln(2*x)+2*ln(x)-2)*exp(-x*ln(2*x)+x-15)**2+(2*x*ln(x)**2*ln(2*x)-2*ln(x)**2-4*x*ln(x)+4*x)*exp(-x*ln(2*x)+x-15)+2*x*ln(x)**2+2*x**2*ln(x)-2*x**2)*exp(x/ln(x))**2/ln(x)**2, x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9001

2.4.805 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3+e^{10}(-x^2-x^3)}{-e^{10}x^2+e^{10}x^2 \log\left(\frac{x}{5\log(x)}\right)}} \left(3 + e^{10}(-x^2 - x^3) + (3 + e^{10}(x^2 + 2x^3)) \log(x) + (-6 - e^{10}x^3) \log(x) \log\left(\frac{x}{5\log(x)}\right)\right)}{e^{10}x^3 \log(x) - 2e^{10}x^3 \log(x) \log\left(\frac{x}{5\log(x)}\right) + e^{10}x^3 \log(x) \log^2\left(\frac{x}{5\log(x)}\right)}$$

= Exception raised: TypeError

```
[In] integrate((( -x**3*exp(5)**2-6)*ln(x)*ln(1/5*x/ln(x))+((2*x**3+x**2)*exp(5)*
*2+3)*ln(x)+(-x**3-x**2)*exp(5)**2+3)*exp((( -x**3-x**2)*exp(5)**2+3)/(x**2*
exp(5)**2*ln(1/5*x/ln(x))-x**2*exp(5)**2))/(x**3*exp(5)**2*ln(x)*ln(1/5*x/l
n(x))**2-2*x**3*exp(5)**2*ln(x)*ln(1/5*x/ln(x))+x**3*exp(5)**2*ln(x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9011

2.4.806 Sympy [F(-2)]

Exception generated.

$$\int \frac{30 + 30x + e^4(10 + 25x + 15x^2) + (3x + e^4(-15x - 15x^2)) \log(x) + e^4(15 + 15x) \log^2(x) + (-3 - 3x)}{e^4(15x + 15x^2) \log^2(x)}$$

= Exception raised: TypeError

```
[In] integrate((( -3*x-3)*ln(1+x)+(15*x+15)*exp(4)*ln(x)**2+((-15*x**2-15*x)*exp(
4)+3*x)*ln(x)+(15*x**2+25*x+10)*exp(4)+30*x+30)/(15*x**2+15*x)/exp(4)/ln(x)
**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9095

2.4.807 Sympy [F(-2)]

Exception generated.

$$\int \frac{2x \log(x) + (-x + (x + x^2 - x^3) \log(x)) \log(2x^2) + (-2 \log(x) + (-1 + x^2) \log(x) \log(2x^2)) \log(\log(x))}{-x^3 \log(5) \log(x) \log^2(2x^2) + x^2 \log(5) \log(x) \log^2(2x^2)}$$

= Exception raised: TypeError

```
[In] integrate((((-2*x*ln(x)*ln(ln(x))+2*x**2*ln(x))*ln(exp(x)/(ln(ln(x))-x))+((x**2-1)*ln(x)*ln(2*x**2)-2*ln(x))*ln(ln(x)))+((-x**3+x**2+x)*ln(x)-x)*ln(2*x**2)+2*x*ln(x))/(x**2*ln(5)*ln(x)*ln(2*x**2)**2*ln(ln(x))-x**3*ln(5)*ln(x)*ln(2*x**2)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9101

2.4.808 Sympy [F(-2)]

Exception generated.

$$\int \frac{-36x + 36x^2 + (3x - 3x^2) \log(x) + (33x - 108x^2 + (-3x + 9x^2) \log(x)) \log(2x) + (-36x + 3x \log(x))}{(-12 + \log(x)) \log^2(2x)}$$

= Exception raised: TypeError

```
[In] integrate(((((-6*x*ln(x)+72*x)*ln(2*x)+3*x*ln(x)-36*x)*ln(1/8*(ln(x)-12)/x)+((9*x**2-3*x)*ln(x)-108*x**2+33*x)*ln(2*x)+(-3*x**2+3*x)*ln(x)+36*x**2-36*x)/(ln(x)-12)/ln(2*x)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9111

2.4.809 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^x x^3 + (324 + 324x + e^{4x}(324 + 324x)) \log(1 + e^{4x}) + 2e^x x^2 \log(x) + e^x x \log^2(x) + e^{4x}(-1296e^{4x} x^3 + 2x^2 \log(x) + x \log^2(x) + e^{4x}(x^3 + 2x^2 \log(x) + x \log^2(x)))}{x^3 + 2x^2 \log(x) + x \log^2(x) + e^{4x}(x^3 + 2x^2 \log(x) + x \log^2(x))} dx$$

= Exception raised: TypeError

```
[In] integrate((((324*x+324)*exp(exp(4*x))+324*x+324)*ln(exp(exp(4*x))+1)+(x*exp(x)*ln(x)**2+(-1296*x*exp(4*x)+2*exp(x)*x**2)*ln(x)-1296*x**2*exp(4*x)+exp(x)*x**3)*exp(exp(4*x))+x*exp(x)*ln(x)**2+2*x**2*exp(x)*ln(x)+exp(x)*x**3)/((x*ln(x)**2+2*x**2*ln(x)+x**3)*exp(exp(4*x))+x*ln(x)**2+2*x**2*ln(x)+x**3), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9277

2.4.810 Sympy [F(-2)]

Exception generated.

$$\int \frac{(8 + 2x - 2x^2 + e(16x + 4x^2 - 4x^3)) \log(x) + (-4 + 8x + e(-4x + 8x^2)) \log^2(x) \log\left(\frac{x+ex^2}{e}\right) + (-8 - (1+ex) \log(x)) \log^2(x)}{(1+ex) \log(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((((-6*x**3+4*x**2+8*x)*exp(1)-6*x**2+4*x+8)*ln(x)+(2*x**3-2*x**2-8*x)*exp(1)+2*x**2-2*x-8)*ln((x**2*exp(1)+x)/exp(1))*ln(ln((x**2*exp(1)+x)/exp(1)))+((8*x**2-4*x)*exp(1)+8*x-4)*ln(x)**2*ln((x**2*exp(1)+x)/exp(1))+((-4*x**3+4*x**2+16*x)*exp(1)-2*x**2+2*x+8)*ln(x))/(x*exp(1)+1)/ln(x)**2/ln((x**2*exp(1)+x)/exp(1)), x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9310

2.4.811 Sympy [F(-2)]

Exception generated.

$$\int \frac{16e^4 + e^{4+2x}x^2 + e^{4+x}(-4 + 4x)}{-32 + 16x + e^x(-20x + 8x^2) + e^{2x}(-3x^2 + x^3)} dx$$

= Exception raised: PolynomialError

```
[In] integrate((x**2*exp(4)*exp(x)**2+(-4+4*x)*exp(4)*exp(x)+16*exp(4))/((x**3-3*x**2)*exp(x)**2+(8*x**2-20*x)*exp(x)+16*x-32),x)
```

```
[Out] Exception raised: PolynomialError >> 1/(x**4 - 6*x**3 + 9*x**2) contains an element of the set of generators.
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9366

2.4.812 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{9+123x+30x^2}{10 \log\left(\frac{2+x^2}{x}\right)}} \left(18 + 246x + 51x^2 - 123x^3 - 30x^4 + (246x + 120x^2 + 123x^3 + 60x^4) \log\left(\frac{2+x^2}{x}\right) + (20 + 10x^2) \log^2\left(\frac{2+x^2}{x}\right)\right)}{(20 + 10x^2) \log^2\left(\frac{2+x^2}{x}\right)} dx$$

= Exception raised: TypeError

```
[In] integrate(((10*x**2+20)*ln((x**2+2)/x)**2+(60*x**4+123*x**3+120*x**2+246*x)*ln((x**2+2)/x)-30*x**4-123*x**3+51*x**2+246*x+18)*exp(1/10*(30*x**2+123*x+9)/ln((x**2+2)/x))/(10*x**2+20)/ln((x**2+2)/x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9541

2.4.813 Sympy [F(-2)]

Exception generated.

$$\int \frac{-72x + 144x^2 - 108x^3 + 10x^4 + 15x^5 + (-48x^2 - 72x^3) \log(x) + (-12x^2 + 12x^3 - 36x^4) \log^2(x) + (-72x^2 - 108x^3 + 144x^4) \log^3(x)}{-72x^2 - 108x^3 + 144x^4} dx$$

= Exception raised: PolynomialError

```
[In] integrate((((3*x**2+2*x)*ln(x)**4+(12*x+8)*ln(x)**3-15*x**2-10*x)*ln(2+3*x)
**3+((-9*x**3-6*x**2)*ln(x)**4+(-36*x**2-24*x)*ln(x)**3+(-36*x**2-24*x)*ln(
x)**2+(-72*x-48)*ln(x)+45*x**3+30*x**2)*ln(2+3*x)**2+((9*x**4+6*x**3)*ln(x)
**4+(36*x**3+24*x**2)*ln(x)**3+(72*x**3+12*x**2+12*x)*ln(x)**2+(144*x**2+96
*x)*ln(x)-45*x**4-30*x**3+108*x**2+72*x)*ln(2+3*x)+(-3*x**5-2*x**4)*ln(x)**
4+(-12*x**4-8*x**3)*ln(x)**3+(-36*x**4+12*x**3-12*x**2)*ln(x)**2+(-72*x**3-
48*x**2)*ln(x)+15*x**5+10*x**4-108*x**3+144*x**2-72*x)/(((3*x**2+2*x)*ln(x)
**4-15*x**2-10*x)*ln(2+3*x)**3+((-9*x**3-6*x**2)*ln(x)**4+(-36*x**2-24*x)*l
n(x)**2+45*x**3+30*x**2)*ln(2+3*x)**2+((9*x**4+6*x**3)*ln(x)**4+(72*x**3+48
*x**2)*ln(x)**2-45*x**4-30*x**3+108*x**2+72*x)*ln(2+3*x)+(-3*x**5-2*x**4)*l
n(x)**4+(-36*x**4-24*x**3)*ln(x)**2+15*x**5+10*x**4-108*x**3-72*x**2), x)
```

```
[Out] Exception raised: PolynomialError >> 1/(9*_t0**16*x**4 + 12*_t0**16*x**3 +
4*_t0**16*x**2 - 180*_t0**12*x**4 - 240*_t0**12*x**3 - 80*_t0**12*x**2 + 13
50*_t0**8*x**4 + 1800*_t0**8*x**3 + 600*_t0**8*x**2 - 4500*_t0**4*x**4 - 60
00*_t0**4*x*
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9659

2.4.814 Sympy [F(-2)]

Exception generated.

$$\int \frac{-50x - 20e^4x - 2e^8x + (-20x - 4e^4x) \log(x) - 2x \log^2(x) + e^{\frac{x^3+x^2 \log(4)}{5+e^4+\log(x)}} (25 + e^8 + 14x^3 + e^4(10 + 3x^3))}{25 + 10e^4 + e^8 + (10 + 2e^4) \log(x) + 2e^8 \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((ln(x)**2+(4*x**2*ln(2)+2*exp(4)+3*x**3+10)*ln(x)+2*(2*x**2*exp(
4)+9*x**2)*ln(2)+exp(4)**2+(3*x**3+10)*exp(4)+14*x**3+25)*exp((2*x**2*ln(2)
```

```
+x**3)/(ln(x)+5+exp(4))-2*x*ln(x)**2+(-4*x*exp(4)-20*x)*ln(x)-2*x*exp(4)**
2-20*x*exp(4)-50*x)/(ln(x)**2+(2*exp(4)+10)*ln(x)+exp(4)**2+10*exp(4)+25),x
)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9749

2.4.815 Sympy [F(-2)]

Exception generated.

$$\int \frac{(e^{10} - e^5 x) \log^2(e^{10} - 2e^5 x + x^2) + e^{\frac{4x^3}{e^5 \log(e^{10} - 2e^5 x + x^2)}} (8x^3 + (12e^5 x^2 - 12x^3) \log(e^{10} - 2e^5 x + x^2))}{(e^{10} - e^5 x) \log^2(e^{10} - 2e^5 x + x^2)} dx$$

= Exception raised: TypeError

```
[In] integrate((((12*x**2*exp(5)-12*x**3)*ln(exp(5)**2-2*x*exp(5)+x**2)+8*x**3)*
exp(4*x**3/exp(5)/ln(exp(5)**2-2*x*exp(5)+x**2))+(exp(5)**2-x*exp(5))*ln(ex
p(5)**2-2*x*exp(5)+x**2)**2)/(exp(5)**2-x*exp(5))/ln(exp(5)**2-2*x*exp(5)+x
**2)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9775

2.4.816 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3x^2+5x^3+2x^4}{(4+8x)\log(x^2)}} (-6x^2 - 22x^3 - 24x^4 - 8x^5 + (6x^2 + 21x^3 + 28x^4 + 12x^5) \log(x^2) + (-8 - 32x - 32x^2) \log(x^2))}{(4x^3 + 16x^4 + 16x^5) \log^2(x^2)} dx$$

= Exception raised: TypeError

```
[In] integrate((( -32*x**2-32*x-8)*ln(x**2)**2+(12*x**5+28*x**4+21*x**3+6*x**2)*ln(x**2)-8*x**5-24*x**4-22*x**3-6*x**2)*exp((2*x**4+5*x**3+3*x**2)/(8*x+4)/ln(x**2)))/(16*x**5+16*x**4+4*x**3)/ln(x**2)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 9947

2.4.817 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{9e^{\frac{2(-4x-x^2)}{6-3x+3\log(x)} + \frac{2(-4x-x^2)}{6-3x+3\log(x)}}} (-24 - 18x + 6x^2 + (-24 - 12x) \log(x))}{4 - 4x + x^2 + (4 - 2x) \log(x) + \log^2(x)} dx$$

= Exception raised: TypeError

```
[In] integrate((( -12*x-24)*ln(x)+6*x**2-18*x-24)*exp((-x**2-4*x)/(3*ln(x)-3*x+6))**2*exp(9*exp((-x**2-4*x)/(3*ln(x)-3*x+6))**2)/(ln(x)**2+(4-2*x)*ln(x)+x**2-4*x+4),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 10034

2.4.818 Sympy [F(-2)]

Exception generated.

$$\int \frac{7x^2 + (12 + 4x) \log^3(5x) \log(3 + x) + \log^4(5x)(-x + (-3 - x) \log(3 + x))}{147x^2 + 49x^3 + (-42x - 14x^2) \log^4(5x) + (3 + x) \log^8(5x)} dx$$

= Exception raised: TypeError

```
[In] integrate(((( -3-x)*ln(3+x)-x)*ln(5*x)**4+(4*x+12)*ln(3+x)*ln(5*x)**3+7*x**2)/((3+x)*ln(5*x)**8+(-14*x**2-42*x)*ln(5*x)**4+49*x**3+147*x**2),x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 10123

2.4.819 Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{-5x+e^5x+(-5+e^5)\log(x)+\log\left(\frac{x}{\log(x)}\right)}{x+\log(x)}}}{e^{-\frac{-5x+e^5x+(-5+e^5)\log(x)+\log\left(\frac{x}{\log(x)}\right)}{x+\log(x)}} (x^2 \log(x) + 2x \log^2(x) + \log^3(x)) + e^{-\frac{-5x+e^5x+(-5+e^5)\log(x)+\log\left(\frac{x}{\log(x)}\right)}{x+\log(x)}}}$$

= Exception raised: TypeError

```
[In] integrate((((1+x)*ln(x)*ln(x/ln(x))+ln(x)**3+(-1+2*x)*ln(x)**2+(x**2-x+1)*ln(x)+x)*exp((-2*exp((ln(x/ln(x)))+(exp(5)-5)*ln(x)+x*exp(5)-5*x)/(x+ln(x)))+x)/exp((ln(x/ln(x)))+(exp(5)-5)*ln(x)+x*exp(5)-5*x)/(x+ln(x)))+(ln(x)**3+2*x*ln(x)**2+x**2*ln(x))*exp((ln(x/ln(x)))+(exp(5)-5)*ln(x)+x*exp(5)-5*x)/(x+ln(x))))/(ln(x)**3+2*x*ln(x)**2+x**2*ln(x))/exp((ln(x/ln(x)))+(exp(5)-5)*ln(x)+x*exp(5)-5*x)/(x+ln(x))),x)
```

[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 10148

2.4.820 Sympy [F(-2)]

Exception generated.

$$\int \frac{128 - 32x + 64x^2 - 16x^3 + 8x^4 - 2x^5 + (40 - 530x + 280x^2 - 545x^3 + 258x^4 - 128x^5 + 48x^6 - 6x^7)}{1} dx$$

= Exception raised: TypeError

```
[In] integrate((((ln(x)**3+(5*x**4+24*x**2+20)*ln(x)**2+(-4*x**5+19*x**4-16*x**3+
88*x**2-x+52)*ln(x))*ln(ln(x)**2)-2*x*ln(x)**4+(-6*x**5-32*x**3+4*x**2-49*x
)*ln(x)**3+(12*x**6-48*x**5+64*x**4-258*x**3+82*x**2-296*x+2)*ln(x)**2+(-6*
x**7+48*x**6-128*x**5+258*x**4-545*x**3+280*x**2-530*x+40)*ln(x)-2*x**5+8*x
**4-16*x**3+64*x**2-32*x+128)/(ln(x)**3+(-2*x+8)*ln(x)**2+(x**2-8*x+16)*ln(
x)),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 10161

2.4.821 Sympy [F(-2)]

Exception generated.

$$\int \frac{-507x^2 + 481x^3 - 152x^4 + 16x^5 + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4) + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4) + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4)}{-507x^2 + 481x^3 - 152x^4 + 16x^5 + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4) + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4) + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4)}$$

= Exception raised: TypeError

```
[In] integrate(((((-3*x+9)*ln(x**4-12*x**3+54*x**2-108*x+81)+8*x**2-49*x+39)*exp(
1/(3*x*ln(x**4-12*x**3+54*x**2-108*x+81)-4*x**2+13*x))+9*x**3-27*x**2)*ln(
x**4-12*x**3+54*x**2-108*x+81)**2+(-24*x**4+150*x**3-234*x**2)*ln(x**4-12*x
**3+54*x**2-108*x+81)+16*x**5-152*x**4+481*x**3-507*x**2)/((9*x**3-27*x**2)
*ln(x**4-12*x**3+54*x**2-108*x+81)**2+(-24*x**4+150*x**3-234*x**2)*ln(x**4-
12*x**3+54*x**2-108*x+81)+16*x**5-152*x**4+481*x**3-507*x**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly
' and 'int'
```


input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 10263

2.4.822 Sympy [F(-2)]

Exception generated.

$$\int \frac{(-208x - 60x^2 + 108x^3 - 36x^4 + 4x^5) \log(2x) + (-60 + 164x - 57x^2 - 15x^3 + 9x^4 - x^5) \log\left(\frac{400-1920x}{(60x - 164x^2 + 57x^3 + 15x^4 - 9x^5 + x^6) \log^2(2x)}\right)}{(60x - 164x^2 + 57x^3 + 15x^4 - 9x^5 + x^6) \log^2(2x)}$$

= Exception raised: TypeError

```
[In] integrate(((x**5+9*x**4-15*x**3-57*x**2+164*x-60)*ln((x**8-12*x**7+30*x**6+132*x**5-607*x**4-48*x**3+2424*x**2-1920*x+400)/(x**4-12*x**3+54*x**2-108*x+81))+(4*x**5-36*x**4+108*x**3-60*x**2-208*x)*ln(2*x))/(x**6-9*x**5+15*x**4+57*x**3-164*x**2+60*x)/ln(2*x)**2,x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 10318

2.4.823 Sympy [F(-2)]

Exception generated.

$$\int \frac{5 - 5e^x + 5x - 5x^2 + (5 + 4x^2 + x^3 + e^x(-5 + 6x)) \log(x) + (-x^3 + e^x(x - x^2)) \log^2(x) + (5 + (5 - x - 5x^2) \log(x) + x^3 \log^3(x))}{-5x^2 \log^2(x) + x^3 \log^3(x)}$$

= Exception raised: TypeError

```
[In] integrate(((x*ln(x)**2+ln(x)*(5-x)+5)*ln(1/2*x*ln(x)-5/2)+((-x**2+x)*exp(x)-x**3)*ln(x)**2+((6*x-5)*exp(x)+x**3+4*x**2+5)*ln(x)-5*exp(x)-5*x**2+5*x+5)/(x**3*ln(x)**3-5*x**2*ln(x)**2),x)
```

```
[Out] Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name 10_Hebisch/Hebisch_Problems.txt

Test file number 210

Integral number in file 10323

LINKS TO INDIVIDUAL TEST REPORTS

These are links to each test report. The number in square brackets to right of the link is the number of integrals in the test. The list of numbers in the curly brackets after that (if any) is the list of the integrals in that specific test which were solved by any CAS which are known not to have antiderivative. This makes it easier to find these integrals and do more investigation into them.

3.1 Tests completed

1. [0_Independent_test_suites/1_Apostol_Problems](#) [175]
2. [0_Independent_test_suites/2_Bondarenko_Problems](#) [35]
3. [0_Independent_test_suites/3_Bronstein_Problems](#) [14]
4. [0_Independent_test_suites/4_Charlwood_Problems](#) [50]
5. [0_Independent_test_suites/5_Hearn_Problems](#) [284] { **Maxima: 145.** }
6. [0_Independent_test_suites/6_Hebisch_Problems](#) [7]
7. [0_Independent_test_suites/7_Jeffrey_Problems](#) [9]
8. [0_Independent_test_suites/8_Moses_Problems](#) [113]
9. [0_Independent_test_suites/9_Stewart_Problems](#) [376]
10. [0_Independent_test_suites/10_Timofeev_Problems](#) [705]
11. [0_Independent_test_suites/11_Welz_Problems](#) [116]
12. [0_Independent_test_suites/12_Wester_Problems](#) [8]

13. 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/13_1.1.1.
2-a+b_x^{-m}-c+d_x⁻ⁿ [1917]
14. 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/14_1.1.1.
3-a+b_x^{-m}-c+d_x⁻ⁿ-e+f_x^{-p} [3201]
15. 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/15_1.1.1.
4-a+b_x^{-m}-c+d_x⁻ⁿ-e+f_x^{-p}-g+h_x^{-q} [159]
16. 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/16_1.1.1.
5_P-x-a+b_x^{-m}-c+d_x⁻ⁿ [34]
17. 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/17_1.1.1.
6_P-x-a+b_x^{-m}-c+d_x⁻ⁿ-e+f_x^{-p} [78]
18. 1_Algebraic_functions/1.1_Binomial_products/1.1.1_Linear/18_1.1.1.
7_P-x-a+b_x^{-m}-c+d_x⁻ⁿ-e+f_x^{-p}-g+h_x^{-q} [35]
19. 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/19_1.1.
.2.2-c_x^{-m}-a+b_x^{2-p} [1071]
20. 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/20_1.1.
.2.3-a+b_x^{2-p}-c+d_x^{2-q} [349]
21. 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/21_1.1.
.2.4-e_x^{-m}-a+b_x^{2-p}-c+d_x^{2-q} [1156]
22. 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/22_1.1.
.2.5-a+b_x^{2-p}-c+d_x^{2-q}-e+f_x^{2-r} [115]
23. 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/23_1.1.
.2.6-g_x^{-m}-a+b_x^{2-p}-c+d_x^{2-q}-e+f_x^{2-r} [51]
24. 1_Algebraic_functions/1.1_Binomial_products/1.1.2_Quadratic/24_1.1.
.2.8_P-x-c_x^{-m}-a+b_x^{2-p} [174]
25. 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/25_1.1.3.
.2-c_x^{-m}-a+b_x^{n-p} [3078]
26. 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/26_1.1.3.
.3-a+b_x^{n-p}-c+d_x^{n-q} [385]
27. 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/27_1.1.3.
.4-e_x^{-m}-a+b_x^{n-p}-c+d_x^{n-q} [1081]
28. 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/28_1.1.3.
.6-g_x^{-m}-a+b_x^{n-p}-c+d_x^{n-q}-e+f_x^{n-r} [46]

29. 1_Algebraic_functions/1.1_Binomial_products/1.1.3_General/29_1.1.3
 .8_P-x-c_x^{-m}-a+b_x^{n-p} [594]
30. 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/30_1.1.
 4.2-c_x^{-m}-a_x^j+b_x^{n-p} [454]
31. 1_Algebraic_functions/1.1_Binomial_products/1.1.4_Improper/31_1.1.
 4.3-e_x^{-m}-a_x^j+b_x^{k-p}-c+d_x^{n-q} [298]
32. 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/32_1.
 2.1.1-a+b_x+c_x^{2-p} [143]
33. 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/33_1.
 2.1.2-d+e_x^{-m}-a+b_x+c_x^{2-p} [2590]
34. 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/34_1.
 2.1.3-d+e_x^{-m}-f+g_x-a+b_x+c_x^{2-p} [2646]
35. 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/35_1.
 2.1.4-d+e_x^{-m}-f+g_x^{-n}-a+b_x+c_x^{2-p} [958]
36. 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/36_1.
 2.1.5-a+b_x+c_x^{2-p}-d+e_x+f_x^{2-q} [123]
37. 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/37_1.
 2.1.6-g+h_x^{-m}-a+b_x+c_x^{2-p}-d+e_x+f_x^{2-q} [143]
38. 1_Algebraic_functions/1.2_Trinomial_products/1.2.1_Quadratic/38_1.
 2.1.9_P-x-d+e_x^{-m}-a+b_x+c_x^{2-p} [400]
39. 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/39_1.2.
 2.2-d_x^{-m}-a+b_x^2+c_x^{4-p} [1126]
40. 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/40_1.2.
 2.3-d+e_x^{2-m}-a+b_x^2+c_x^{4-p} [413]
41. 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/41_1.2.
 2.4-f_x^{-m}-d+e_x^{2-q}-a+b_x^2+c_x^{4-p} [413]
42. 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/42_1.2.
 2.5_P-x-a+b_x^2+c_x^{4-p} [111]
43. 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/43_1.2.
 2.6_P-x-d_x^{-m}-a+b_x^2+c_x^{4-p} [145]
44. 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/44_1.2.
 2.7_P-x-d+e_x^{2-q}-a+b_x^2+c_x^{4-p} [42]

45. 1_Algebraic_functions/1.2_Trinomial_products/1.2.2_Quartic/45_1.2.2.8_P-x-d+e_x^{-q}-a+b_x^2+c_x^{4-p} [4]
46. 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/46_1.2.3.2-d_x^{-m}-a+b_x^n+c_x^2_n^{-p} [664]
47. 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/47_1.2.3.3-d+e_x^n-q-a+b_x^n+c_x^2_n^{-p} [96]
48. 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/48_1.2.3.4-f_x^{-m}-d+e_x^n-q-a+b_x^n+c_x^2_n^{-p} [156]
49. 1_Algebraic_functions/1.2_Trinomial_products/1.2.3_General/49_1.2.3.5_P-x-d_x^{-m}-a+b_x^n+c_x^2_n^{-p} [17]
50. 1_Algebraic_functions/1.2_Trinomial_products/1.2.4_Improper/50_1.2.4.2-d_x^{-m}-a_x^q+b_x^n+c_x^2_n-q^{-p} [140]
51. 1_Algebraic_functions/1.3_Miscellaneous/51_1.3.1_Rational_functions [494]
52. 1_Algebraic_functions/1.3_Miscellaneous/52_1.3.2_Algebraic_functions [1025]
53. 2_Exponentials/53_2.1_u-F^{-c}-a+b_x^{-n} [98]
54. 2_Exponentials/54_2.2-c+d_x^{-m}-F^{-g}-e+f_x^{-n}-a+b-F^{-g}-e+f_x^{-n-p} [93]
55. 2_Exponentials/55_2.3_Exponential_functions [770]
56. 3_Logarithms/56_3.1.2-d_x^{-m}-a+b_log-c_x^n-p [193]
57. 3_Logarithms/57_3.1.4-f_x^{-m}-d+e_x^r-q-a+b_log-c_x^n-p [456] { **Mathematica:** 166, 167, 168, 170, 322, 323, 406, 407, 409, 410, 411, 412, 413, 414, 416, 417, 418, 419, 444, 445. }
58. 3_Logarithms/58_3.1.5_u-a+b_log-c_x^n-p [249] { **Mathematica:** 138, 144, 145, 146, 148, 149, 220. **Maple:** 221. }
59. 3_Logarithms/59_3.2.1-f+g_x^{-m}-A+B_log-e-a+b_x-over-c+d_x^{-n-p} [314]
60. 3_Logarithms/60_3.2.2-f+g_x^{-m}-h+i_x^{-q}-A+B_log-e-a+b_x-over-c+d_x^{-n-p} [263]
61. 3_Logarithms/61_3.2.3_u_log-e-f-a+b_x^{-p}-c+d_x^{-q-r-s} [108]
62. 3_Logarithms/62_3.3_u-a+b_log-c-d+e_x^{-n-p} [547]

63. 3_Logarithms/63_3.4_u-a+b_log-c-d+e_x^{m-n-p} [641] { **Mathematica:** 98, 99, 100, 101, 158, 159, 277, 298, 299, 485, 486, 487, 488, 528, 530, 531. }
64. 3_Logarithms/64_3.5_Logarithm_functions [314]
65. 4_Trig_functions/4.1_Sine/65_4.1.0-a_sin^{-m}-b_trg⁻ⁿ [538]
66. 4_Trig_functions/4.1_Sine/66_4.1.10-c+d_x^{-m}-a+b_sin⁻ⁿ [348]
67. 4_Trig_functions/4.1_Sine/67_4.1.1.1-a+b_sin⁻ⁿ [72]
68. 4_Trig_functions/4.1_Sine/68_4.1.11-e_x^{-m}-a+b_x^{n-p}_sin [113]
69. 4_Trig_functions/4.1_Sine/69_4.1.12-e_x^{-m}-a+b_sin-c+d_x^{n-p} [357]
70. 4_Trig_functions/4.1_Sine/70_4.1.1.2-g_cos^{-p}-a+b_sin^{-m} [653]
71. 4_Trig_functions/4.1_Sine/71_4.1.13-d+e_x^{-m}_sin-a+b_x+c_x²⁻ⁿ [36]
72. 4_Trig_functions/4.1_Sine/72_4.1.1.3-g_tan^{-p}-a+b_sin^{-m} [208]
73. 4_Trig_functions/4.1_Sine/73_4.1.2.1-a+b_sin^{-m}-c+d_sin⁻ⁿ [837]
74. 4_Trig_functions/4.1_Sine/74_4.1.2.2-g_cos^{-p}-a+b_sin^{-m}-c+d_sin⁻ⁿ [1563]
75. 4_Trig_functions/4.1_Sine/75_4.1.2.3-g_sin^{-p}-a+b_sin^{-m}-c+d_sin⁻ⁿ [51]
76. 4_Trig_functions/4.1_Sine/76_4.1.3.1-a+b_sin^{-m}-c+d_sin⁻ⁿ-A+B_sin [358]
77. 4_Trig_functions/4.1_Sine/77_4.1.4.1-a+b_sin^{-m}-A+B_sin+C_sin²- [19]
78. 4_Trig_functions/4.1_Sine/78_4.1.4.2-a+b_sin^{-m}-c+d_sin⁻ⁿ-A+B_sin+C_sin²- [34]
79. 4_Trig_functions/4.1_Sine/79_4.1.7-d_trig^{-m}-a+b-c_sin^{-n-p} [594] { **Mathematica:** 399, 400, 401, 402, 403. **Fricas:** 399, 400, 401, 402, 403. **Mupad:** 399, 400, 401, 402, 403. }
80. 4_Trig_functions/4.1_Sine/80_4.1.8-a+b_sin^{-m}-c+d_trig⁻ⁿ [9]
81. 4_Trig_functions/4.1_Sine/81_4.1.9_trig^m-a+b_sinⁿ+c_sin²_n^{-p} [19]
82. 4_Trig_functions/4.2_Cosine/82_4.2.0-a_cos^{-m}-b_trg⁻ⁿ [294]
83. 4_Trig_functions/4.2_Cosine/83_4.2.10-c+d_x^{-m}-a+b_cos⁻ⁿ [189]

84. 4_Trig_functions/4.2_Cosine/84_4.2.1.1-a+b_cos⁻ⁿ [62]
85. 4_Trig_functions/4.2_Cosine/85_4.2.12-e_x^{-m}-a+b_cos-c+d_x^{n-p} [99]
86. 4_Trig_functions/4.2_Cosine/86_4.2.1.2-g_sin^{-p}-a+b_cos^{-m} [88]
87. 4_Trig_functions/4.2_Cosine/87_4.2.13-d+e_x^{-m}_cos-a+b_x+c_x²⁻ⁿ
[34]
88. 4_Trig_functions/4.2_Cosine/88_4.2.1.3-g_tan^{-p}-a+b_cos^{-m} [22]
89. 4_Trig_functions/4.2_Cosine/89_4.2.2.1-a+b_cos^{-m}-c+d_cos⁻ⁿ [932]
90. 4_Trig_functions/4.2_Cosine/90_4.2.2.2-g_sin^{-p}-a+b_cos^{-m}-c+d_cos⁻ⁿ
[4]
91. 4_Trig_functions/4.2_Cosine/91_4.2.2.3-g_cos^{-p}-a+b_cos^{-m}-c+d_cos⁻ⁿ
[1]
92. 4_Trig_functions/4.2_Cosine/92_4.2.3.1-a+b_cos^{-m}-c+d_cos⁻ⁿ-A+B_cos
- [644]
93. 4_Trig_functions/4.2_Cosine/93_4.2.4.1-a+b_cos^{-m}-A+B_cos+C_cos²-
[393]
94. 4_Trig_functions/4.2_Cosine/94_4.2.4.2-a+b_cos^{-m}-c+d_cos⁻ⁿ-A+B_cos
+C_cos²- [1541]
95. 4_Trig_functions/4.2_Cosine/95_4.2.7-d_trig^{-m}-a+b-c_cos^{-n-p} [98]
96. 4_Trig_functions/4.2_Cosine/96_4.2.8-a+b_cos^{-m}-c+d_trig⁻ⁿ [21]
97. 4_Trig_functions/4.2_Cosine/97_4.2.9_trig^m-a+b_cosⁿ+c_cos²_n^{-p}
[20]
98. 4_Trig_functions/4.3_Tangent/98_4.3.0-a_trg^{-m}-b_tan⁻ⁿ [387]
99. 4_Trig_functions/4.3_Tangent/99_4.3.10-c+d_x^{-m}-a+b_tan⁻ⁿ [63]
100. 4_Trig_functions/4.3_Tangent/100_4.3.11-e_x^{-m}-a+b_tan-c+d_x^{n-p}
[66]
101. 4_Trig_functions/4.3_Tangent/101_4.3.1.2-d_sec^{-m}-a+b_tan⁻ⁿ [700]
102. 4_Trig_functions/4.3_Tangent/102_4.3.1.3-d_sin^{-m}-a+b_tan⁻ⁿ [91]
103. 4_Trig_functions/4.3_Tangent/103_4.3.2.1-a+b_tan^{-m}-c+d_tan⁻ⁿ
[1328]
104. 4_Trig_functions/4.3_Tangent/104_4.3.3.1-a+b_tan^{-m}-c+d_tan⁻ⁿ-A+B_t
an- [855]

105. 4_Trig_functions/4.3_Tangent/105_4.3.4.2-a+b_tan^{-m}-c+d_tan⁻ⁿ-A+B_tan+C_tan²- [171]
106. 4_Trig_functions/4.3_Tangent/106_4.3.7-d_trig^{-m}-a+b-c_tan⁻ⁿ-P [499]
107. 4_Trig_functions/4.3_Tangent/107_4.3.9_trig^m-a+b_tanⁿ+c_tan²_n-P [51]
108. 4_Trig_functions/4.4_Cotangent/108_4.4.0-a_trg^{-m}-b_cot⁻ⁿ [52]
109. 4_Trig_functions/4.4_Cotangent/109_4.4.10-c+d_x^{-m}-a+b_cot⁻ⁿ [61]
110. 4_Trig_functions/4.4_Cotangent/110_4.4.1.2-d_csc^{-m}-a+b_cot⁻ⁿ [23]
111. 4_Trig_functions/4.4_Cotangent/111_4.4.1.3-d_cos^{-m}-a+b_cot⁻ⁿ [19]
112. 4_Trig_functions/4.4_Cotangent/112_4.4.2.1-a+b_cot^{-m}-c+d_cot⁻ⁿ [106]
113. 4_Trig_functions/4.4_Cotangent/113_4.4.7-d_trig^{-m}-a+b-c_cot⁻ⁿ-P [64]
114. 4_Trig_functions/4.4_Cotangent/114_4.4.9_trig^m-a+b_cotⁿ+c_cot²_n-P [32]
115. 4_Trig_functions/4.5_Secant/115_4.5.0-a_sec^{-m}-b_trg⁻ⁿ [299]
116. 4_Trig_functions/4.5_Secant/116_4.5.10-c+d_x^{-m}-a+b_sec⁻ⁿ [46]
117. 4_Trig_functions/4.5_Secant/117_4.5.11-e_x^{-m}-a+b_sec-c+d_xⁿ-P [83]
118. 4_Trig_functions/4.5_Secant/118_4.5.1.2-d_sec⁻ⁿ-a+b_sec^{-m} [879]
119. 4_Trig_functions/4.5_Secant/119_4.5.1.3-d_sin⁻ⁿ-a+b_sec^{-m} [306]
120. 4_Trig_functions/4.5_Secant/120_4.5.1.4-d_tan⁻ⁿ-a+b_sec^{-m} [365]
121. 4_Trig_functions/4.5_Secant/121_4.5.2.1-a+b_sec^{-m}-c+d_sec⁻ⁿ [241]
122. 4_Trig_functions/4.5_Secant/122_4.5.2.3-g_sec^{-p}-a+b_sec^{-m}-c+d_sec⁻ⁿ [286]
123. 4_Trig_functions/4.5_Secant/123_4.5.3.1-a+b_sec^{-m}-d_sec⁻ⁿ-A+B_sec- [634]
124. 4_Trig_functions/4.5_Secant/124_4.5.4.1-a+b_sec^{-m}-A+B_sec+C_sec²- [70]
125. 4_Trig_functions/4.5_Secant/125_4.5.4.2-a+b_sec^{-m}-d_sec⁻ⁿ-A+B_sec+C_sec²- [1373]

126. 4_Trig_functions/4.5_Secant/126_4.5.7-d_trig^{-m}-a+b-c_sec^{-n-p} [470]
127. 4_Trig_functions/4.6_Cosecant/127_4.6.0-a_csc^{-m}-b_trg⁻ⁿ [70]
128. 4_Trig_functions/4.6_Cosecant/128_4.6.11-e_x^{-m}-a+b_csc-c+d_x^{n-p}
[84]
129. 4_Trig_functions/4.6_Cosecant/129_4.6.1.2-d_csc⁻ⁿ-a+b_csc^{-m} [59]
130. 4_Trig_functions/4.6_Cosecant/130_4.6.1.3-d_cos⁻ⁿ-a+b_csc^{-m} [16]
131. 4_Trig_functions/4.6_Cosecant/131_4.6.1.4-d_cot⁻ⁿ-a+b_csc^{-m} [23]
132. 4_Trig_functions/4.6_Cosecant/132_4.6.3.1-a+b_csc^{-m}-d_csc⁻ⁿ-A+B_c
sc- [24]
133. 4_Trig_functions/4.6_Cosecant/133_4.6.4.2-a+b_csc^{-m}-d_csc⁻ⁿ-A+B_c
sc+C_csc²- [1]
134. 4_Trig_functions/4.6_Cosecant/134_4.6.7-d_trig^{-m}-a+b-c_csc^{-n-p}
[27]
135. 4_Trig_functions/4.7_Miscellaneous/135_4.7.1-c_trig^{-m}-d_trig⁻ⁿ
[254]
136. 4_Trig_functions/4.7_Miscellaneous/136_4.7.2_trig^m-a_trig+b_trig⁻ⁿ
[294]
137. 4_Trig_functions/4.7_Miscellaneous/137_4.7.3-c+d_x^{-m}_trigⁿ_trig^p
[397]
138. 4_Trig_functions/4.7_Miscellaneous/138_4.7.4_x^m-a+b_trig^{n-p} [9]
139. 4_Trig_functions/4.7_Miscellaneous/139_4.7.5_x^m_trig-a+b_log-c_xⁿ
^{-p} [330]
140. 4_Trig_functions/4.7_Miscellaneous/140_4.7.6_f^{-a}+b_x+c_x²-trig-d+e
_x+f_x²⁻ⁿ [142]
141. 4_Trig_functions/4.7_Miscellaneous/141_4.7.7_Trig_functions [950]
142. 5_Inverse_trig_functions/5.1_Inverse_sine/142_5.1.2-d_x^{-m}-a+b_arc
sin-c_x⁻ⁿ [227]
143. 5_Inverse_trig_functions/5.1_Inverse_sine/143_5.1.4-f_x^{-m}-d+e_x²
^{-p}-a+b_arcsin-c_x⁻ⁿ [703]
144. 5_Inverse_trig_functions/5.1_Inverse_sine/144_5.1.5_Inverse_sine_f
unctions [474]

145. 5_Inverse_trig_functions/5.2_Inverse_cosine/145_5.2.2-d_x^{-m}-a+b_arccos-c_x⁻ⁿ [227]
146. 5_Inverse_trig_functions/5.2_Inverse_cosine/146_5.2.4-f_x^{-m}-d+e_x²-p-a+b_arccos-c_x⁻ⁿ [33]
147. 5_Inverse_trig_functions/5.2_Inverse_cosine/147_5.2.5_Inverse_cosine_functions [118]
148. 5_Inverse_trig_functions/5.3_Inverse_tangent/148_5.3.2-d_x^{-m}-a+b_arctan-c_x^{n-p} [166]
149. 5_Inverse_trig_functions/5.3_Inverse_tangent/149_5.3.3-d+e_x^{-m}-a+b_arctan-c_x^{n-p} [31]
150. 5_Inverse_trig_functions/5.3_Inverse_tangent/150_5.3.4_u-a+b_arctan-c_x^{-p} [1301]
151. 5_Inverse_trig_functions/5.3_Inverse_tangent/151_5.3.5_u-a+b_arctan-c+d_x^{-p} [70] { **Mathematica: 65, 66, 69, 70.** }
152. 5_Inverse_trig_functions/5.3_Inverse_tangent/152_5.3.6_Exponentials_of_inverse_tangent [385]
153. 5_Inverse_trig_functions/5.3_Inverse_tangent/153_5.3.7_Inverse_tangent_functions [153]
154. 5_Inverse_trig_functions/5.4_Inverse_cotangent/154_5.4.1_Inverse_cotangent_functions [234] { **Mathematica: 116, 117, 120, 121.** }
155. 5_Inverse_trig_functions/5.4_Inverse_cotangent/155_5.4.2_Exponentials_of_inverse_cotangent [12]
156. 5_Inverse_trig_functions/5.5_Inverse_secant/156_5.5.1_u-a+b_arccsc-c_x⁻ⁿ [174]
157. 5_Inverse_trig_functions/5.5_Inverse_secant/157_5.5.2_Inverse_secant_functions [50]
158. 5_Inverse_trig_functions/5.6_Inverse_cosecant/158_5.6.1_u-a+b_arccsc-c_x⁻ⁿ [178]
159. 5_Inverse_trig_functions/5.6_Inverse_cosecant/159_5.6.2_Inverse_cosecant_functions [49]
160. 6_Hyperbolic_functions/6.1_Hyperbolic_sine/160_6.1.1-c+d_x^{-m}-a+b_sinh⁻ⁿ [502]

161. 6_Hyperbolic_functions/6.1_Hyperbolic_sine/161_6.1.3-e_x^{-m}-a+b_sinh-c+d_x^{n-p} [102]
162. 6_Hyperbolic_functions/6.1_Hyperbolic_sine/162_6.1.4-d+e_x^{-m}_sinh-a+b_x+c_x²⁻ⁿ [33]
163. 6_Hyperbolic_functions/6.1_Hyperbolic_sine/163_6.1.5_Hyperbolic_sine_functions [369]
164. 6_Hyperbolic_functions/6.1_Hyperbolic_sine/164_6.1.7_hyper^m-a+b_sinh^{n-p} [525]
165. 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/165_6.2.1-c+d_x^{-m}-a+b_cosh⁻ⁿ [183]
166. 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/166_6.2.2-e_x^{-m}-a+b_x^{n-p}_cosh [111]
167. 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/167_6.2.3-e_x^{-m}-a+b_cosh-c+d_x^{n-p} [68]
168. 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/168_6.2.4-d+e_x^{-m}_cosh-a+b_x+c_x²⁻ⁿ [33]
169. 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/169_6.2.5_Hyperbolic_cosine_functions [336]
170. 6_Hyperbolic_functions/6.2_Hyperbolic_cosine/170_6.2.7_hyper^m-a+b_cosh^{n-p} [85]
171. 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/171_6.3.1-c+d_x^{-m}-a+b_tanh⁻ⁿ [77]
172. 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/172_6.3.2_Hyperbolic_tangent_functions [247]
173. 6_Hyperbolic_functions/6.3_Hyperbolic_tangent/173_6.3.7-d_hyper^{-m}-a+b-c_tanh^{-n-p} [263] { **Mathematica: 74, 76, 77, 79. Fricas: 74, 76, 77, 79. Mupad: 76, 77, 79.** }
174. 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/174_6.4.1-c+d_x^{-m}-a+b_coth⁻ⁿ [61]
175. 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/175_6.4.2_Hyperbolic_cotangent_functions [224]
176. 6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/176_6.4.7-d_hyper^{-m}-a+b-c_coth^{-n-p} [53]

-
177. 6_Hyperbolic_functions/6.5_Hyperbolic_secant/177_6.5.1-c+d_x^{-m}-a+b
_sech⁻ⁿ [16]
178. 6_Hyperbolic_functions/6.5_Hyperbolic_secant/178_6.5.2-e_x^{-m}-a+b_s
ech-c+d_x^{n-p} [84]
179. 6_Hyperbolic_functions/6.5_Hyperbolic_secant/179_6.5.3_Hyperbolic_
secant_functions [201]
180. 6_Hyperbolic_functions/6.5_Hyperbolic_secant/180_6.5.7-d_hyper^{-m}-a
+b-c_sech^{-n-p} [220]
181. 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/181_6.6.1-c+d_x^{-m}-a
+b_csch⁻ⁿ [29]
182. 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/182_6.6.2-e_x^{-m}-a+b
_csch-c+d_x^{n-p} [83]
183. 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/183_6.6.3_Hyperboli
c_cosecant_functions [175]
184. 6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/184_6.6.7-d_hyper
^{-m}-a+b-c_csch^{-n-p} [27]
185. 6_Hyperbolic_functions/6.7_Miscellaneous/185_6.7.1_Hyperbolic_func
tions [1059]
186. 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/186_7.1
.2-d_x^{-m}-a+b_arcsinh-c_x⁻ⁿ [156]
187. 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/187_7.1
.4-f_x^{-m}-d+e_x^{2-p}-a+b_arcsinh-c_x⁻ⁿ [663]
188. 7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/188_7.1
.5_Inverse_hyperbolic_sine_functions [371]
189. 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/189_7
.2.2-d_x^{-m}-a+b_arccosh-c_x⁻ⁿ [166]
190. 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/190_7
.2.4-f_x^{-m}-d+e_x^{2-p}-a+b_arccosh-c_x⁻ⁿ [569]
191. 7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/191_7
.2.5_Inverse_hyperbolic_cosine_functions [296]
192. 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/192_
7.3.2-d_x^{-m}-a+b_arctanh-c_x^{n-p} [243]

-
- 193. 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/193_7.3.3-d+e_x^{-m}-a+b_arctanh-c_x^{n-p} [49]
 - 194. 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/194_7.3.4_u-a+b_arctanh-c_x^{-p} [538]
 - 195. 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/195_7.3.5_u-a+b_arctanh-c+d_x^{-p} [62]
 - 196. 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/196_7.3.6_Exponentials_of_inverse_hyperbolic_tangent_functions [1378]
 - 197. 7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/197_7.3.7_Inverse_hyperbolic_tangent_functions [361]
 - 198. 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/198_7.4.1_Inverse_hyperbolic_cotangent_functions [300]
 - 199. 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/199_7.4.2_Exponentials_of_inverse_hyperbolic_cotangent_functions [935]
 - 200. 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/200_7.5.1_u-a+b_arcsech-c_x⁻ⁿ [190]
 - 201. 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/201_7.5.2_Inverse_hyperbolic_secant_functions [100]
 - 202. 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/202_7.6.1_u-a+b_arccsch-c_x⁻ⁿ [178]
 - 203. 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/203_7.6.2_Inverse_hyperbolic_cosecant_functions [71]
 - 204. 8_Special_functions/204_8.1_Error_functions [311]
 - 205. 8_Special_functions/205_8.2_Fresnel_integral_functions [218]
 - 206. 8_Special_functions/206_8.4_Trig_integral_functions [136] {
Mathematica: 115. Fracas: 16. }
 - 207. 8_Special_functions/207_8.5_Hyperbolic_integral_functions [136]
 - 208. 8_Special_functions/208_8.8_Polylogarithm_function [198]
 - 209. 209_Blake_problems [3154]
 - 210. 210_1_Hebisch [3000]
-

- 211. 210_2_Hebisch [3000]
- 212. 210_3_Hebisch [3000]
- 213. 210_4_Hebisch [1335]
- 214. 11_MIT [321]
- 215. 12_table_of_integrals [163]
- 216. 213_Goursat [15]

CHAPTER 4

LISTING OF INTEGRALS SOLVED BY CAS WHICH HAS NO KNOWN ANTIDERIVATIVES

4.1	Test file Number [5]	6273
4.2	Test file Number [57]	6273
4.3	Test file Number [58]	6281
4.4	Test file Number [63]	6286
4.5	Test file Number [79]	6300
4.6	Test file Number [151]	6314
4.7	Test file Number [154]	6316
4.8	Test file Number [173]	6318
4.9	Test file Number [206]	6328

4.1 Test file Number [5]

4.1.1 Maxima

Integral number [145]

$$\int x \cos(k \csc(x)) \cot(x) \csc(x) dx$$

[C] time = 0.222839 (sec), size = 240 ,normalized size = 21.82

$$\left(x e^{\left(\frac{4k \cos(2x) \cos(x)}{\cos(2x)^2 + \sin(2x)^2 - 2 \cos(2x) + 1} + \frac{4k \sin(2x) \sin(x)}{\cos(2x)^2 + \sin(2x)^2 - 2 \cos(2x) + 1} \right)} + x e^{\left(\frac{4k \cos(x)}{\cos(2x)^2 + \sin(2x)^2 - 2 \cos(2x) + 1} \right)} \right) e^{\left(-\frac{2k \cos(2x) \cos(x)}{\cos(2x)^2 + \sin(2x)^2 - 2 \cos(2x) + 1} \right)}$$

2k

[In] integrate(x*cos(x)*cos(k/sin(x))/sin(x)^2,x, algorithm="maxima")

output

```
-1/2*(x*e^(4*k*cos(2*x)*cos(x)/(cos(2*x)^2 + sin(2*x)^2 - 2*cos(2*x) + 1) + 4*
k*sin(2*x)*sin(x)/(cos(2*x)^2 + sin(2*x)^2 - 2*cos(2*x) + 1)) + x*e^(4*k*cos(x)
)/(cos(2*x)^2 + sin(2*x)^2 - 2*cos(2*x) + 1)) * e^(-2*k*cos(2*x)*cos(x)/(cos(2*
x)^2 + sin(2*x)^2 - 2*cos(2*x) + 1) - 2*k*sin(2*x)*sin(x)/(cos(2*x)^2 + sin(2*
x)^2 - 2*cos(2*x) + 1) - 2*k*cos(x)/(cos(2*x)^2 + sin(2*x)^2 - 2*cos(2*x) + 1)
)*sin(2*(k*cos(x)*sin(2*x) - k*cos(2*x)*sin(x) + k*sin(x))/(cos(2*x)^2 + sin(2
*x)^2 - 2*cos(2*x) + 1))/k
```

4.2 Test file Number [57]

4.2.1 Mathematica

Integral number [166]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{d + ex} dx$$

[B] time = 0.128514 (sec), size = 72 ,normalized size = 3.13

$$\frac{x(fx)^m \left(-bn {}_3F_2(1, 1 + m, 1 + m; 2 + m, 2 + m; -\frac{ex}{d}) + (1 + m) \text{Hypergeometric2F1}(1, 1 + m, 2 + m, -\frac{ex}{d}) \right)}{d(1 + m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x),x]

output $(x*(f*x)^m*(-(b*n*HypergeometricPFQ[\{1, 1 + m, 1 + m\}, \{2 + m, 2 + m\}, -((e*x)/d)]) + (1 + m)*Hypergeometric2F1[1, 1 + m, 2 + m, -((e*x)/d)]*(a + b*Log[c*x^n])))/(d*(1 + m)^2)$

Integral number [167]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{(d + ex)^2} dx$$

[B] time = 0.117558 (sec), size = 72 ,normalized size = 3.13

$$\frac{x(fx)^m \left(-bn {}_3F_2\left(2, 1 + m, 1 + m; 2 + m, 2 + m; -\frac{ex}{d}\right) + (1 + m) \text{Hypergeometric2F1}\left(2, 1 + m, 2 + m, -\frac{ex}{d}\right)\right)}{d^2(1 + m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x)^2,x]

output $(x*(f*x)^m*(-(b*n*HypergeometricPFQ[\{2, 1 + m, 1 + m\}, \{2 + m, 2 + m\}, -((e*x)/d)]) + (1 + m)*Hypergeometric2F1[2, 1 + m, 2 + m, -((e*x)/d)]*(a + b*Log[c*x^n])))/(d^2*(1 + m)^2)$

Integral number [168]

$$\int x(a + bx)^m \log(cx^n) dx$$

[B] time = 0.16101 (sec), size = 173 ,normalized size = 11.53

$$\frac{(a + bx)^m \left(1 + \frac{bx}{a}\right)^{-m} \left(-n(2abx\left(1 + \frac{bx}{a}\right)^m + b^2x^2\left(1 + \frac{bx}{a}\right)^m + a^2(-1 + \left(1 + \frac{bx}{a}\right)^m)\right) + ab(2 + m)nx {}_3F_2\left(1, 1, -1 - m; 2, 2; -\frac{bx}{a}\right)}{b^2(1 + m)}$$

[In] Integrate[x*(a + b*x)^m*Log[c*x^n],x]

output $((a + b*x)^m*(-(n*(2*a*b*x*(1 + (b*x)/a)^m + b^2*x^2*(1 + (b*x)/a)^m + a^2*(-1 + (1 + (b*x)/a)^m))) + a*b*(2 + m)*n*x*HypergeometricPFQ[\{1, 1, -1 - m\}, \{2, 2\}, -((b*x)/a)] + (a*b*m*x*(1 + (b*x)/a)^m + b^2*(1 + m)*x^2*(1 + (b*x)/a)^m - a^2*(-1 + (1 + (b*x)/a)^m))*Log[c*x^n]))/(b^2*(1 + m)*(2 + m)*(1 + (b*x)/a)^m)$

Integral number [170]

$$\int \frac{(a + bx)^m \log(cx^n)}{x} dx$$

[B] time = 0.0419056 (sec), size = 89 ,normalized size = 5.24

$$\frac{\left(1 + \frac{a}{bx}\right)^{-m} (a + bx)^m \left(-n {}_3F_2\left(-m, -m, -m; 1 - m, 1 - m; -\frac{a}{bx}\right) + m \operatorname{Hypergeometric2F1}\left(-m, -m, 1 - m, -\frac{a}{bx}\right)\right)}{m^2}$$

[In] Integrate[((a + b*x)^m*Log[c*x^n])/x,x]

output $((a + b*x)^m*(-(n*\operatorname{HypergeometricPFQ}\{-m, -m, -m\}, \{1 - m, 1 - m\}, -(a/(b*x)))) + m*\operatorname{Hypergeometric2F1}[-m, -m, 1 - m, -(a/(b*x))]*\operatorname{Log}[c*x^n]))/(m^2*(1 + a/(b*x))^m)$

Integral number [322]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{d + ex^2} dx$$

[B] time = 0.703872 (sec), size = 108 ,normalized size = 4.32

$$\frac{x(fx)^m \left(-bn {}_3F_2\left(1, \frac{1}{2} + \frac{m}{2}, \frac{1}{2} + \frac{m}{2}; \frac{3}{2} + \frac{m}{2}, \frac{3}{2} + \frac{m}{2}; -\frac{ex^2}{d}\right) + (1 + m) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{2}, \frac{3+m}{2}, -\frac{ex^2}{d}\right)\right)}{d(1 + m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x^2),x]

output $(x*(f*x)^m*(-(b*n*\operatorname{HypergeometricPFQ}\{1, 1/2 + m/2, 1/2 + m/2\}, \{3/2 + m/2, 3/2 + m/2\}, -(e*x^2/d))) + (1 + m)*\operatorname{Hypergeometric2F1}[1, (1 + m)/2, (3 + m)/2, -(e*x^2/d)]*(a + b*\operatorname{Log}[c*x^n]))/(d*(1 + m)^2)$

Integral number [323]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{(d + ex^2)^2} dx$$

[B] time = 0.136591 (sec), size = 108 ,normalized size = 4.32

$$\frac{x(fx)^m \left(-bn {}_3F_2\left(2, \frac{1}{2} + \frac{m}{2}, \frac{1}{2} + \frac{m}{2}; \frac{3}{2} + \frac{m}{2}, \frac{3}{2} + \frac{m}{2}; -\frac{ex^2}{d}\right) + (1 + m) \operatorname{Hypergeometric2F1}\left(2, \frac{1+m}{2}, \frac{3+m}{2}, -\frac{ex^2}{d}\right)\right)}{d^2(1 + m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x^2)^2,x]

output $(x*(f*x)^m*(-(b*n*HypergeometricPFQ\{2, 1/2 + m/2, 1/2 + m/2\}, \{3/2 + m/2, 3/2 + m/2\}, -(e*x^2)/d)) + (1 + m)*Hypergeometric2F1[2, (1 + m)/2, (3 + m)/2, -(e*x^2)/d]*(a + b*Log[c*x^n]))/(d^2*(1 + m)^2)$

Integral number [406]

$$\int \frac{x^3(a + b \log(cx^n))}{d + ex^r} dx$$

[B] time = 0.0916891 (sec), size = 87 ,normalized size = 3.78

$$\frac{x^4(-bn {}_3F_2(1, \frac{4}{r}, \frac{4}{r}; 1 + \frac{4}{r}, 1 + \frac{4}{r}; -\frac{ex^r}{d}) + 4 \text{Hypergeometric2F1}(1, \frac{4}{r}, \frac{4+r}{r}, -\frac{ex^r}{d})(a + b \log(cx^n)))}{16d}$$

[In] Integrate[(x^3*(a + b*Log[c*x^n]))/(d + e*x^r),x]

output $(x^4*(-(b*n*HypergeometricPFQ\{1, 4/r, 4/r\}, \{1 + 4/r, 1 + 4/r\}, -(e*x^r)/d)) + 4*Hypergeometric2F1[1, 4/r, (4 + r)/r, -(e*x^r)/d]*(a + b*Log[c*x^n]))/(16*d)$

Integral number [407]

$$\int \frac{x(a + b \log(cx^n))}{d + ex^r} dx$$

[B] time = 0.0764756 (sec), size = 87 ,normalized size = 4.14

$$\frac{x^2(-bn {}_3F_2(1, \frac{2}{r}, \frac{2}{r}; 1 + \frac{2}{r}, 1 + \frac{2}{r}; -\frac{ex^r}{d}) + 2 \text{Hypergeometric2F1}(1, \frac{2}{r}, \frac{2+r}{r}, -\frac{ex^r}{d})(a + b \log(cx^n)))}{4d}$$

[In] Integrate[(x*(a + b*Log[c*x^n]))/(d + e*x^r),x]

output $(x^2*(-(b*n*HypergeometricPFQ\{1, 2/r, 2/r\}, \{1 + 2/r, 1 + 2/r\}, -(e*x^r)/d)) + 2*Hypergeometric2F1[1, 2/r, (2 + r)/r, -(e*x^r)/d]*(a + b*Log[c*x^n]))/(4*d)$

Integral number [409]

$$\int \frac{a + b \log(cx^n)}{x^3(d + ex^r)} dx$$

[B] time = 0.0886791 (sec), size = 86 ,normalized size = 3.74

$$\frac{bn {}_3F_2\left(1, -\frac{2}{r}, -\frac{2}{r}; 1 - \frac{2}{r}, 1 - \frac{2}{r}; -\frac{ex^r}{d}\right) + 2 \text{Hypergeometric2F1}\left(1, -\frac{2}{r}, \frac{-2+r}{r}, -\frac{ex^r}{d}\right) (a + b \log(cx^n))}{4dx^2}$$

[In] Integrate[(a + b*Log[c*x^n])/(x^3*(d + e*x^r)),x]

output
$$\frac{-1/4*(b*n*\text{HypergeometricPFQ}[\{1, -2/r, -2/r\}, \{1 - 2/r, 1 - 2/r\}, -((e*x^r)/d)] + 2*\text{Hypergeometric2F1}[1, -2/r, (-2 + r)/r, -((e*x^r)/d)]*(a + b*\text{Log}[c*x^n]))}{(d*x^2)}$$

Integral number [410]

$$\int \frac{x^2(a + b \log(cx^n))}{d + ex^r} dx$$

[B] time = 0.0840796 (sec), size = 87 ,normalized size = 3.78

$$\frac{x^3(-bn {}_3F_2\left(1, \frac{3}{r}, \frac{3}{r}; 1 + \frac{3}{r}, 1 + \frac{3}{r}; -\frac{ex^r}{d}\right) + 3 \text{Hypergeometric2F1}\left(1, \frac{3}{r}, \frac{3+r}{r}, -\frac{ex^r}{d}\right) (a + b \log(cx^n)))}{9d}$$

[In] Integrate[(x^2*(a + b*Log[c*x^n]))/(d + e*x^r),x]

output
$$\frac{(x^3*(-(b*n*\text{HypergeometricPFQ}[\{1, 3/r, 3/r\}, \{1 + 3/r, 1 + 3/r\}, -((e*x^r)/d)] + 3*\text{Hypergeometric2F1}[1, 3/r, (3 + r)/r, -((e*x^r)/d)]*(a + b*\text{Log}[c*x^n])))}{(9*d)}$$

Integral number [411]

$$\int \frac{a + b \log(cx^n)}{d + ex^r} dx$$

[B] time = 0.0650704 (sec), size = 69 ,normalized size = 3.45

$$\frac{x(-bn {}_3F_2\left(1, \frac{1}{r}, \frac{1}{r}; 1 + \frac{1}{r}, 1 + \frac{1}{r}; -\frac{ex^r}{d}\right) + \text{Hypergeometric2F1}\left(1, \frac{1}{r}, 1 + \frac{1}{r}, -\frac{ex^r}{d}\right) (a + b \log(cx^n)))}{d}$$

[In] Integrate[(a + b*Log[c*x^n])/(d + e*x^r),x]

output $(x*(-(b*n*HypergeometricPFQ[\{1, r^{-(-1)}, r^{-(-1)}\}, \{1 + r^{-(-1)}, 1 + r^{-(-1)}\}, -((e*x^r)/d)]) + Hypergeometric2F1[1, r^{-(-1)}, 1 + r^{-(-1)}, -((e*x^r)/d)]*(a + b*Log[c*x^n])))/d$

Integral number [412]

$$\int \frac{a + b \log(cx^n)}{x^2(d + ex^r)} dx$$

[B] time = 0.0852945 (sec), size = 83 ,normalized size = 3.61

$$\frac{bn {}_3F_2\left(1, -\frac{1}{r}, -\frac{1}{r}; 1 - \frac{1}{r}, 1 - \frac{1}{r}; -\frac{ex^r}{d}\right) + Hypergeometric2F1\left(1, -\frac{1}{r}, \frac{-1+r}{r}, -\frac{ex^r}{d}\right) (a + b \log(cx^n))}{dx}$$

[In] Integrate[(a + b*Log[c*x^n])/(x^2*(d + e*x^r)),x]

output $-((b*n*HypergeometricPFQ[\{1, -r^{-(-1)}, -r^{-(-1)}\}, \{1 - r^{-(-1)}, 1 - r^{-(-1)}\}, -((e*x^r)/d)] + Hypergeometric2F1[1, -r^{-(-1)}, (-1 + r)/r, -((e*x^r)/d)]*(a + b*Log[c*x^n]))/(d*x)$

Integral number [413]

$$\int \frac{x^3(a + b \log(cx^n))}{(d + ex^r)^2} dx$$

[B] time = 0.164696 (sec), size = 140 ,normalized size = 6.09

$$\frac{x^4(-bn(-4 + r)(d + ex^r) {}_3F_2\left(1, \frac{4}{r}, \frac{4}{r}; 1 + \frac{4}{r}, 1 + \frac{4}{r}; -\frac{ex^r}{d}\right) + 16d(a + b \log(cx^n)) + 4(d + ex^r) Hypergeometric2F1[1, 4/r, (4 + r)/r, -((e*x^r)/d)]*(a + b*Log[c*x^n]))}{16d^2r(d + ex^r)}$$

[In] Integrate[(x^3*(a + b*Log[c*x^n]))/(d + e*x^r)^2,x]

output $(x^4*(-(b*n*(-4 + r)*(d + e*x^r)*HypergeometricPFQ[\{1, 4/r, 4/r\}, \{1 + 4/r, 1 + 4/r\}, -((e*x^r)/d)]) + 16*d*(a + b*Log[c*x^n]) + 4*(d + e*x^r)*Hypergeometric2F1[1, 4/r, (4 + r)/r, -((e*x^r)/d)]*(a + b*Log[c*x^n])))/(16*d^2*r*(d + e*x^r))$

Integral number [414]

$$\int \frac{x(a + b \log(cx^n))}{(d + ex^r)^2} dx$$

[B] time = 0.161746 (sec), size = 140 ,normalized size = 6.67

$$\frac{x^2(-bn(-2+r)(d+ex^r) {}_3F_2\left(1, \frac{2}{r}, \frac{2}{r}; 1+\frac{2}{r}, 1+\frac{2}{r}; -\frac{ex^r}{d}\right) + 4d(a+b\log(cx^n)) + 2(d+ex^r) \text{Hypergeometric}}{4d^2r(d+ex^r)}$$

[In] Integrate[(x*(a + b*Log[c*x^n]))/(d + e*x^r)^2,x]

output $(x^2*(-(b*n*(-2+r)*(d+e*x^r)*\text{HypergeometricPFQ}[\{1, 2/r, 2/r\}, \{1+2/r, 1+2/r\}, -(e*x^r)/d]) + 4*d*(a+b*\text{Log}[c*x^n]) + 2*(d+e*x^r)*\text{Hypergeometric2F1}[1, 2/r, (2+r)/r, -(e*x^r)/d]*(-(b*n) + a*(-2+r) + b*(-2+r)*\text{Log}[c*x^n])))/(4*d^2*r*(d+e*x^r))$

Integral number [416]

$$\int \frac{a + b \log(cx^n)}{x^3 (d + ex^r)^2} dx$$

[B] time = 0.163581 (sec), size = 139 ,normalized size = 6.04

$$\frac{bn(2+r)(d+ex^r) {}_3F_2\left(1, -\frac{2}{r}, -\frac{2}{r}; 1-\frac{2}{r}, 1-\frac{2}{r}; -\frac{ex^r}{d}\right) - 4d(a+b\log(cx^n)) + 2(d+ex^r) \text{Hypergeometric}}{4d^2rx^2(d+ex^r)}$$

[In] Integrate[(a + b*Log[c*x^n])/(x^3*(d + e*x^r)^2),x]

output $-1/4*(b*n*(2+r)*(d+e*x^r)*\text{HypergeometricPFQ}[\{1, -2/r, -2/r\}, \{1-2/r, 1-2/r\}, -(e*x^r)/d] - 4*d*(a+b*\text{Log}[c*x^n]) + 2*(d+e*x^r)*\text{Hypergeometric2F1}[1, -2/r, (-2+r)/r, -(e*x^r)/d]*(-(b*n) + a*(2+r) + b*(2+r)*\text{Log}[c*x^n]))/(d^2*r*x^2*(d+e*x^r))$

Integral number [417]

$$\int \frac{x^2(a + b \log(cx^n))}{(d + ex^r)^2} dx$$

[B] time = 0.156319 (sec), size = 140 ,normalized size = 6.09

$$\frac{x^3(-bn(-3+r)(d+ex^r) {}_3F_2\left(1, \frac{3}{r}, \frac{3}{r}; 1+\frac{3}{r}, 1+\frac{3}{r}; -\frac{ex^r}{d}\right) + 9d(a+b\log(cx^n)) + 3(d+ex^r) \text{Hypergeometric}}{9d^2r(d+ex^r)}$$

[In] Integrate[(x^2*(a + b*Log[c*x^n]))/(d + e*x^r)^2,x]

output $(x^3*(-(b*n*(-3+r)*(d+e*x^r)*\text{HypergeometricPFQ}[\{1, 3/r, 3/r\}, \{1+3/r, 1+3/r\}, -(e*x^r)/d]) + 9*d*(a+b*\text{Log}[c*x^n]) + 3*(d+e*x^r)*\text{Hypergeometric2F1}[1, 3/r, (3+r)/r, -(e*x^r)/d])*(-(b*n) + a*(-3+r) + b*(-3+r)*\text{Log}[c*x^n]))/(9*d^2*r*(d+e*x^r))$

Integral number [418]

$$\int \frac{a + b \log(cx^n)}{(d + ex^r)^2} dx$$

[B] time = 1.70687 (sec), size = 161 ,normalized size = 8.05

$x(adr \text{Hypergeometric2F1}(2, \frac{1}{r}, 1 + \frac{1}{r}, -\frac{ex^r}{d}) + aerx^r \text{Hypergeometric2F1}(2, \frac{1}{r}, 1 + \frac{1}{r}, -\frac{ex^r}{d}) - bn(-1 + r)) / (d^2r(d + ex^r)^2)$

[In] Integrate[(a + b*Log[c*x^n])/(d + e*x^r)^2,x]

output $(x*(a*d*r*\text{Hypergeometric2F1}[2, r^(-1), 1+r^(-1), -(e*x^r)/d] + a*e*r*x^r*\text{Hypergeometric2F1}[2, r^(-1), 1+r^(-1), -(e*x^r)/d] - b*n*(-1+r)*(d+e*x^r)*\text{HypergeometricPFQ}[\{1, r^(-1), r^(-1)\}, \{1+r^(-1), 1+r^(-1)\}, -(e*x^r)/d] + b*d*\text{Log}[c*x^n] - b*(d+e*x^r)*\text{Hypergeometric2F1}[1, r^(-1), 1+r^(-1), -(e*x^r)/d])*(n - (-1+r)*\text{Log}[c*x^n]))/(d^2*r*(d+e*x^r))$

Integral number [419]

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^r)^2} dx$$

[B] time = 0.138563 (sec), size = 135 ,normalized size = 5.87

$-bn(1+r)(d+ex^r) {}_3F_2(1, -\frac{1}{r}, -\frac{1}{r}; 1-\frac{1}{r}, 1-\frac{1}{r}; -\frac{ex^r}{d}) + d(a+b \log(cx^n)) - (d+ex^r) \text{Hypergeometric2F1}[1, -r^(-1), (-1+r)/r, -(e*x^r)/d] / (d^2rx(d+ex^r)^2)$

[In] Integrate[(a + b*Log[c*x^n])/(x^2*(d + e*x^r)^2),x]

output $(-(b*n*(1+r)*(d+e*x^r)*\text{HypergeometricPFQ}[\{1, -r^(-1), -r^(-1)\}, \{1-r^(-1), 1-r^(-1)\}, -(e*x^r)/d]) + d*(a+b*\text{Log}[c*x^n]) - (d+e*x^r)*\text{Hypergeometric2F1}[1, -r^(-1), (-1+r)/r, -(e*x^r)/d])*(a-b*n+a*r+b*(1+r)*\text{Log}[c*x^n]))/(d^2*r*x*(d+e*x^r))$

Integral number [444]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{d + ex^r} dx$$

[B] time = 0.157935 (sec), size = 111 ,normalized size = 4.44

$$\frac{x(fx)^m \left(-bn {}_3F_2\left(1, \frac{1}{r} + \frac{m}{r}, \frac{1}{r} + \frac{m}{r}; 1 + \frac{1}{r} + \frac{m}{r}, 1 + \frac{1}{r} + \frac{m}{r}; -\frac{ex^r}{d}\right) + (1+m) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{r}, 1 + \frac{1+m}{r}, -\frac{ex^r}{d}\right)\right)}{d(1+m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x^r),x]

output $(x*(f*x)^m*(-(b*n*\operatorname{HypergeometricPFQ}[\{1, r^{(-1)} + m/r, r^{(-1)} + m/r\}, \{1 + r^{(-1)} + m/r, 1 + r^{(-1)} + m/r\}, -(e*x^r)/d]) + (1+m)*\operatorname{Hypergeometric2F1}[1, (1+m)/r, (1+m+r)/r, -(e*x^r)/d])*(a + b*\operatorname{Log}[c*x^n])))/(d*(1+m)^2)$

Integral number [445]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{(d + ex^r)^2} dx$$

[B] time = 0.296047 (sec), size = 177 ,normalized size = 7.08

$$\frac{x(fx)^m \left(bn(1+m-r)(d+ex^r) {}_3F_2\left(1, \frac{1}{r} + \frac{m}{r}, \frac{1}{r} + \frac{m}{r}; 1 + \frac{1}{r} + \frac{m}{r}, 1 + \frac{1}{r} + \frac{m}{r}; -\frac{ex^r}{d}\right) - (1+m) \left(-d(1+m) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{r}, \frac{1+m+r}{r}, -\frac{ex^r}{d}\right) + (1+m) \operatorname{Log}\left[-\frac{ex^r}{d}\right]\right)\right)}{d^2(1+m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x^r)^2,x]

output $(x*(f*x)^m*(b*n*(1+m-r)*(d+e*x^r)*\operatorname{HypergeometricPFQ}[\{1, r^{(-1)} + m/r, r^{(-1)} + m/r\}, \{1 + r^{(-1)} + m/r, 1 + r^{(-1)} + m/r\}, -(e*x^r)/d] - (1+m)*(-d*(1+m)*(a + b*\operatorname{Log}[c*x^n])) + (d + e*x^r)*\operatorname{Hypergeometric2F1}[1, (1+m)/r, (1+m+r)/r, -(e*x^r)/d])*(b*n + a*(1+m-r) + b*(1+m-r)*\operatorname{Log}[c*x^n])))/(d^2*(1+m)^2*r*(d + e*x^r))$

4.3 Test file Number [58]

4.3.1 Mathematica

Integral number [138]

$$\int (gx)^q (a + b \log(cx^n)) \log(d(e + fx^m)^k) dx$$

[B] time = 0.33242 (sec), size = 304 ,normalized size = 10.86

$$\frac{x(gx)^q \left(-akm + 2bkmn - akmq - bkmn {}_3F_2\left(1, \frac{1}{m} + \frac{q}{m}, \frac{1}{m} + \frac{q}{m}; 1 + \frac{1}{m} + \frac{q}{m}, 1 + \frac{1}{m} + \frac{q}{m}; -\frac{fx^m}{e}\right) - bkm \operatorname{Log}\left[-\frac{fx^m}{e}\right]\right)}{d^2(1+m)^2}$$

[In] Integrate[(g*x)^q*(a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k],x]

output $(x*(g*x)^q*(-(a*k*m) + 2*b*k*m*n - a*k*m*q - b*k*m*n*HypergeometricPFQ[\{1, m^{(-1)} + q/m, m^{(-1)} + q/m\}, \{1 + m^{(-1)} + q/m, 1 + m^{(-1)} + q/m\}, -((f*x^m)/e)] - b*k*m*Log[c*x^n] - b*k*m*q*Log[c*x^n] + k*m*Hypergeometric2F1[1, (1 + q)/m, (1 + m + q)/m, -((f*x^m)/e)]*(a - b*n + a*q + b*(1 + q)*Log[c*x^n]) + a*Log[d*(e + f*x^m)^k] - b*n*Log[d*(e + f*x^m)^k] + 2*a*q*Log[d*(e + f*x^m)^k] - b*n*q*Log[d*(e + f*x^m)^k] + a*q^2*Log[d*(e + f*x^m)^k] + b*Log[c*x^n]*Log[d*(e + f*x^m)^k] + 2*b*q*Log[c*x^n]*Log[d*(e + f*x^m)^k] + b*q^2*Log[c*x^n]*Log[d*(e + f*x^m)^k]))/(1 + q)^3$

Integral number [144]

$$\int x^2(a + b \log(cx^n)) \log(d(e + fx^m)^k) dx$$

[B] time = 0.152851 (sec), size = 292 ,normalized size = 11.23

$$x^3 \left(-6bekmn - 2bekm^2n + 9afkx^m \operatorname{Hypergeometric2F1} \left(1, \frac{3+m}{m}, 2 + \frac{3}{m}, -\frac{fx^m}{e} \right) + bek(3+m)n {}_3F_2 \right)$$

[In] Integrate[x^2*(a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k],x]

output $-1/27*(x^3*(-6*b*e*k*m*n - 2*b*e*k*m^2*n + 9*a*f*k*m*x^m*Hypergeometric2F1[1, (3 + m)/m, 2 + 3/m, -((f*x^m)/e)] + b*e*k*m*(3 + m)*HypergeometricPFQ[\{1, 3/m, 3/m\}, \{1 + 3/m, 1 + 3/m\}, -((f*x^m)/e)] + b*e*k*m*(3 + m)*Hypergeometric2F1[1, 3/m, (3 + m)/m, -((f*x^m)/e)]*(n - 3*Log[c*x^n]) + 9*b*e*k*m*Log[c*x^n] + 3*b*e*k*m^2*Log[c*x^n] - 27*a*e*Log[d*(e + f*x^m)^k] - 9*a*e*m*Log[d*(e + f*x^m)^k] + 9*b*e*n*Log[d*(e + f*x^m)^k] + 3*b*e*m*n*Log[d*(e + f*x^m)^k] - 27*b*e*Log[c*x^n]*Log[d*(e + f*x^m)^k] - 9*b*e*m*Log[c*x^n]*Log[d*(e + f*x^m)^k)))/(e*(3 + m))$

Integral number [145]

$$\int x(a + b \log(cx^n)) \log(d(e + fx^m)^k) dx$$

[B] time = 0.136601 (sec), size = 292 ,normalized size = 12.17

$$x^2 \left(-4bekmn - 2bekm^2n + 4afkx^m \operatorname{Hypergeometric2F1} \left(1, \frac{2+m}{m}, 2 + \frac{2}{m}, -\frac{fx^m}{e} \right) + bek(2+m)n {}_3F_2 \right)$$

[In] Integrate[x*(a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k],x]

output
$$-1/8*(x^{2*(-4*b*e*k*m*n - 2*b*e*k*m^2*n + 4*a*f*k*m*x^m*Hypergeometric2F1[1, (2 + m)/m, 2 + 2/m, -((f*x^m)/e)] + b*e*k*m*(2 + m)*n*HypergeometricPFQ[{1, 2/m, 2/m}, {1 + 2/m, 1 + 2/m}, -((f*x^m)/e)] + b*e*k*m*(2 + m)*Hypergeometric2F1[1, 2/m, (2 + m)/m, -((f*x^m)/e)]*(n - 2*Log[c*x^n]) + 4*b*e*k*m*Log[c*x^n] + 2*b*e*k*m^2*Log[c*x^n] - 8*a*e*Log[d*(e + f*x^m)^k] - 4*a*e*m*Log[d*(e + f*x^m)^k] + 4*b*e*n*Log[d*(e + f*x^m)^k] + 2*b*e*m*n*Log[d*(e + f*x^m)^k] - 8*b*e*Log[c*x^n]*Log[d*(e + f*x^m)^k] - 4*b*e*m*Log[c*x^n]*Log[d*(e + f*x^m)^k]))/(e*(2 + m))$$

Integral number [146]

$$\int (a + b \log(cx^n)) \log(d(e + fx^m)^k) dx$$

[B] time = 0.152115 (sec), size = 165 ,normalized size = 7.17

$$bkmnx - kmx(a + b(-n \log(x) + \log(cx^n))) + x \left(bkmn - bkmn {}_3F_2 \left(1, \frac{1}{m}, \frac{1}{m}; 1 + \frac{1}{m}, 1 + \frac{1}{m}; -\frac{fx^m}{e} \right) \right)$$

[In] Integrate[(a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k],x]

output
$$b*k*m*n*x - k*m*x*(a + b*(-(n*Log[x]) + Log[c*x^n])) + x*(b*k*m*n - b*k*m*n*HypergeometricPFQ[{1, m^{-1}, m^{-1}}, {1 + m^{-1}, 1 + m^{-1}}, -((f*x^m)/e)] - b*k*m*n*Log[x] + k*m*Hypergeometric2F1[1, m^{-1}, 1 + m^{-1}, -((f*x^m)/e)]*(a - b*n + b*Log[c*x^n]) + a*Log[d*(e + f*x^m)^k] - b*n*Log[d*(e + f*x^m)^k] + b*Log[c*x^n]*Log[d*(e + f*x^m)^k])$$

Integral number [148]

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^m)^k)}{x^2} dx$$

[B] time = 0.125142 (sec), size = 282 ,normalized size = 10.85

$$2bekmn - 2bekm^2n + afkmx^m Hypergeometric2F1 \left(1, \frac{-1+m}{m}, 2 - \frac{1}{m}, -\frac{fx^m}{e} \right) + bek(-1 + m)mn {}_3F_2 \left(1, - \right)$$

[In] Integrate[((a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k])/x^2,x]

output $(2*b*e*k*m*n - 2*b*e*k*m^2*n + a*f*k*m*x^m*Hypergeometric2F1[1, (-1 + m)/m, 2 - m^{(-1)}, -((f*x^m)/e)] + b*e*k*(-1 + m)*m*n*HypergeometricPFQ[{1, -m^{(-1)}, -m^{(-1)}}, \{1 - m^{(-1)}, 1 - m^{(-1)}\}, -((f*x^m)/e)] + b*e*k*m*Log[c*x^n] - b*e*k*m^2*Log[c*x^n] + b*e*k*(-1 + m)*m*Hypergeometric2F1[1, -m^{(-1)}, (-1 + m)/m, -((f*x^m)/e)]*(n + Log[c*x^n]) + a*e*Log[d*(e + f*x^m)^k] - a*e*m*Log[d*(e + f*x^m)^k] + b*e*n*Log[d*(e + f*x^m)^k] - b*e*m*n*Log[d*(e + f*x^m)^k] + b*e*Log[c*x^n]*Log[d*(e + f*x^m)^k] - b*e*m*Log[c*x^n]*Log[d*(e + f*x^m)^k]/(e*(-1 + m)*x)$

Integral number [149]

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^m)^k)}{x^3} dx$$

[B] time = 0.128627 (sec), size = 292 ,normalized size = 11.23

$$4bekmn - 2bekm^2n + 4afkmx^m \text{Hypergeometric2F1}\left(1, \frac{-2+m}{m}, 2 - \frac{2}{m}, -\frac{fx^m}{e}\right) + bek(-2 + m)mn {}_3F_2\left(1, -\frac{2+m}{m}, -\frac{2}{m}, -\frac{fx^m}{e}\right)$$

[In] Integrate[((a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k])/x^3,x]

output $(4*b*e*k*m*n - 2*b*e*k*m^2*n + 4*a*f*k*m*x^m*Hypergeometric2F1[1, (-2 + m)/m, 2 - 2/m, -((f*x^m)/e)] + b*e*k*(-2 + m)*m*n*HypergeometricPFQ[{1, -2/m, -2/m}, \{1 - 2/m, 1 - 2/m\}, -((f*x^m)/e)] + 4*b*e*k*m*Log[c*x^n] - 2*b*e*k*m^2*Log[c*x^n] + b*e*k*(-2 + m)*m*Hypergeometric2F1[1, -2/m, (-2 + m)/m, -((f*x^m)/e)]*(n + 2*Log[c*x^n]) + 8*a*e*Log[d*(e + f*x^m)^k] - 4*a*e*m*Log[d*(e + f*x^m)^k] + 4*b*e*n*Log[d*(e + f*x^m)^k] - 2*b*e*m*n*Log[d*(e + f*x^m)^k] + 8*b*e*Log[c*x^n]*Log[d*(e + f*x^m)^k] - 4*b*e*m*Log[c*x^n]*Log[d*(e + f*x^m)^k]/(8*e*(-2 + m)*x^2)$

Integral number [220]

$$\int -(dx)^m (a + b \log(cx^n)) \log(1 - ex^q) dx$$

[B] time = 0.296332 (sec), size = 266 ,normalized size = 10.23

$$x(dx)^m \left(-aq - amq + 2bnq - bnq {}_3F_2\left(1, \frac{1}{q} + \frac{m}{q}, \frac{1}{q} + \frac{m}{q}; 1 + \frac{1}{q} + \frac{m}{q}, 1 + \frac{1}{q} + \frac{m}{q}; ex^q\right) - bq \log(cx^n) - bnq \log(1 - ex^q)\right)$$

[In] Integrate[-((d*x)^m*(a + b*Log[c*x^n])*Log[1 - e*x^q]),x]

output

-((x*(d*x)^m*(-(a*q) - a*m*q + 2*b*n*q - b*n*q*HypergeometricPFQ[{1, q^(-1) + m/q, q^(-1) + m/q}, {1 + q^(-1) + m/q, 1 + q^(-1) + m/q}, e*x^q] - b*q*Log[c*x^n] - b*m*q*Log[c*x^n] + q*Hypergeometric2F1[1, (1 + m)/q, (1 + m + q)/q, e*x^q]*(a + a*m - b*n + b*(1 + m)*Log[c*x^n]) + a*Log[1 - e*x^q] + 2*a*m*Log[1 - e*x^q] + a*m^2*Log[1 - e*x^q] - b*n*Log[1 - e*x^q] - b*m*n*Log[1 - e*x^q] + b*Log[c*x^n]*Log[1 - e*x^q] + 2*b*m*Log[c*x^n]*Log[1 - e*x^q] + b*m^2*Log[c*x^n]*Log[1 - e*x^q]))/(1 + m)^3)

4.3.2 Maple

Integral number [221]

$$\int (dx)^m (a + b \log(cx^n)) \text{PolyLog}(2, ex^q) dx$$

[B] time = 0.089 (sec), size = 867 ,normalized size = 37.7

$$(dx)^m x^{-m} (-e)^{-\frac{m}{q} - \frac{1}{q}} a \left(-\frac{q^2 x^{1+m} (-e)^{\frac{m}{q} + \frac{1}{q}} \ln(1 - ex^q)}{(1+m)^2} - \frac{q x^{1+m} (-e)^{\frac{m}{q} + \frac{1}{q}} \text{Li}_2(ex^q)}{1+m} - \frac{q^2 x^{1+m+q} (-e)^{\frac{m}{q} + \frac{1}{q}} \Phi\left(ex^q, 1, \frac{1+m+q}{q}\right)}{(1+m)^2} \right)$$

q

[In] int((d*x)^m*(a+b*ln(c*x^n))*polylog(2,e*x^q),x)

output

```

-(d*x)^m*x^(-m)*(-e)^(-m/q-1/q)*a/q*(-q^2*x^(1+m)*(-e)^(m/q+1/q)/(1+m)^2*ln(1-
e*x^q)-q*x^(1+m)*(-e)^(m/q+1/q)/(1+m)*polylog(2,e*x^q)-q^2*x^(1+m+q)*e*(-e)^(m
/q+1/q)/(1+m)^2*LerchPhi(e*x^q,1,(1+m+q)/q))- (d*x)^m*x^(-m)*(-e)^(-m/q-1/q)*b*
ln(c)/q*(-q^2*x^(1+m)*(-e)^(m/q+1/q)/(1+m)^2*ln(1-e*x^q)-q*x^(1+m)*(-e)^(m/q+1
/q)/(1+m)*polylog(2,e*x^q)-q^2*x^(1+m+q)*e*(-e)^(m/q+1/q)/(1+m)^2*LerchPhi(e*x
^q,1,(1+m+q)/q))+((-e)^(-m/q-1/q)*ln(-e)/q^2*(d*x)^m*x^(-m)*b*n*(-q^2*x^m*(-e)
^(m/q+1/q)/(1+m)^2*ln(1-e*x^q)-q*x^m*(-e)^(m/q+1/q)/(1+m)*polylog(2,e*x^q)-q^2
*x^(q+m)*e*(-e)^(m/q+1/q)/(1+m)^2*LerchPhi(e*x^q,1,(1+m+q)/q))-(-e)^(-m/q-1/q)
*(d*x)^m*x^(-m)*b*n/q*(-q^2*x^m*(-e)^(m/q+1/q)*ln(x)/(1+m)^2*ln(1-e*x^q)-q*x^m
*(-e)^(m/q+1/q)*ln(-e)/(1+m)^2*ln(1-e*x^q)+2*q^2*x^m*(-e)^(m/q+1/q)/(1+m)^3*ln
(1-e*x^q)-q*x^m*(-e)^(m/q+1/q)*ln(x)/(1+m)*polylog(2,e*x^q)-x^m*(-e)^(m/q+1/q)
*ln(-e)/(1+m)*polylog(2,e*x^q)+q*x^m*(-e)^(m/q+1/q)/(1+m)^2*polylog(2,e*x^q)-q
^2*x^(q+m)*e*(-e)^(m/q+1/q)*ln(x)/(1+m)^2*LerchPhi(e*x^q,1,(1+m+q)/q)-q*x^(q+m)
)*e*(-e)^(m/q+1/q)*ln(-e)/(1+m)^2*LerchPhi(e*x^q,1,(1+m+q)/q)+2*q^2*x^(q+m)*e*
(-e)^(m/q+1/q)/(1+m)^3*LerchPhi(e*x^q,1,(1+m+q)/q)+q*x^(q+m)*e*(-e)^(m/q+1/q)/
(1+m)^2*LerchPhi(e*x^q,2,(1+m+q)/q))*x

```

4.4 Test file Number [63]

4.4.1 Mathematica

Integral number [98]

$$\int x^2 \log^3 (c(a + bx^2)^p) dx$$

[B] time = 3.12679 (sec), size = 909 ,normalized size = 50.5

$$\frac{2apx(-p \log(a + bx^2) + \log(c(a + bx^2)^p))^2}{b} - \frac{2a^{3/2}p \arctan\left(\frac{\sqrt{bx}}{\sqrt{a}}\right)(-p \log(a + bx^2) + \log(c(a + bx^2)^p))}{b^{3/2}}$$

[In] Integrate[x^2*Log[c*(a + b*x^2)^p]^3,x]

output $(2*a*p*x*(-(p*\text{Log}[a + b*x^2]) + \text{Log}[c*(a + b*x^2)^p])^2)/b - (2*a^{(3/2)}*p*\text{ArcTan}[(\text{Sqrt}[b]*x)/\text{Sqrt}[a]]*(-(p*\text{Log}[a + b*x^2]) + \text{Log}[c*(a + b*x^2)^p])^2)/b^{(3/2)} + p*x^3*\text{Log}[a + b*x^2]*(-(p*\text{Log}[a + b*x^2]) + \text{Log}[c*(a + b*x^2)^p])^2 + (x^3*(-(p*\text{Log}[a + b*x^2]) + \text{Log}[c*(a + b*x^2)^p])^2*(-2*p - p*\text{Log}[a + b*x^2] + \text{Log}[c*(a + b*x^2)^p]))/3 + 3*p^2*(-(p*\text{Log}[a + b*x^2]) + \text{Log}[c*(a + b*x^2)^p])*((x^3*\text{Log}[a + b*x^2]^2)/3 - (4*((9*I)*a^{(3/2)}*\text{ArcTan}[(\text{Sqrt}[b]*x)/\text{Sqrt}[a]]^2 + 3*a^{(3/2)}*\text{ArcTan}[(\text{Sqrt}[b]*x)/\text{Sqrt}[a]]*(-8 + 6*\text{Log}[(2*\text{Sqrt}[a])/(\text{Sqrt}[a] + I*\text{Sqrt}[b]*x)] + 3*\text{Log}[a + b*x^2]) + \text{Sqrt}[b]*x*(24*a - 2*b*x^2 + (-9*a + 3*b*x^2)*\text{Log}[a + b*x^2]) + (9*I)*a^{(3/2)}*\text{PolyLog}[2, (I*\text{Sqrt}[a] + \text{Sqrt}[b]*x)/((-I)*\text{Sqrt}[a] + \text{Sqrt}[b]*x)])))/(27*b^{(3/2)}) + (p^3*(416*\text{Sqrt}[-a]*a^{(3/2)}*\text{Sqrt}[(b*x^2)/(a + b*x^2)]*\text{Sqrt}[a + b*x^2]*\text{ArcSin}[\text{Sqrt}[a]/\text{Sqrt}[a + b*x^2]] + (2*\text{Sqrt}[-a]*b*x^2*(624*a - 16*b*x^2 + (-288*a + 24*b*x^2)*\text{Log}[a + b*x^2] + 18*(3*a - b*x^2)*\text{Log}[a + b*x^2]^2 + 9*b*x^2*\text{Log}[a + b*x^2]^3))/3 + 36*\text{Sqrt}[-a]*a^{(3/2)}*\text{Sqrt}[(b*x^2)/(a + b*x^2)]*(8*\text{Sqrt}[a]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2, 1/2\}, \{3/2, 3/2, 3/2\}, a/(a + b*x^2)] + \text{Log}[a + b*x^2]*(4*\text{Sqrt}[a]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2\}, \{3/2, 3/2\}, a/(a + b*x^2)] + \text{Sqrt}[a + b*x^2]*\text{ArcSin}[\text{Sqrt}[a]/\text{Sqrt}[a + b*x^2]]*\text{Log}[a + b*x^2])) - 48*a^2*(4*\text{Sqrt}[b*x^2]*\text{ArcTanh}[\text{Sqrt}[b*x^2]/\text{Sqrt}[-a]]*(\text{Log}[a + b*x^2] - \text{Log}[1 + (b*x^2)/a]) - \text{Sqrt}[-a]*\text{Sqrt}[-((b*x^2)/a)]*(\text{Log}[1 + (b*x^2)/a]^2 - 4*\text{Log}[1 + (b*x^2)/a]*\text{Log}[(1 + \text{Sqrt}[-((b*x^2)/a)])/2] + 2*\text{Log}[(1 + \text{Sqrt}[-((b*x^2)/a)])/2]^2 - 4*\text{PolyLog}[2, 1/2 - \text{Sqrt}[-((b*x^2)/a)]/2])))))/(18*\text{Sqrt}[-...$

Integral number [99]

$$\int \log^3(c(a + bx^2)^p) dx$$

[B] time = 2.66678 (sec), size = 789 ,normalized size = 56.36

$$\frac{6\sqrt{ap} \arctan\left(\frac{\sqrt{bx}}{\sqrt{a}}\right) \left(-p \log(a + bx^2) + \log(c(a + bx^2)^p)\right)^2}{\sqrt{b}} + 3px \log(a + bx^2) \left(-p \log(a + bx^2) + \log(c(a + bx^2)^p)\right)$$

[In] Integrate[Log[c*(a + b*x^2)^p]^3,x]

output

```
(6*Sqrt[a]*p*ArcTan[(Sqrt[b]*x)/Sqrt[a]]*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2)/Sqrt[b] + 3*p*x*Log[a + b*x^2]*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2 + x*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2*(-6*p - p*Log[a + b*x^2] + Log[c*(a + b*x^2)^p]) - (3*p^2*(p*Log[a + b*x^2] - Log[c*(a + b*x^2)^p])*((4*I)*Sqrt[a]*ArcTan[(Sqrt[b]*x)/Sqrt[a]]^2 + 4*Sqrt[a]*ArcTan[(Sqrt[b]*x)/Sqrt[a]]*(-2 + 2*Log[(2*Sqrt[a])/(Sqrt[a] + I*Sqrt[b]*x)] + Log[a + b*x^2]) + Sqrt[b]*x*(8 - 4*Log[a + b*x^2] + Log[a + b*x^2]^2) + (4*I)*Sqrt[a]*PolyLog[2, (I*Sqrt[a] + Sqrt[b]*x)/((-I)*Sqrt[a] + Sqrt[b]*x)]))/Sqrt[b] + (p^3*(-48*Sqrt[-a^2]*Sqrt[(b*x^2)/(a + b*x^2)]*Sqrt[a + b*x^2]*ArcSin[Sqrt[a]/Sqrt[a + b*x^2]] + Sqrt[-a]*b*x^2*(-48 + 24*Log[a + b*x^2] - 6*Log[a + b*x^2]^2 + Log[a + b*x^2]^3) - 6*Sqrt[-a^2]*Sqrt[(b*x^2)/(a + b*x^2)]*(8*Sqrt[a]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, a/(a + b*x^2)] + Log[a + b*x^2]*(4*Sqrt[a]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2}, a/(a + b*x^2)] + Sqrt[a + b*x^2]*ArcSin[Sqrt[a]/Sqrt[a + b*x^2]]*Log[a + b*x^2])) + 24*a*Sqrt[b*x^2]*ArcTanh[Sqrt[b*x^2]/Sqrt[-a]]*(Log[a + b*x^2] - Log[1 + (b*x^2)/a]) + 6*(-a)^(3/2)*Sqrt[-((b*x^2)/a)]*(Log[1 + (b*x^2)/a]^2 - 4*Log[1 + (b*x^2)/a]*Log[(1 + Sqrt[-((b*x^2)/a)])/2] + 2*Log[(1 + Sqrt[-((b*x^2)/a)])/2]^2 - 4*PolyLog[2, 1/2 - Sqrt[-((b*x^2)/a)])/2])))/(Sqrt[-a]*b*x)
```

Integral number [100]

$$\int \frac{\log^3(c(a + bx^2)^p)}{x^2} dx$$

[C] time = 1.00436 (sec), size = 505 ,normalized size = 28.06

$$\frac{p^3 \left(-96\sqrt{a}\sqrt{1 - \frac{a}{a+bx^2}} {}_4F_3\left(\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}; \frac{3}{2}, \frac{3}{2}, \frac{3}{2}; \frac{a}{a+bx^2}\right) - 48\sqrt{a}\sqrt{1 - \frac{a}{a+bx^2}} {}_3F_2\left(\frac{1}{2}, \frac{1}{2}, \frac{1}{2}; \frac{3}{2}, \frac{3}{2}; \frac{a}{a+bx^2}\right) \log(a + bx^2) \right)}{2\sqrt{a}x}$$

[In] Integrate[Log[c*(a + b*x^2)^p]^3/x^2,x]

output $(p^3(-96\sqrt{a}\sqrt{1 - a/(a + bx^2)})\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2, 1/2\}, \{3/2, 3/2, 3/2\}, a/(a + bx^2)] - 48\sqrt{a}\sqrt{1 - a/(a + bx^2)}\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2\}, \{3/2, 3/2\}, a/(a + bx^2)]\text{Log}[a + bx^2] - 2\text{Log}[a + bx^2]^2(6\sqrt{a + bx^2}\sqrt{1 - a/(a + bx^2)}\text{ArcSin}[\sqrt{a}/\sqrt{a + bx^2}] + \sqrt{a}\text{Log}[a + bx^2]))/(2\sqrt{a}x) + (6\sqrt{b}p\text{ArcTan}[(\sqrt{b}x)/\sqrt{a}] * (-p\text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p])^2/\sqrt{a} - (3p\text{Log}[a + bx^2] * (-p\text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p])^2/x - (-p\text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p])^3/x + 3p^2 * (-p\text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p]) * (-\text{Log}[a + bx^2]^2/x + (4\sqrt{b} * (\text{ArcTan}[(\sqrt{b}x)/\sqrt{a}]) * (\text{I} * \text{ArcTan}[(\sqrt{b}x)/\sqrt{a}] + 2\text{Log}[(2\text{I})/(1 - (\sqrt{b}x)/\sqrt{a}])) + \text{Log}[a + bx^2]) + \text{I} * \text{PolyLog}[2, (\text{I}\sqrt{a} + \sqrt{b}x)/((-1)\sqrt{a} + \sqrt{b}x)])))/\sqrt{a}$

Integral number [101]

$$\int \frac{\log^3(c(a + bx^2)^p)}{x^4} dx$$

[B] time = 2.19457 (sec), size = 851 ,normalized size = 47.28

$$a^2(p \log(a + bx^2) - \log(c(a + bx^2)^p))^3 - 6abpx^2(-p \log(a + bx^2) + \log(c(a + bx^2)^p))^2 - 6\sqrt{ab^{3/2}}px^3 \text{ ar}$$

[In] Integrate[Log[c*(a + b*x^2)^p]^3/x^4,x]

output $(a^2*(p*\text{Log}[a + b*x^2] - \text{Log}[c*(a + b*x^2)^p])^3 - 6*a*b*p*x^2*(-(p*\text{Log}[a + b*x^2]) + \text{Log}[c*(a + b*x^2)^p])^2 - 6*\text{Sqrt}[a]*b^{(3/2)}*p*x^3*\text{ArcTan}[(\text{Sqrt}[b]*x)/\text{Sqrt}[a]]*(-(p*\text{Log}[a + b*x^2]) + \text{Log}[c*(a + b*x^2)^p])^2 - 3*a^2*p*\text{Log}[a + b*x^2]*(-(p*\text{Log}[a + b*x^2]) + \text{Log}[c*(a + b*x^2)^p])^2 + 3*\text{Sqrt}[a]*p^2*(p*\text{Log}[a + b*x^2] - \text{Log}[c*(a + b*x^2)^p])*(a^{(3/2)}*\text{Log}[a + b*x^2]^2 + 4*b*x^2*(I*\text{Sqrt}[b]*x*\text{ArcTan}[(\text{Sqrt}[b]*x)/\text{Sqrt}[a]]^2 + \text{Sqrt}[a]*\text{Log}[a + b*x^2] + \text{Sqrt}[b]*x*\text{ArcTan}[(\text{Sqrt}[b]*x)/\text{Sqrt}[a]]*(-2 + 2*\text{Log}[(2*\text{Sqrt}[a])/(\text{Sqrt}[a] + I*\text{Sqrt}[b]*x)] + \text{Log}[a + b*x^2]) + I*\text{Sqrt}[b]*x*\text{PolyLog}[2, (I*\text{Sqrt}[a] + \text{Sqrt}[b]*x)/((-I)*\text{Sqrt}[a] + \text{Sqrt}[b]*x)]) + p^3*(48*a*b*x^2*\text{Sqrt}[(b*x^2)/(a + b*x^2)]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2, 1/2\}, \{3/2, 3/2, 3/2\}, a/(a + b*x^2)] + 24*\text{Sqrt}[-a]*(b*x^2)^{(3/2)}*\text{ArcTanh}[\text{Sqrt}[b*x^2]/\text{Sqrt}[-a]]*\text{Log}[a + b*x^2] + 24*a*b*x^2*\text{Sqrt}[(b*x^2)/(a + b*x^2)]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2\}, \{3/2, 3/2\}, a/(a + b*x^2)]*\text{Log}[a + b*x^2] - 6*a*b*x^2*\text{Log}[a + b*x^2]^2 + 6*\text{Sqrt}[a]*((b*x^2)/(a + b*x^2))^{(3/2)}*(a + b*x^2)^{(3/2)}*\text{ArcSin}[\text{Sqrt}[a]/\text{Sqrt}[a + b*x^2]]*\text{Log}[a + b*x^2]^2 - a^2*\text{Log}[a + b*x^2]^3 - 24*\text{Sqrt}[-a]*(b*x^2)^{(3/2)}*\text{ArcTanh}[\text{Sqrt}[b*x^2]/\text{Sqrt}[-a]]*\text{Log}[1 + (b*x^2)/a] - 6*a^2*(-((b*x^2)/a))^{(3/2)}*\text{Log}[1 + (b*x^2)/a]^2 + 24*a^2*(-((b*x^2)/a))^{(3/2)}*\text{Log}[1 + (b*x^2)/a]*\text{Log}[(1 + \text{Sqrt}[-((b*x^2)/a)])/2] - 12*a^2*(-((b*x^2)/a))^{(3/2)}*\text{Log}[(1 + \text{Sqrt}[-((b*x^2)/a)])/2]^2 + 24*a^2*(-((b*x^2)/a))^{(3/2)}*\text{PolyLog}[2, 1/2 - \text{Sqrt}[-((b*x^2)/a)]/2])/(3*a^2*x^3)$

Integral number [158]

$$\int (fx)^m \log^3 (c(d + ex^2)^p) dx$$

[B] time = 1.8218 (sec), size = 994 ,normalized size = 49.7

$$(fx)^m \left((1 + m)p^3 x^2 \log^3 (d + ex^2) + \frac{6p^3 \left(-\frac{ex^2}{d}\right)^{\frac{1-m}{2}} \left(-((1+m)(d+ex^2) {}_4F_3\left(1,1,1,\frac{1}{2}-\frac{m}{2};2,2,2;1+\frac{ex^2}{d}\right)\right) + (1+m)(d+ex^2) {}_3F_2}{e}$$

[In] Integrate[(f*x)^m*Log[c*(d + e*x^2)^p]^3,x]

```
output ((f*x)^m*((1 + m)*p^3*x^2*Log[d + e*x^2]^3 + (6*p^3*(-((e*x^2)/d))^((1 - m)/2)
*(-((1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1, 1/2 - m/2}, {2, 2, 2}, 1 +
(e*x^2)/d]) + (1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1/2 - m/2}, {2, 2},
1 + (e*x^2)/d]*Log[d + e*x^2] + d*(-1 + (-((e*x^2)/d))^((1 + m)/2))*Log[d +
e*x^2]^2))/e + (6*d*(1 + m)*p^3*((e*x^2)/(d + e*x^2))^(1/2 - m/2)*(8*Hypergeom
etricPFQ[{1/2 - m/2, 1/2 - m/2, 1/2 - m/2, 1/2 - m/2}, {3/2 - m/2, 3/2 - m/2,
3/2 - m/2}, d/(d + e*x^2)] + (-1 + m)*Log[d + e*x^2]*(-4*HypergeometricPFQ[{1/
2 - m/2, 1/2 - m/2, 1/2 - m/2}, {3/2 - m/2, 3/2 - m/2}, d/(d + e*x^2)] + (-1 +
m)*Hypergeometric2F1[1/2 - m/2, 1/2 - m/2, 3/2 - m/2, d/(d + e*x^2)]*Log[d +
e*x^2])))/(e*(-1 + m)^3) - (3*p^2*(-((e*x^2)/d))^((1 - m)/2)*(-((1 + m)*(d +
e*x^2)*HypergeometricPFQ[{1, 1, 1, 1/2 - m/2}, {2, 2, 2}, 1 + (e*x^2)/d]) + (1
+ m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1/2 - m/2}, {2, 2}, 1 + (e*x^2)/d]*L
og[d + e*x^2] + d*(-1 + (-((e*x^2)/d))^((1 + m)/2))*Log[d + e*x^2]^2*(-(p*Log
[d + e*x^2]) + Log[c*(d + e*x^2)^p]))/e - (3*m*p^2*(-((e*x^2)/d))^((1 - m)/2)*
(-((1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1, 1/2 - m/2}, {2, 2, 2}, 1 +
(e*x^2)/d]) + (1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1/2 - m/2}, {2, 2},
1 + (e*x^2)/d]*Log[d + e*x^2] + d*(-1 + (-((e*x^2)/d))^((1 + m)/2))*Log[d + e
*x^2]^2*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p]))/e + (3*p*x^2*(-2*e*x^2*
Hypergeometric2F1[1, (3 + m)/2, (5 + m)/2, -(e*x^2)/d] + d*(3 + m)*Log[d + e
*x^2])*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/(d*(3 + m)) + (3*m*p...
```

Integral number [159]

$$\int (fx)^m \log^2 (c(d + ex^2)^p) dx$$

[B] time = 0.528109 (sec), size = 466 ,normalized size = 23.3

$$(fx)^m \left(4p^2x \left(\frac{2ex^2 \text{Hypergeometric2F1}\left(1, \frac{3+m}{2}, \frac{5+m}{2}, -\frac{ex^2}{d}\right)}{d(3+m)} - \log(d + ex^2) \right) + (1 + m)p^2x \log^2(d + ex^2) + \frac{4d(1+m)}{d(3+m)} \right)$$

[In] Integrate[(f*x)^m*Log[c*(d + e*x^2)^p]^2,x]

output

```
((f*x)^m*(4*p^2*x*((2*e*x^2*Hypergeometric2F1[1, (3 + m)/2, (5 + m)/2, -((e*x^2)/d)])/(d*(3 + m)) - Log[d + e*x^2]) + (1 + m)*p^2*x*Log[d + e*x^2]^2 + (4*d*(1 + m)*p^2*((e*x^2)/(d + e*x^2))^(1/2 - m/2)*(-2*HypergeometricPFQ[{1/2 - m/2, 1/2 - m/2, 1/2 - m/2}, {3/2 - m/2, 3/2 - m/2}, d/(d + e*x^2)] + (-1 + m)*Hypergeometric2F1[1/2 - m/2, 1/2 - m/2, 3/2 - m/2, d/(d + e*x^2)]*Log[d + e*x^2]))/(e*(-1 + m)^2*x) + (2*p*(2*e*x^3*Hypergeometric2F1[1, (3 + m)/2, (5 + m)/2, -((e*x^2)/d)] - d*(3 + m)*x*Log[d + e*x^2])*(p*Log[d + e*x^2] - Log[c*(d + e*x^2)^p]))/(d*(3 + m)) - (2*m*p*(-2*e*x^3*Hypergeometric2F1[1, (3 + m)/2, (5 + m)/2, -((e*x^2)/d)] + d*(3 + m)*x*Log[d + e*x^2])*(p*Log[d + e*x^2] - Log[c*(d + e*x^2)^p]))/(d*(3 + m)) + x*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2 + m*x*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/(1 + m)^2
```

Integral number [277]

$$\int (f + gx^2) \log^3 (c(d + ex^2)^p) dx$$

[B] time = 9.0714 (sec), size = 1772 ,normalized size = 80.55

result too large to display

[In] Integrate[(f + g*x^2)*Log[c*(d + e*x^2)^p]^3,x]

output

```
(2*d*g*p*x*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/e + (6*Sqrt[d]*f*p*
ArcTan[(Sqrt[e]*x)/Sqrt[d]]*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/Sqr
rt[e] - (2*d^(3/2)*g*p*ArcTan[(Sqrt[e]*x)/Sqrt[d]]*(-(p*Log[d + e*x^2]) + Log[
c*(d + e*x^2)^p])^2)/e^(3/2) + 3*f*p*x*Log[d + e*x^2]*(-(p*Log[d + e*x^2]) + L
og[c*(d + e*x^2)^p])^2 + g*p*x^3*Log[d + e*x^2]*(-(p*Log[d + e*x^2]) + Log[c*(
d + e*x^2)^p])^2 + f*x*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2*(-6*p -
p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p]) + (g*x^3*(-(p*Log[d + e*x^2]) + Log[c*
(d + e*x^2)^p])^2*(-2*p - p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p]))/3 + 3*f*p
^2*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])*(x*Log[d + e*x^2]^2 - (4*((-I)
)*Sqrt[d]*ArcTan[(Sqrt[e]*x)/Sqrt[d]]^2 + Sqrt[e]*x*(-2 + Log[d + e*x^2]) - Sqr
t[d]*ArcTan[(Sqrt[e]*x)/Sqrt[d]]*(-2 + 2*Log[(2*Sqrt[d])/(Sqrt[d] + I*Sqrt[e]*
x)] + Log[d + e*x^2]) - I*Sqrt[d]*PolyLog[2, (I*Sqrt[d] + Sqrt[e]*x)/((-I)*Sqr
t[d] + Sqrt[e]*x)]))/Sqrt[e]) + 3*g*p^2*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^
2)^p])*(x^3*Log[d + e*x^2]^2)/3 - (4*((9*I)*d^(3/2)*ArcTan[(Sqrt[e]*x)/Sqrt[d
]]^2 + 3*d^(3/2)*ArcTan[(Sqrt[e]*x)/Sqrt[d]]*(-8 + 6*Log[(2*Sqrt[d])/(Sqrt[d]
+ I*Sqrt[e]*x)] + 3*Log[d + e*x^2]) + Sqrt[e]*x*(24*d - 2*e*x^2 + (-9*d + 3*e*
x^2)*Log[d + e*x^2]) + (9*I)*d^(3/2)*PolyLog[2, (I*Sqrt[d] + Sqrt[e]*x)/((-I)*
Sqrt[d] + Sqrt[e]*x)]))/((27*e^(3/2))) + (g*p^3*(416*Sqrt[-d]*d^(3/2)*Sqrt[d +
e*x^2]*Sqrt[1 - d/(d + e*x^2)]*ArcSin[Sqrt[d]/Sqrt[d + e*x^2]] + 36*Sqrt[-d]*d
^(3/2)*Sqrt[1 - d/(d + e*x^2)]*(8*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2,...
```

Integral number [298]

$$\int (f + gx^3)^2 \log^3 (c(d + ex^2)^p) dx$$

[B] time = 8.70025 (sec), size = 2385 ,normalized size = 99.38

Result too large to show

[In] Integrate[(f + g*x^3)^2*Log[c*(d + e*x^2)^p]^3,x]

output $(f*g*p^3*(d + e*x^2)*(-8*d*(-6 + 6*Log[d + e*x^2] - 3*Log[d + e*x^2]^2 + Log[d + e*x^2]^3) + (d + e*x^2)*(-3 + 6*Log[d + e*x^2] - 6*Log[d + e*x^2]^2 + 4*Log[d + e*x^2]^3)))/(8*e^2) + 6*f*g*p^2*((x^4*Log[d + e*x^2]^2)/4 - e*((3*d*x^2)/(4*e^2) - x^4/(8*e) - (3*d^2*Log[d + e*x^2])/(4*e^3) - (d*x^2*Log[d + e*x^2])/(2*e^2) + (x^4*Log[d + e*x^2])/(4*e) + (d^2*Log[d + e*x^2]^2)/(4*e^3)))*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p]) + (3*d*f*g*p*x^2*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/(2*e) - (2*d^2*g^2*p*x^3*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/(7*e^2) + (6*d*g^2*p*x^5*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/(35*e) - (3*d^2*f*g*p*Log[d + e*x^2]*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/(2*e^2) + (3*p*x*(14*f^2 + 7*f*g*x^3 + 2*g^2*x^6)*Log[d + e*x^2]*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/14 + (f*g*x^4*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2*(-3*p + 2*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])))/4 + (g^2*x^7*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2*(-6*p + 7*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])))/49 + (x*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2*(-42*e^3*f^2*p + 6*d^3*g^2*p + 7*e^3*f^2*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])))/(7*e^3) - (6*ArcTan[(Sqrt[e]*x)/Sqrt[d]]*(-7*d*e^3*f^2*p*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2 + d^4*g^2*p*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2))/(7*Sqrt[d]*e^(7/2)) + 3*f^2*p^2*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])*(x*Log[d + e*x^2]^2 - (4*((-1)*Sqrt[d]*ArcTan[(Sqrt[e]*x)/Sqrt[d]]^2 + Sqrt[e]*x*(-2 + Log[d + e*x^2]...$

Integral number [299]

$$\int (f + gx^3) \log^3 (c(d + ex^2)^p) dx$$

[B] time = 1.29533 (sec), size = 1051 ,normalized size = 47.77

$$\frac{1}{4}gx^4 \log^3 (c(d + ex^2)^p) + \frac{6\sqrt{d}fp \arctan\left(\frac{\sqrt{ex}}{\sqrt{d}}\right) (-p \log(d + ex^2) + \log(c(d + ex^2)^p))^2}{\sqrt{e}} + 3fpx \log(d + e$$

[In] Integrate[(f + g*x^3)*Log[c*(d + e*x^2)^p]^3,x]

output

```
(g*x^4*Log[c*(d + e*x^2)^p]^3)/4 + (6*sqrt[d]*f*p*ArcTan[(sqrt[e]*x)/sqrt[d]]*
(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2)/sqrt[e] + 3*f*p*x*Log[d + e*x^
2]*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2 + f*x*(-(p*Log[d + e*x^2]) +
Log[c*(d + e*x^2)^p])^2*(-6*p - p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p]) - (3
*g*p*((-7*d*p^2*x^2)/(2*e) + (p^2*x^4)/4 + (d^2*p^2*Log[d + e*x^2])/(2*e^2) +
(3*d^2*p*Log[c*(d + e*x^2)^p])/e^2 + (3*d*p*x^2*Log[c*(d + e*x^2)^p])/e - (p*x
^4*Log[c*(d + e*x^2)^p])/2 - (3*d^2*Log[c*(d + e*x^2)^p]^2)/(2*e^2) - (d*x^2*L
og[c*(d + e*x^2)^p]^2)/e + (x^4*Log[c*(d + e*x^2)^p]^2)/2 + (d^2*Log[c*(d + e
x^2)^p]^3)/(3*e^2*p))/4 + 3*f*p^2*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p
])*(x*Log[d + e*x^2]^2 - (4*((-I)*sqrt[d]*ArcTan[(sqrt[e]*x)/sqrt[d]]^2 + sqrt[
e]*x*(-2 + Log[d + e*x^2]) - sqrt[d]*ArcTan[(sqrt[e]*x)/sqrt[d]]*(-2 + 2*Log[(
2*sqrt[d])/(sqrt[d] + I*sqrt[e]*x)] + Log[d + e*x^2]) - I*sqrt[d]*PolyLog[2, (
I*sqrt[d] + sqrt[e]*x)/((-I)*sqrt[d] + sqrt[e]*x)]))/sqrt[e]) + (f*p^3*(-48*sq
rt[-d^2]*sqrt[d + e*x^2]*sqrt[1 - d/(d + e*x^2)]*ArcSin[sqrt[d]/sqrt[d + e*x^2
]] - 6*sqrt[-d^2]*sqrt[1 - d/(d + e*x^2)]*(8*sqrt[d]*HypergeometricPFQ[{1/2, 1
/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, d/(d + e*x^2)] + 4*sqrt[d]*HypergeometricPFQ[{
1/2, 1/2, 1/2}, {3/2, 3/2}, d/(d + e*x^2)]*Log[d + e*x^2] + sqrt[d + e*x^2]*Ar
cSin[sqrt[d]/sqrt[d + e*x^2]]*Log[d + e*x^2]^2) + sqrt[-d]*e*x^2*(-48 + 24*Log
[d + e*x^2] - 6*Log[d + e*x^2]^2 + Log[d + e*x^2]^3) + 24*d*sqrt[e*x^2]*ArcTan
h[sqrt[e*x^2]/sqrt[-d]]*(Log[d + e*x^2] - Log[(d + e*x^2)/d]) + 6*(-d)^(3/2...
```

Integral number [485]

$$\int x^2 \left(a + b \log \left(c \left(d + ex^{2/3} \right)^n \right) \right)^3 dx$$

[A] time = 7.79559 (sec), size = 1552 ,normalized size = 64.67

result too large to display

[In] Integrate[x^2*(a + b*Log[c*(d + e*x^(2/3))^n])^3,x]

output

```
(-2*b*d^4*n*x^(1/3)*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/e^4 + (2*b*d^3*n*x*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(3*e^3) - (2*b*d^2*n*x^(5/3)*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(5*e^2) + (2*b*d*n*x^(7/3)*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(7*e) + (2*b*d^(9/2)*n*ArcTan[(Sqrt[e]*x^(1/3))/Sqrt[d]]*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/e^(9/2) + b*n*x^3*Log[d + e*x^(2/3)]*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2 + (x^3*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2*(3*a - 2*b*n - 3*b*n*Log[d + e*x^(2/3)] + 3*b*Log[c*(d + e*x^(2/3))^n]))/9 - (b^3*n^3*(1094783760*d^(9/2)*Sqrt[d + e*x^(2/3)]*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]] - e*x^(2/3)*(-16*(68423985*d^4 - 4186770*d^3*e*x^(2/3) + 871542*d^2*e^2*x^(4/3) - 217125*d*e^3*x^2 + 42875*e^4*x^(8/3)) + 2520*(177345*d^4 - 26040*d^3*e*x^(2/3) + 9009*d^2*e^2*x^(4/3) - 3600*d*e^3*x^2 + 1225*e^4*x^(8/3))*Log[d + e*x^(2/3)] - 198450*(315*d^4 - 105*d^3*e*x^(2/3) + 63*d^2*e^2*x^(4/3) - 45*d*e^3*x^2 + 35*e^4*x^(8/3))*Log[d + e*x^(2/3)]^2 + 10418625*e^4*x^(8/3)*Log[d + e*x^(2/3)]^3 + 62511750*d^(9/2)*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]*(8*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, d/(d + e*x^(2/3))] + Log[d + e*x^(2/3)]*(4*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2}, d/(d + e*x^(2/3))] + Sqrt[d + e*x^(2/3)]*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]]*Log[d + e*x^(2/3)])) + 111727350*(-d)^(9/2)*(4...
```

Integral number [486]

$$\int \left(a + b \log \left(c \left(d + e x^{2/3} \right)^n \right) \right)^3 dx$$

[B] time = 5.89109 (sec), size = 1299 ,normalized size = 64.95

result too large to display

[In] Integrate[(a + b*Log[c*(d + e*x^(2/3))^n])^3,x]

output

```
(6*b*d*n*x^(1/3)*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/
e - (6*b*d^(3/2)*n*ArcTan[(Sqrt[e]*x^(1/3))/Sqrt[d]]*(a - b*n*Log[d + e*x^(2/3)
]) + b*Log[c*(d + e*x^(2/3))^n])^2/e^(3/2) + 3*b*n*x*Log[d + e*x^(2/3)]*(a -
b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2 + x*(a - b*n*Log[d + e*
x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2*(a - 2*b*n - b*n*Log[d + e*x^(2/3)] +
b*Log[c*(d + e*x^(2/3))^n]) + (b^2*n^2*x^(1/3)*(a - b*n*Log[d + e*x^(2/3)] +
b*Log[c*(d + e*x^(2/3))^n])*((-96*d^(3/2)*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]]
)/(Sqrt[d + e*x^(2/3)]*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]) - d*(104 - 48*Log[d +
e*x^(2/3)] + 9*Log[d + e*x^(2/3)]^2) + (d + e*x^(2/3))*(8 - 12*Log[d + e*x^(2
/3)] + 9*Log[d + e*x^(2/3)]^2) + (36*(-d)^(3/2)*ArcTanh[Sqrt[e*x^(2/3)]/Sqrt[-
d]]*(Log[d + e*x^(2/3)] - Log[1 + (e*x^(2/3))/d]))/Sqrt[e*x^(2/3)] + (9*d*(2*L
og[(1 + Sqrt[-((e*x^(2/3))/d]])/2]^2 - 4*Log[(1 + Sqrt[-((e*x^(2/3))/d]])/2]*L
og[1 + (e*x^(2/3))/d] + Log[1 + (e*x^(2/3))/d]^2 - 4*PolyLog[2, 1/2 - Sqrt[-((
e*x^(2/3))/d]])/2]))/Sqrt[-((e*x^(2/3))/d]))/(3*e) + (b^3*n^3*(624*d*e*x^(2/3)
- 16*e^2*x^(4/3) + 624*d^(3/2)*Sqrt[d + e*x^(2/3)]*Sqrt[(e*x^(2/3))/(d + e*x^
(2/3)])*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]] + 432*d^2*Sqrt[(e*x^(2/3))/(d + e*
x^(2/3)])*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, d/(d + e*x^
(2/3))] + 144*d^2*Sqrt[-((e*x^(2/3))/d)]*Log[(1 + Sqrt[-((e*x^(2/3))/d]])/2]^2
- 288*d*e*x^(2/3)*Log[d + e*x^(2/3)] + 24*e^2*x^(4/3)*Log[d + e*x^(2/3)] + 28
8*Sqrt[-d]*d*Sqrt[e*x^(2/3)]*ArcTanh[Sqrt[e*x^(2/3)]/Sqrt[-d]]*Log[d + e*x^...
```

Integral number [487]

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^3}{x^2} dx$$

[B] time = 6.62541 (sec), size = 1158 ,normalized size = 48.25

result too large to display

[In] Integrate[(a + b*Log[c*(d + e*x^(2/3))^n])^3/x^2,x]

output

```
(-6*b*e*n*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(d*x^(1/3)) - (6*b*e^(3/2)*n*ArcTan[(Sqrt[e]*x^(1/3))/Sqrt[d]]*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2/d^(3/2) - (3*b*n*Log[d + e*x^(2/3)]*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/x - (a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^3/x + (3*b^2*e*n^2*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])*(-16*Sqrt[d + e*x^(2/3)]*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]])/d^(3/2) - (8*Log[d + e*x^(2/3)]/d - (2*Log[d + e*x^(2/3)]^2)/(e*x^(2/3)) - (8*Sqrt[e*x^(2/3)]*ArcTanh[Sqrt[e*x^(2/3)]/Sqrt[-d]]*(Log[d + e*x^(2/3)] - Log[1 + (e*x^(2/3))/d]))/(-d)^(3/2) - (2*Sqrt[-((e*x^(2/3))/d)]*(2*Log[(1 + Sqrt[-((e*x^(2/3))/d)])]/2]^2 - 4*Log[(1 + Sqrt[-((e*x^(2/3))/d)])]/2]*Log[1 + (e*x^(2/3))/d] + Log[1 + (e*x^(2/3))/d]^2 - 4*PolyLog[2, 1/2 - Sqrt[-((e*x^(2/3))/d)]/2])/d)/(2*x^(1/3)) + (b^3*n^3*(48*Sqrt[-d^2]*e*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]*x^(2/3)*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, d/(d + e*x^(2/3))] - 12*d*Sqrt[-d^2]*(-((e*x^(2/3))/d))^(3/2)*Log[(1 + Sqrt[-((e*x^(2/3))/d)])]/2]^2 - 24*Sqrt[d]*(e*x^(2/3))^(3/2)*ArcTanh[Sqrt[e*x^(2/3)]/Sqrt[-d]]*Log[d + e*x^(2/3)] + 24*Sqrt[-d^2]*e*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]*x^(2/3)*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2}, d/(d + e*x^(2/3))]*Log[d + e*x^(2/3)] - 6*Sqrt[-d^2]*e*x^(2/3)*Log[d + e*x^(2/3)]^2 + 6*Sqrt[-d]*(d + e*x^(2/3))^(3/2)*((e*x^(2/3))/(d + e*x^(2/3)))^(3/2)*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]]*Log[d + e...
```

Integral number [488]

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^3}{x^4} dx$$

[B] time = 7.58333 (sec), size = 1385 ,normalized size = 57.71

result too large to display

[In] Integrate[(a + b*Log[c*(d + e*x^(2/3))^n])^3/x^4,x]

output $((-60*b*e*n*(a - b*n*\text{Log}[d + e*x^{(2/3)}] + b*\text{Log}[c*(d + e*x^{(2/3)})^n])^2)/(d*x^{(7/3)}) + (84*b*e^2*n*(a - b*n*\text{Log}[d + e*x^{(2/3)}] + b*\text{Log}[c*(d + e*x^{(2/3)})^n])^2)/(d^2*x^{(5/3)}) - (140*b*e^3*n*(a - b*n*\text{Log}[d + e*x^{(2/3)}] + b*\text{Log}[c*(d + e*x^{(2/3)})^n])^2)/(d^3*x) + (420*b*e^4*n*(a - b*n*\text{Log}[d + e*x^{(2/3)}] + b*\text{Log}[c*(d + e*x^{(2/3)})^n])^2)/(d^4*x^{(1/3)}) + (420*b*e^{(9/2)}*n*\text{ArcTan}[\text{Sqrt}[e]*x^{(1/3)}]/\text{Sqrt}[d])*(a - b*n*\text{Log}[d + e*x^{(2/3)}] + b*\text{Log}[c*(d + e*x^{(2/3)})^n])^2/d^{(9/2)}) - (210*b*n*\text{Log}[d + e*x^{(2/3)}]*(a - b*n*\text{Log}[d + e*x^{(2/3)}] + b*\text{Log}[c*(d + e*x^{(2/3)})^n])^2)/x^3 - (70*(a - b*n*\text{Log}[d + e*x^{(2/3)}] + b*\text{Log}[c*(d + e*x^{(2/3)})^n])^3)/x^3 - (2*b^3*n^3*(1376*e^3*(d + e*x^{(2/3)})^{(3/2)}*((e*x^{(2/3)})/(d + e*x^{(2/3)}))^{(3/2)}*x^2*\text{ArcSin}[\text{Sqrt}[d]/\text{Sqrt}[d + e*x^{(2/3)}]]) + \text{Sqrt}[d]*(16*e^3*(d - 15*e*x^{(2/3)})*x^2 + 8*(3*d^2*e^2*x^{(4/3)} - 12*d*e^3*x^2 + 71*e^4*x^{(8/3)})*\text{Log}[d + e*x^{(2/3)}] + (30*d^3*e*x^{(2/3)} - 42*d^2*e^2*x^{(4/3)} + 70*d*e^3*x^2 - 210*e^4*x^{(8/3)})*\text{Log}[d + e*x^{(2/3)}]^2 + 35*d^4*\text{Log}[d + e*x^{(2/3)}]^3) + 210*e^4*\text{Sqrt}[(e*x^{(2/3)})/(d + e*x^{(2/3)})]*x^{(8/3)}*(8*\text{Sqrt}[d]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2, 1/2\}, \{3/2, 3/2, 3/2\}, d/(d + e*x^{(2/3)})]) + \text{Log}[d + e*x^{(2/3)}]*(4*\text{Sqrt}[d]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2\}, \{3/2, 3/2\}, d/(d + e*x^{(2/3)})]) + \text{Sqrt}[d + e*x^{(2/3)}]*\text{ArcSin}[\text{Sqrt}[d]/\text{Sqrt}[d + e*x^{(2/3)}]])*\text{Log}[d + e*x^{(2/3)}])) + (352*d^{(3/2)}*e^4*x^{(8/3)}*(4*\text{Sqrt}[e*x^{(2/3)}]*\text{ArcTanh}[\text{Sqrt}[e*x^{(2/3)}]/\text{Sqrt}[-d]]*(\text{Log}[d + e*x^{(2/3)}] - \text{Log}[1 + (e*x^{(2/3)})/d]) - \text{Sqrt}[-d]*\text{Sqrt}[-((e*x^{(2/3)})/d])*(2*\text{Log}[(1 + \text{Sqrt}[-((e*x^{(2/3)})/d])])/2]^2 - 4*\text{Log}[(1 + \text{Sqrt}[-((e*x^{(2/3)})/d])])/2]*...$

Integral number [528]

$$\int x^2 \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^3 dx$$

[B] time = 23.0946 (sec), size = 5975 ,normalized size = 248.96

Result too large to show

[In] Integrate[x^2*(a + b*Log[c*(d + e/x^(2/3))^n])^3,x]

output Result too large to show

Integral number [530]

$$\int \frac{\left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^3}{x^2} dx$$

[B] time = 13.157 (sec), size = 5504 ,normalized size = 229.33

Result too large to show

[In] Integrate[(a + b*Log[c*(d + e/x^(2/3))^n])^3/x^2,x]

output Result too large to show

Integral number [531]

$$\int \frac{(a + b \log(c(d + \frac{e}{x^{2/3}})^n))^3}{x^4} dx$$

[B] time = 21.2985 (sec), size = 6328 ,normalized size = 263.67

Result too large to show

[In] Integrate[(a + b*Log[c*(d + e/x^(2/3))^n])^3/x^4,x]

output Result too large to show

4.5 Test file Number [79]

4.5.1 Mathematica

Integral number [399]

$$\int \frac{\cos^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 0.895414 (sec), size = 394 ,normalized size = 17.13

$$-i\text{RootSum} \left[-ib + 3ib\#1^2 + 8a\#1^3 - 3ib\#1^4 + ib\#1^6 \&, \frac{2b \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx) - \#1}\right) - ib \log(1 - 2\cos(c+dx)\#1 + \#1^2)}{\#1} \right]$$

[In] Integrate[Cos[c + d*x]^4/(a + b*Sin[c + d*x]^3)^2,x]

output $((-I)*\text{RootSum}[(-I)*b + (3I)*b\#1^2 + 8a\#1^3 - (3I)*b\#1^4 + I*b\#1^6 \& , (2*b*\text{ArcTan}[\text{Sin}[c + d*x]/(\text{Cos}[c + d*x] - \#1)] - I*b*\text{Log}[1 - 2*\text{Cos}[c + d*x]*\#1 + \#1^2] + (4I)*a*\text{ArcTan}[\text{Sin}[c + d*x]/(\text{Cos}[c + d*x] - \#1)]*\#1 + 2*a*\text{Log}[1 - 2*\text{Cos}[c + d*x]*\#1 + \#1^2]*\#1 + 12*b*\text{ArcTan}[\text{Sin}[c + d*x]/(\text{Cos}[c + d*x] - \#1)]*\#1^2 - (6I)*b*\text{Log}[1 - 2*\text{Cos}[c + d*x]*\#1 + \#1^2]*\#1^2 - (4I)*a*\text{ArcTan}[\text{Sin}[c + d*x]/(\text{Cos}[c + d*x] - \#1)]*\#1^3 - 2*a*\text{Log}[1 - 2*\text{Cos}[c + d*x]*\#1 + \#1^2]*\#1^3 + 2*b*\text{ArcTan}[\text{Sin}[c + d*x]/(\text{Cos}[c + d*x] - \#1)]*\#1^4 - I*b*\text{Log}[1 - 2*\text{Cos}[c + d*x]*\#1 + \#1^2]*\#1^4)/(b\#1 - (4I)*a\#1^2 - 2*b\#1^3 + b\#1^5) \&] + (24*\text{Cos}[c + d*x]*(a + b*\text{Sin}[c + d*x]))/(4*a + 3*b*\text{Sin}[c + d*x] - b*\text{Sin}[3*(c + d*x)]))/(18*a*b*d)$

Integral number [400]

$$\int \frac{\cos^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 0.765131 (sec), size = 273 ,normalized size = 11.87

$$-i\text{RootSum} \left[-ib + 3ib\#1^2 + 8a\#1^3 - 3ib\#1^4 + ib\#1^6 \& , \frac{2 \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right) - i \log(1 - 2 \cos(c+dx)\#1 + \#1^2)}{\cos(c+dx) - \#1} \right]$$

[In] Integrate[Cos[c + d*x]^2/(a + b*Sin[c + d*x]^3)^2,x]

output $((-I)*\text{RootSum}[(-I)*b + (3I)*b\#1^2 + 8a\#1^3 - (3I)*b\#1^4 + I*b\#1^6 \& , (2*\text{ArcTan}[\text{Sin}[c + d*x]/(\text{Cos}[c + d*x] - \#1)] - I*\text{Log}[1 - 2*\text{Cos}[c + d*x]*\#1 + \#1^2] + 12*\text{ArcTan}[\text{Sin}[c + d*x]/(\text{Cos}[c + d*x] - \#1)]*\#1^2 - (6I)*\text{Log}[1 - 2*\text{Cos}[c + d*x]*\#1 + \#1^2]*\#1^2 + 2*\text{ArcTan}[\text{Sin}[c + d*x]/(\text{Cos}[c + d*x] - \#1)]*\#1^4 - I*\text{Log}[1 - 2*\text{Cos}[c + d*x]*\#1 + \#1^2]*\#1^4)/(b\#1 - (4I)*a\#1^2 - 2*b\#1^3 + b\#1^5) \&] + (12*\text{Sin}[2*(c + d*x)])/(4*a + 3*b*\text{Sin}[c + d*x] - b*\text{Sin}[3*(c + d*x)]))/(18*a*d)$

Integral number [401]

$$\int \frac{1}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 0.608929 (sec), size = 502 ,normalized size = 35.86

$$i\text{RootSum} \left[-ib + 3ib\#1^2 + 8a\#1^3 - 3ib\#1^4 + ib\#1^6 \& , \frac{2b^2 \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right) - ib^2 \log(1 - 2 \cos(c+dx)\#1 + \#1^2) + 4iab \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right)}{\cos(c+dx) - \#1} \right]$$

[In] Integrate[(a + b*Sin[c + d*x]^3)^(-2),x]

output ((I*RootSum[(-I)*b + (3*I)*b*#1^2 + 8*a*#1^3 - (3*I)*b*#1^4 + I*b*#1^6 & , (2*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)] - I*b^2*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] + (4*I)*a*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1 + 2*a*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1 - 24*a^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2 + 12*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2 + (12*I)*a^2*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 - (6*I)*b^2*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 - (4*I)*a*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^3 - 2*a*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^3 + 2*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 - I*b^2*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4)/(b*#1 - (4*I)*a*#1^2 - 2*b*#1^3 + b*#1^5) &])/(a^2 - b^2) - (12*b*Cos[c + d*x]*(-3*a + a*Cos[2*(c + d*x)] + 2*b*Sin[c + d*x]))/(a - b)*(a + b)*(4*a + 3*b*Sin[c + d*x] - b*Sin[3*(c + d*x)])))/(18*a*d)

Integral number [402]

$$\int \frac{\sec^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 2.21428 (sec), size = 845 ,normalized size = 36.74

$$i\text{bRootSum} \left[-ib+3ib\#1^2+8a\#1^3-3ib\#1^4+ib\#1^6 \& , \frac{16a^2 b \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right)+2b^3 \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right)-8ia^2 b \log\left(1-2 \cos(c+dx)\right)}{\dots} \right]$$

[In] Integrate[Sec[c + d*x]^2/(a + b*Sin[c + d*x]^3)^2,x]

output

```
(((-I)*b*RootSum[(-I)*b + (3*I)*b*#1^2 + 8*a*#1^3 - (3*I)*b*#1^4 + I*b*#1^6 &
, (16*a^2*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)] + 2*b^3*ArcTan[Sin[c + d*
x]/(Cos[c + d*x] - #1)] - (8*I)*a^2*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] - I*b^
3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] + (20*I)*a^3*ArcTan[Sin[c + d*x]/(Cos[c +
d*x] - #1)]*#1 + (16*I)*a*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1 + 10
*a^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1 + 8*a*b^2*Log[1 - 2*Cos[c + d*x]*#1
+ #1^2]*#1 - 120*a^2*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2 + 12*b^3*
ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2 + (60*I)*a^2*b*Log[1 - 2*Cos[c +
d*x]*#1 + #1^2]*#1^2 - (6*I)*b^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 - (20
*I)*a^3*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^3 - (16*I)*a*b^2*ArcTan[Si
n[c + d*x]/(Cos[c + d*x] - #1)]*#1^3 - 10*a^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2
]*#1^3 - 8*a*b^2*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^3 + 16*a^2*b*ArcTan[Sin[
c + d*x]/(Cos[c + d*x] - #1)]*#1^4 + 2*b^3*ArcTan[Sin[c + d*x]/(Cos[c + d*x] -
#1)]*#1^4 - (8*I)*a^2*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4 - I*b^3*Log[1
- 2*Cos[c + d*x]*#1 + #1^2]*#1^4)/(b*#1 - (4*I)*a*#1^2 - 2*b*#1^3 + b*#1^5) &
)]/(a*(a^2 - b^2)^2) + (18*Sin[(c + d*x)/2])/((a + b)^2*(Cos[(c + d*x)/2] - Si
n[(c + d*x)/2])) + (18*Sin[(c + d*x)/2])/((a - b)^2*(Cos[(c + d*x)/2] + Sin[(c
+ d*x)/2])) + (12*b*Cos[c + d*x]*(-2*a^3 - 7*a*b^2 + 3*a*b^2*Cos[2*(c + d*x)]
+ 2*b*(2*a^2 + b^2)*Sin[c + d*x]))/(a*(a - b)^2*(a + b)^2*(4*a + 3*b*Sin[c +
d*x] - b*Sin[3*(c + d*x)])))/(18*d)
```

Integral number [403]

$$\int \frac{\sec^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 2.2548 (sec), size = 1158 ,normalized size = 50.35

result too large to display

[In] Integrate[Sec[c + d*x]^4/(a + b*Sin[c + d*x]^3)^2,x]

```

output ((4*I)*b^2*RootSum[(-I)*b + (3*I)*b*#1^2 + 8*a*#1^3 - (3*I)*b*#1^4 + I*b*#1^6
& , (14*a^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)] + 74*a^2*b^2*ArcTan[Sin[c
+ d*x]/(Cos[c + d*x] - #1)] + 2*b^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]
- (7*I)*a^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] - (37*I)*a^2*b^2*Log[1 - 2*Cos[c
+ d*x]*#1 + #1^2] - I*b^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] + (144*I)*a^3*b*A
rcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1 + (36*I)*a*b^3*ArcTan[Sin[c + d*x]/
(Cos[c + d*x] - #1)]*#1 + 72*a^3*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1 + 18*a
*b^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1 - 180*a^4*ArcTan[Sin[c + d*x]/(Cos[c
+ d*x] - #1)]*#1^2 - 372*a^2*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^
2 + 12*b^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2 + (90*I)*a^4*Log[1 -
2*Cos[c + d*x]*#1 + #1^2]*#1^2 + (186*I)*a^2*b^2*Log[1 - 2*Cos[c + d*x]*#1 + #
1^2]*#1^2 - (6*I)*b^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 - (144*I)*a^3*b*A
rcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^3 - (36*I)*a*b^3*ArcTan[Sin[c + d*x
]/(Cos[c + d*x] - #1)]*#1^3 - 72*a^3*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^3
- 18*a*b^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^3 + 14*a^4*ArcTan[Sin[c + d*x]
/(Cos[c + d*x] - #1)]*#1^4 + 74*a^2*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1
)]*#1^4 + 2*b^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 - (7*I)*a^4*Log[
1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4 - (37*I)*a^2*b^2*Log[1 - 2*Cos[c + d*x]*#1
+ #1^2]*#1^4 - I*b^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4)/(b*#1 - (4*I)*a*#
1^2 - 2*b*#1^3 + b*#1^5) & ] + (3*Sec[c + d*x]^3*(48*a^5*b + 568*a^3*b^3 + ...

```

4.5.2 Fricas

Integral number [399]

$$\int \frac{\cos^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 9.39875 (sec), size = 9984 ,normalized size = 434.09

Too large to display

[In] integrate(cos(d*x+c)^4/(a+b*sin(d*x+c)^3)^2,x, algorithm="fricas")

output

```

-1/36*(sqrt(2)*sqrt(1/2)*(a^2*b*d - (a*b^2*d*cos(d*x + c)^2 - a*b^2*d)*sin(d*x
+ c))*sqrt((((1/2)^(1/3)*(I*sqrt(3) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/
(a^10*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^10*b^8*d^6))^(1/3
) + 6/(a^2*b^2*d^2))*a^2*b^2*d^2 + 3*sqrt(1/3)*a^2*b^2*d^2*sqrt(-((((1/2)^(1/3)
*(I*sqrt(3) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^10*b^8*d^6) - (a^6 + 1
5*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^10*b^8*d^6))^(1/3) + 6/(a^2*b^2*d^2)))^2*a^
4*b^4*d^4 - 12*((1/2)^(1/3)*(I*sqrt(3) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^
3/(a^10*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^10*b^8*d^6))^(1
/3) + 6/(a^2*b^2*d^2))*a^2*b^2*d^2 + 36)/(a^4*b^4*d^4) - 18)/(a^2*b^2*d^2))*l
og(1/4*(a^9*b^5 + 8*a^7*b^7)*((1/2)^(1/3)*(I*sqrt(3) + 1)*(27/(a^6*b^6*d^6) -
(a^2 - 4*b^2)^3/(a^10*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^1
0*b^8*d^6))^(1/3) + 6/(a^2*b^2*d^2))^2*d^4*sin(d*x + c) - 2*a^6 + 96*a^2*b^4 -
256*b^6 - 3*(a^7*b^3 + 8*a^5*b^5)*((1/2)^(1/3)*(I*sqrt(3) + 1)*(27/(a^6*b^6*d
^6) - (a^2 - 4*b^2)^3/(a^10*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6
)/(a^10*b^8*d^6))^(1/3) + 6/(a^2*b^2*d^2))*d^2*sin(d*x + c) - 1/4*sqrt(2)*sqrt
(1/2)*((((1/2)^(1/3)*(I*sqrt(3) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^10*
b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^10*b^8*d^6))^(1/3) + 6/
(a^2*b^2*d^2))^2*a^9*b^7*d^5*cos(d*x + c) - 16*(a^7*b^5 - a^5*b^7)*((1/2)^(1/3
)*(I*sqrt(3) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^10*b^8*d^6) - (a^6 +
15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^10*b^8*d^6))^(1/3) + 6/(a^2*b^2*d^2))*...

```

Integral number [400]

$$\int \frac{\cos^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 3.24086 (sec), size = 36403 ,normalized size = 1582.74

Too large to display

[In] integrate(cos(d*x+c)^2/(a+b*sin(d*x+c)^3)^2,x, algorithm="fricas")

output

```

1/324*(3*sqrt(2/3)*sqrt(1/6)*(a^2*d - (a*b*d*cos(d*x + c)^2 - a*b*d)*sin(d*x +
c))*sqrt(-((a^4 - a^2*b^2)*((-I*sqrt(3) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) -
1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12*b^
4*d^6 - a^10*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b
^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 -
80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 6561*(I*sqrt(3) + 1
)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12*b^4*d^6 - a^10*b^6*d^6) + 1/11
8098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2
- a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 -
b^2)^2*a^10*b^4*d^6))^(1/3) - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2 + 3*sqrt(1/3)*
(a^4 - a^2*b^2)*d^2*sqrt(-((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*((-I*sqrt(3) + 1)*(
3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4
- 16*a^2*b^2 + 64*b^4)/(a^12*b^4*d^6 - a^10*b^6*d^6) + 1/118098/((a^6*b^2*d^4
- a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 +
1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^
6))^(1/3) - 6561*(I*sqrt(3) + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12
*b^4*d^6 - a^10*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^
2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2
- 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 162/(a^4*d^2 - a
^2*b^2*d^2))^2*d^4 + 324*(a^4*b^2 - a^2*b^4)*((-I*sqrt(3) + 1)*(3/(a^6*b^2*...

```

Integral number [401]

$$\int \frac{1}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 8.47099 (sec), size = 70185 ,normalized size = 5013.21

Too large to display

[In] integrate(1/(a+b*sin(d*x+c)^3)^2,x, algorithm=""fricas"")

output

```

-1/108*(36*a*b*cos(d*x + c)^3 + 36*b^2*cos(d*x + c)*sin(d*x + c) - sqrt(2/3)*s
qrt(1/2)*((a^4 - a^2*b^2)*d - ((a^3*b - a*b^3)*d*cos(d*x + c)^2 - (a^3*b - a*b
^3)*d)*sin(d*x + c))*sqrt(-(1458*a^4 + 486*a^2*b^2 - 486*b^4 - (a^8 - 3*a^6*b^
2 + 3*a^4*b^4 - a^2*b^6))*((-I*sqrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d
^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^10*
d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432
*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6)
- 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2
- a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d
^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*
a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b
^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^(1/3) + 2187*(I*sqrt(3
) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6
+ 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2
- 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 -
b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d
^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375
*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*
a^10*d^6))^(1/3) + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a
^4*b^4*d^2 - a^2*b^6*d^2))*d^2 + 3*sqrt(1/3)*(a^8 - 3*a^6*b^2 + 3*a^4*b^4 - ...

```

Integral number [402]

$$\int \frac{\sec^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 43.884 (sec), size = 102913 ,normalized size = 4474.48

Too large to display

[In] integrate(sec(d*x+c)^2/(a+b*sin(d*x+c)^3)^2,x, algorithm="fricas")

output $1/108*(108*(a^3*b + 2*a*b^3)*\cos(dx + c)^4 - 108*a^3*b + 108*a*b^3 - \sqrt{2}*\sqrt{1/2}*((a^6 - 2*a^4*b^2 + a^2*b^4)*d*\cos(dx + c) - ((a^5*b - 2*a^3*b^3 + a*b^5)*d*\cos(dx + c))^3 - (a^5*b - 2*a^3*b^3 + a*b^5)*d*\cos(dx + c))*\sin(dx + c))*\sqrt{-(5670*a^6*b^2 + 31590*a^4*b^4 + 2916*a^2*b^6 - 810*b^8 - (a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 + 5*a^4*b^8 - a^2*b^{10})*((-I*\sqrt{3}) + 1))*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8))*((10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{1/3} + 729*(I*\sqrt{3}) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2...$

Integral number [403]

$$\int \frac{\sec^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 140.116 (sec), size = 133123 ,normalized size = 5787.96

Too large to display

[In] integrate(sec(dx+c)^4/(a+b*sin(dx+c)^3)^2,x, algorithm="fricas")

output

$$\frac{1}{108}(36(2a^5b - 30a^3b^3 - 17ab^5)\cos(dx + c)^6 - 36a^5b + 72a^3b^3 - 36ab^5 - 108(a^5b - 21a^3b^3 - 10ab^5)\cos(dx + c)^4 + \sqrt{2/3}\sqrt{1/6}((a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6)d\cos(dx + c)^3 - ((a^7b - 3a^5b^3 + 3a^3b^5 - ab^7)d\cos(dx + c)^5 - (a^7b - 3a^5b^3 + 3a^3b^5 - ab^7)d\cos(dx + c)^3)\sin(dx + c))\sqrt{-(573480a^8b^4 + 4293324a^6b^6 + 3847662a^4b^8 + 159894a^2b^{10} - 17010b^{12} - (a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14})^2)} + 15(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)))/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) - 5/118098(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))$$

4.5.3 Mupad

Integral number [399]

$$\int \frac{\cos^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 15.0511 (sec), size = -1 ,normalized size = -0.04

Too large to display

[In] int(cos(c + d*x)^4/(a + b*sin(c + d*x)^3)^2,x)

output $2/(3*d*(a*b + 8*b^2*\tan(c/2 + (d*x)/2)^3 + 3*a*b*\tan(c/2 + (d*x)/2)^2 + 3*a*b*\tan(c/2 + (d*x)/2)^4 + a*b*\tan(c/2 + (d*x)/2)^6)) + \text{symsum}(\log((638976*a^2*b^4 - 655360*b^6 - 8192*a^6 + 24576*a^4*b^2 - 2949120*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)*a^3*b^5 + 2138112*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)*a^5*b^3 - 9437184*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)*b^8*\tan(c/2 + (d*x)/2) - 786432*a*b^5*\tan(c/2 + (d*x)/2) + 98304*a^5*b*\tan(c/2 + (d*x)/2) - 21233664*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^2*a^2*b^8 + 18579456*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^2*a^4*b^6 + 2654208*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^2*a^6*b^4 - 167215104*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^3*a^5*b^7 + 113467392*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^3*a^7*b^5 - 107495424*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^4*a^6*b^8 + 107495424*\text{root}(531441*a^{10}*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4...$

Integral number [400]

$$\int \frac{\cos^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 15.2435 (sec), size = -1 ,normalized size = -0.04

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[In] $\text{int}(\cos(c + d*x)^2/(a + b*\sin(c + d*x)^3)^2,x)$

```

output symsum(log(-((131072*b^2)/243 - (16384*a^2)/243 + (8192*root(531441*a^12*b^4*d
^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 +
a^4 + 64*b^4, d, k)*a^4*tan(c/2 + (d*x)/2))/27 + (1048576*root(531441*a^12*b^4
*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2
+ a^4 + 64*b^4, d, k)*b^4*tan(c/2 + (d*x)/2))/27 + (262144*root(531441*a^12*b^
4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2
+ a^4 + 64*b^4, d, k)^2*a^2*b^4)/3 - (131072*root(531441*a^12*b^4*d^6 - 53144
1*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b
^4, d, k)^2*a^4*b^2)/3 - 98304*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6
+ 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^3*a^5
*b^3 + 442368*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d
^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^4*a^6*b^4 + 221184*roo
t(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*
d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^4*a^8*b^2 + 7962624*root(531441*a^12*b^
4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2
+ a^4 + 64*b^4, d, k)^5*a^7*b^5 - 5971968*root(531441*a^12*b^4*d^6 - 531441*a
^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4,
d, k)^5*a^9*b^3 + (131072*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19
683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)*a*b^3)/27
- (65536*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^...

```

Integral number [401]

$$\int \frac{1}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 17.0233 (sec), size = -1 ,normalized size = -0.07

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[In] int(1/(a + b*sin(c + d*x)^3)^2,x)

output

```

symsum(log(-(8192*(80*b^6 - 270*a^2*b^4))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2)) -
  root(1594323*a^14*b^2*d^6 - 1594323*a^12*b^4*d^6 + 531441*a^10*b^6*d^6 - 5314
  41*a^16*d^6 - 59049*a^10*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147*a^12*d^4 + 8019*
  a^6*b^2*d^2 - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k)*((8192*(14
  4*a*b^7 + 648*a^3*b^5 - 2187*a^5*b^3))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2)) - roo
  t(1594323*a^14*b^2*d^6 - 1594323*a^12*b^4*d^6 + 531441*a^10*b^6*d^6 - 531441*a
  ^16*d^6 - 59049*a^10*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147*a^12*d^4 + 8019*a^6*
  b^2*d^2 - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k)*(root(1594323*
  a^14*b^2*d^6 - 1594323*a^12*b^4*d^6 + 531441*a^10*b^6*d^6 - 531441*a^16*d^6 -
  59049*a^10*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147*a^12*d^4 + 8019*a^6*b^2*d^2 -
  19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k))*((8192*(26973*a^7*b^5 -
  20412*a^5*b^7 + 39366*a^9*b^3))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2)) - root(15943
  23*a^14*b^2*d^6 - 1594323*a^12*b^4*d^6 + 531441*a^10*b^6*d^6 - 531441*a^16*d^6
  - 59049*a^10*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147*a^12*d^4 + 8019*a^6*b^2*d^2
  - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k)*(root(1594323*a^14*b^
  2*d^6 - 1594323*a^12*b^4*d^6 + 531441*a^10*b^6*d^6 - 531441*a^16*d^6 - 59049*a
  ^10*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147*a^12*d^4 + 8019*a^6*b^2*d^2 - 19683*a
  ^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k))*((8192*(236196*a^7*b^9 - 649539
  *a^9*b^7 + 590490*a^11*b^5 - 177147*a^13*b^3))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2
  )) + (8192*tan(c/2 + (d*x)/2)*(6561*a^8*b^8 - 13122*a^10*b^6 + 6561*a^12*b^...

```

Integral number [402]

$$\int \frac{\sec^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 19.147 (sec), size = -1 ,normalized size = -0.04

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[In] int(1/(cos(c + d*x)^2*(a + b*sin(c + d*x)^3)^2),x)

```

output symsum(log(5479612416*a^8*b^36 - 180486144*a^6*b^38 - root(5314410*a^16*b^4*d^
6 - 5314410*a^14*b^6*d^6 - 2657205*a^18*b^2*d^6 + 2657205*a^12*b^8*d^6 - 53144
1*a^10*b^10*d^6 + 531441*a^20*d^6 + 11514555*a^12*b^4*d^4 + 2066715*a^14*b^2*d
^4 + 1062882*a^10*b^6*d^4 - 295245*a^8*b^8*d^4 + 984150*a^8*b^4*d^2 - 98415*a^
6*b^6*d^2 + 15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8, d, k)*(tan(c/2 + (d*x)/2)*(
764411904*a^6*b^40 - 27805483008*a^8*b^38 + 437297356800*a^10*b^36 - 367246172
1600*a^12*b^34 + 19250011791360*a^14*b^32 - 69150635753472*a^16*b^30 + 1801658
72001024*a^18*b^28 - 352655758540800*a^20*b^26 + 529923028377600*a^22*b^24 - 6
18699706859520*a^24*b^22 + 563713761042432*a^26*b^20 - 399760062234624*a^28*b^
18 + 218398602240000*a^30*b^16 - 90108039168000*a^32*b^14 + 27130620764160*a^3
4*b^12 - 5617221156864*a^36*b^10 + 713536708608*a^38*b^8 - 41803776000*a^40*b^
6) - root(5314410*a^16*b^4*d^6 - 5314410*a^14*b^6*d^6 - 2657205*a^18*b^2*d^6 +
2657205*a^12*b^8*d^6 - 531441*a^10*b^10*d^6 + 531441*a^20*d^6 + 11514555*a^12
*b^4*d^4 + 2066715*a^14*b^2*d^4 + 1062882*a^10*b^6*d^4 - 295245*a^8*b^8*d^4 +
984150*a^8*b^4*d^2 - 98415*a^6*b^6*d^2 + 15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8
, d, k)*(root(5314410*a^16*b^4*d^6 - 5314410*a^14*b^6*d^6 - 2657205*a^18*b^2*d^
^6 + 2657205*a^12*b^8*d^6 - 531441*a^10*b^10*d^6 + 531441*a^20*d^6 + 11514555*
a^12*b^4*d^4 + 2066715*a^14*b^2*d^4 + 1062882*a^10*b^6*d^4 - 295245*a^8*b^8*d^
4 + 984150*a^8*b^4*d^2 - 98415*a^6*b^6*d^2 + 15625*a^4*b^4 - 2000*a^2*b^6 + 64
*b^8, d, k)*(tan(c/2 + (d*x)/2)*(157695787008*a^12*b^38 - 4039140556800*a^1...

```

Integral number [403]

$$\int \frac{\sec^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 23.8272 (sec), size = -1 ,normalized size = -0.04

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[In] int(1/(cos(c + d*x)^4*(a + b*sin(c + d*x)^3)^2),x)


```

output symsum(log(26838024192*a^8*b^54 - tan(c/2 + (d*x)/2)*(7962624000*a^7*b^55 - 50
8612608000*a^9*b^53 + 8841498624000*a^11*b^51 - 82283765760000*a^13*b^49 + 501
714984960000*a^15*b^47 - 2205295497216000*a^17*b^45 + 7379181637632000*a^19*b^
43 - 19451488075776000*a^21*b^41 + 41318016122880000*a^23*b^39 - 7181143216128
0000*a^25*b^37 + 103155513237504000*a^27*b^35 - 123224906907648000*a^29*b^33 +
122756816093184000*a^31*b^31 - 101967282708480000*a^33*b^29 + 703968720076800
00*a^35*b^27 - 40129785593856000*a^37*b^25 + 18687625592832000*a^39*b^23 - 699
4754113536000*a^41*b^21 + 2053854351360000*a^43*b^19 - 455730831360000*a^45*b^
17 + 71860690944000*a^47*b^15 - 7177310208000*a^49*b^13 + 341397504000*a^51*b^
11) - 392822784*a^6*b^56 - root(18600435*a^18*b^6*d^6 - 18600435*a^16*b^8*d^6
- 11160261*a^20*b^4*d^6 + 11160261*a^14*b^10*d^6 + 3720087*a^22*b^2*d^6 - 3720
087*a^12*b^12*d^6 + 531441*a^10*b^14*d^6 - 531441*a^24*d^6 - 173879622*a^14*b^
6*d^4 - 155830311*a^12*b^8*d^4 - 23225940*a^16*b^4*d^4 - 6475707*a^10*b^10*d^4
+ 688905*a^8*b^12*d^4 - 11565585*a^8*b^8*d^2 + 3750705*a^10*b^6*d^2 + 433755*
a^6*b^10*d^2 - 117649*a^4*b^8 + 5488*a^2*b^10 - 64*b^12, d, k)*(tan(c/2 + (d*x
)/2)*(764411904*a^6*b^58 - 61439606784*a^8*b^56 + 2110475575296*a^10*b^54 - 33
643637121024*a^12*b^52 + 319697763065856*a^14*b^50 - 2067381036048384*a^16*b^4
8 + 9810082122817536*a^18*b^46 - 35797302942326784*a^20*b^44 + 103613766013034
496*a^22*b^42 - 243004699498881024*a^24*b^40 + 468678655511248896*a^26*b^38 -
750973819695611904*a^28*b^36 + 1006348379003928576*a^30*b^34 - 113202827820...

```

4.6 Test file Number [151]

4.6.1 Mathematica

Integral number [65]

$$\int \frac{\arctan(a + bx)}{\sqrt[3]{1 + a^2 + 2abx + b^2x^2}} dx$$

[B] time = 0.31135 (sec), size = 163 ,normalized size = 5.82

$$6 \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) \left(15 + 10(a + bx) \arctan(a + bx) + \frac{4(a+bx) \arctan(a+bx) \operatorname{Hypergeometric2F1}\left(1, \frac{4}{3}, \frac{11}{6}, \frac{1}{1+(a+bx)^2}\right)}{1+(a+bx)^2} \right) \\ \hline 20b\sqrt[3]{1 + a^2 + 2abx + b^2x^2} \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right)$$

[In] Integrate[ArcTan[a + b*x]/(1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3), x]

output $(6\Gamma[11/6]\Gamma[7/3]*(15 + 10*(a + b*x)*\text{ArcTan}[a + b*x] + (4*(a + b*x)*\text{ArcTan}[a + b*x]*\text{Hypergeometric2F1}[1, 4/3, 11/6, (1 + (a + b*x)^2)^{-1}]))/(1 + (a + b*x)^2) + (5*2^{(1/3)}*\text{Sqrt}[\text{Pi}]*\Gamma[5/3]*\text{HypergeometricPFQ}[\{1, 4/3, 4/3\}, \{11/6, 7/3\}, (1 + (a + b*x)^2)^{-1}]))/(1 + (a + b*x)^2)/(20*b*(1 + a^2 + 2*a*b*x + b^2*x^2)^{(1/3)}*\Gamma[11/6]*\Gamma[7/3])$

Integral number [66]

$$\int \frac{\arctan(a + bx)}{\sqrt[3]{(1 + a^2)c + 2abcx + b^2cx^2}} dx$$

[B] time = 0.151768 (sec), size = 165 ,normalized size = 5.

$$\frac{6 \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) \left(15 + 10(a + bx) \arctan(a + bx) + \frac{4(a+bx) \arctan(a+bx) \text{Hypergeometric2F1}\left(1, \frac{4}{3}, \frac{11}{6}, \frac{1}{1+(a+bx)^2}\right)}{1+(a+bx)^2}\right)}{20b \sqrt[3]{c(1 + a^2 + 2abx + b^2x^2)} \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right)}$$

[In] Integrate[ArcTan[a + b*x]/((1 + a^2)*c + 2*a*b*c*x + b^2*c*x^2)^(1/3), x]

output $(6\Gamma[11/6]\Gamma[7/3]*(15 + 10*(a + b*x)*\text{ArcTan}[a + b*x] + (4*(a + b*x)*\text{ArcTan}[a + b*x]*\text{Hypergeometric2F1}[1, 4/3, 11/6, (1 + (a + b*x)^2)^{-1}]))/(1 + (a + b*x)^2) + (5*2^{(1/3)}*\text{Sqrt}[\text{Pi}]*\Gamma[5/3]*\text{HypergeometricPFQ}[\{1, 4/3, 4/3\}, \{11/6, 7/3\}, (1 + (a + b*x)^2)^{-1}]))/(1 + (a + b*x)^2)/(20*b*(c*(1 + a^2 + 2*a*b*x + b^2*x^2))^{(1/3)}*\Gamma[11/6]*\Gamma[7/3])$

Integral number [69]

$$\int \frac{(a + bx)^2 \arctan(a + bx)}{\sqrt[3]{1 + a^2 + 2abx + b^2x^2}} dx$$

[B] time = 4.75302 (sec), size = 181 ,normalized size = 5.17

$$3(1 + (a + bx)^2)^{2/3} \left(\frac{5 \sqrt[3]{2} \sqrt{\pi} \Gamma\left(\frac{5}{3}\right) {}_3F_2\left(1, \frac{4}{3}, \frac{4}{3}; \frac{11}{6}, \frac{7}{3}; \frac{1}{1+(a+bx)^2}\right)}{(1+(a+bx)^2)^2} + \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) \left(15 + \frac{90}{1+(a+bx)^2}\right) \right)$$

140b Gamr

[In] Integrate[((a + b*x)^2*ArcTan[a + b*x])/(1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3), x]

output $(-3*(1 + (a + b*x)^2)^{(2/3)}*((5*2^{(1/3)}*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[$
 $\{1, 4/3, 4/3\}, \{11/6, 7/3\}, (1 + (a + b*x)^2)^{-1}]))/(1 + (a + b*x)^2)^2 + Gam$
 $ma[11/6]*Gamma[7/3]*(15 + 90/(1 + (a + b*x)^2) + (24*(a + b*x)*ArcTan[a + b*x]$
 $*Hypergeometric2F1[1, 4/3, 11/6, (1 + (a + b*x)^2)^{-1}]))/(1 + (a + b*x)^2)^2$
 $+ 5*ArcTan[a + b*x]*(-4*(a + b*x) + 6*Sin[2*ArcTan[a + b*x]])))/(140*b*Gamma[$
 $11/6]*Gamma[7/3])$

Integral number [70]

$$\int \frac{(a + bx)^2 \arctan(a + bx)}{\sqrt[3]{(1 + a^2)c + 2abx + b^2x^2}} dx$$

[B] time = 0.727785 (sec), size = 225 ,normalized size = 5.62

$$3\sqrt[3]{1 + a^2 + 2abx + b^2x^2}(1 + (a + bx)^2)^{2/3} \left(\frac{5\sqrt[3]{2}\sqrt{\pi} \Gamma(\frac{5}{3}) {}_3F_2\left(1, \frac{4}{3}, \frac{4}{3}; \frac{11}{6}, \frac{7}{3}; \frac{1}{1+(a+bx)^2}\right)}{(1+(a+bx)^2)^2} + \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{11}{6}\right) \right)$$

$$140b\sqrt[3]{c(1 +$$

[In] Integrate[((a + b*x)^2*ArcTan[a + b*x])/((1 + a^2)*c + 2*a*b*c*x + b^2*c*x^2)^(1/3), x]

output $(-3*(1 + a^2 + 2*a*b*x + b^2*x^2)^{(1/3)}*(1 + (a + b*x)^2)^{(2/3)}*((5*2^{(1/3)}*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[$
 $\{1, 4/3, 4/3\}, \{11/6, 7/3\}, (1 + (a + b*x)^2)^{-1}]))/(1 + (a + b*x)^2)^2 + Gamma[11/6]*Gamma[7/3]*(15 + 90/(1 + (a + b*x)$
 $)^2) + (24*(a + b*x)*ArcTan[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + (a + b*x)^2)^{-1}]))/(1 + (a + b*x)^2)^2 + 5*ArcTan[a + b*x]*(-4*(a + b*x) + 6*Sin[$
 $2*ArcTan[a + b*x]])))/(140*b*(c*(1 + a^2 + 2*a*b*x + b^2*x^2))^{(1/3)}*Gamma[11/6]*Gamma[7/3])$

4.7 Test file Number [154]

4.7.1 Mathematica

Integral number [116]

$$\int \frac{\cot^{-1}(a + bx)}{\sqrt[3]{1 + a^2 + 2abx + b^2x^2}} dx$$

[B] time = 0.30209 (sec), size = 177 ,normalized size = 6.32

$$\frac{6 \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) (5(1 + a^2 + 2abx + b^2x^2) (-3 + 2(a + bx) \cot^{-1}(a + bx)) + 4(a + bx) \cot^{-1}(a + bx))}{20b(1 + a^2 + 2abx + b^2x^2)}$$

[In] Integrate[ArcCot[a + b*x]/(1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3),x]

output $(6*\Gamma[11/6]*\Gamma[7/3]*(5*(1 + a^2 + 2*a*b*x + b^2*x^2)*(-3 + 2*(a + b*x)*\text{ArcCot}[a + b*x]) + 4*(a + b*x)*\text{ArcCot}[a + b*x]*\text{Hypergeometric2F1}[1, 4/3, 11/6, (1 + a^2 + 2*a*b*x + b^2*x^2)^{-1}]) - 5*2^{(1/3)}*\text{Sqrt}[\text{Pi}]*\Gamma[5/3]*\text{HypergeometricPFQ}[\{1, 4/3, 4/3\}, \{11/6, 7/3\}, (1 + a^2 + 2*a*b*x + b^2*x^2)^{-1}])/(20*b*(1 + a^2 + 2*a*b*x + b^2*x^2)^{(4/3)}*\Gamma[11/6]*\Gamma[7/3])$

Integral number [117]

$$\int \frac{\cot^{-1}(a + bx)}{\sqrt[3]{(1 + a^2)c + 2abcx + b^2cx^2}} dx$$

[B] time = 0.141477 (sec), size = 180 ,normalized size = 5.45

$$\frac{c\left(6 \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) (5(1 + a^2 + 2abx + b^2x^2) (-3 + 2(a + bx) \cot^{-1}(a + bx)) + 4(a + bx) \cot^{-1}(a + bx))\right)}{20b(c(1 + a^2 + 2abx + b^2x^2))}$$

[In] Integrate[ArcCot[a + b*x]/((1 + a^2)*c + 2*a*b*c*x + b^2*c*x^2)^(1/3),x]

output $(c*(6*\Gamma[11/6]*\Gamma[7/3]*(5*(1 + a^2 + 2*a*b*x + b^2*x^2)*(-3 + 2*(a + b*x)*\text{ArcCot}[a + b*x]) + 4*(a + b*x)*\text{ArcCot}[a + b*x]*\text{Hypergeometric2F1}[1, 4/3, 11/6, (1 + a^2 + 2*a*b*x + b^2*x^2)^{-1}]) - 5*2^{(1/3)}*\text{Sqrt}[\text{Pi}]*\Gamma[5/3]*\text{HypergeometricPFQ}[\{1, 4/3, 4/3\}, \{11/6, 7/3\}, (1 + a^2 + 2*a*b*x + b^2*x^2)^{-1}]))/(20*b*(c*(1 + a^2 + 2*a*b*x + b^2*x^2))^{(4/3)}*\Gamma[11/6]*\Gamma[7/3])$

Integral number [120]

$$\int \frac{(a + bx)^2 \cot^{-1}(a + bx)}{\sqrt[3]{1 + a^2 + 2abx + b^2x^2}} dx$$

[B] time = 0.740671 (sec), size = 198 ,normalized size = 5.66

$$\frac{3\left(\Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) (5(1 + (a + bx)^2) (3(7 + (a + bx)^2) + 4(a + bx) (-2 + (a + bx)^2) \cot^{-1}(a + bx))\right)}{140b\sqrt[3]{1 + a^2 + 2abx}}$$

```
[In] Integrate[((a + b*x)^2*ArcCot[a + b*x])/((1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3)),x]
```

```
output (3*(Gamma[11/6]*Gamma[7/3]*(5*(1 + (a + b*x)^2)*(3*(7 + (a + b*x)^2) + 4*(a + b*x)*(-2 + (a + b*x)^2)*ArcCot[a + b*x]) - 24*(a + b*x)*ArcCot[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)]) + 5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)))/(140*b*(1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3)*(1 + (a + b*x)^2)*Gamma[11/6]*Gamma[7/3])
```

Integral number [121]

$$\int \frac{(a + bx)^2 \cot^{-1}(a + bx)}{\sqrt[3]{(1 + a^2)c + 2abcx + b^2cx^2}} dx$$

[B] time = 0.321534 (sec), size = 200 ,normalized size = 5.

$$\frac{3 \left(\Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) (5(1 + (a + bx)^2) (3(7 + (a + bx)^2) + 4(a + bx) (-2 + (a + bx)^2) \cot^{-1}(a + bx)) - 24(a + bx) \cot^{-1}(a + bx) \right)}{140b \sqrt[3]{c(1 + a^2 + 2abx + b^2x^2)}}$$

```
[In] Integrate[((a + b*x)^2*ArcCot[a + b*x])/((1 + a^2)*c + 2*a*b*c*x + b^2*c*x^2)^(1/3),x]
```

```
output (3*(Gamma[11/6]*Gamma[7/3]*(5*(1 + (a + b*x)^2)*(3*(7 + (a + b*x)^2) + 4*(a + b*x)*(-2 + (a + b*x)^2)*ArcCot[a + b*x]) - 24*(a + b*x)*ArcCot[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)]) + 5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)))/(140*b*(c*(1 + a^2 + 2*a*b*x + b^2*x^2))^(1/3)*(1 + (a + b*x)^2)*Gamma[11/6]*Gamma[7/3])
```

4.8 Test file Number [173]

4.8.1 Mathematica

Integral number [74]

$$\int \frac{\sinh^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 1.06392 (sec), size = 826 ,normalized size = 35.91

$$-9a(a^2 + 3b^2) \cosh(c + dx) + a^3 \cosh(3(c + dx)) - ab^2 \cosh(3(c + dx)) - 2ab\text{RootSum} \left[a - b + 3a\#1^2 + \right.$$

[In] Integrate[Sinh[c + d*x]^3/(a + b*Tanh[c + d*x]^3),x]

output

```
(-9*a*(a^2 + 3*b^2)*Cosh[c + d*x] + a^3*Cosh[3*(c + d*x)] - a*b^2*Cosh[3*(c +
d*x)] - 2*a*b*RootSum[a - b + 3*a*#1^2 + 3*b*#1^2 + 3*a*#1^4 - 3*b*#1^4 + a*#1
^6 + b*#1^6 & , (3*a^2*c + 3*a*b*c + 3*b^2*c + 3*a^2*d*x + 3*a*b*d*x + 3*b^2*d
*x + 6*a^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 -
Sinh[(c + d*x)/2]*#1] + 6*a*b*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Co
sh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1] + 6*b^2*Log[-Cosh[(c + d*x)/2] - Si
nh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1] + 2*a^2*c*#1^2
- 2*b^2*c*#1^2 + 2*a^2*d*x*#1^2 - 2*b^2*d*x*#1^2 + 4*a^2*Log[-Cosh[(c + d*x)/2
] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^2 - 4*
b^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(
c + d*x)/2]*#1]*#1^2 + 3*a^2*c*#1^4 - 3*a*b*c*#1^4 + 3*b^2*c*#1^4 + 3*a^2*d*x*
#1^4 - 3*a*b*d*x*#1^4 + 3*b^2*d*x*#1^4 + 6*a^2*Log[-Cosh[(c + d*x)/2] - Sinh[(
c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^4 - 6*a*b*Log[-C
osh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2
]*#1]*#1^4 + 6*b^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)
/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^4)/(a*#1 + b*#1 + 2*a*#1^3 - 2*b*#1^3 + a*#1
^5 + b*#1^5) & ] + 27*a^2*b*Sinh[c + d*x] + 9*b^3*Sinh[c + d*x] - a^2*b*Sinh[3
*(c + d*x)] + b^3*Sinh[3*(c + d*x)]/(12*(a - b)^2*(a + b)^2*d)
```

Integral number [76]

$$\int \frac{\sinh(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 0.718557 (sec), size = 409 ,normalized size = 19.48

$$6a \cosh(c + dx) + b\text{RootSum} \left[a - b + 3a\#1^2 + 3b\#1^2 + 3a\#1^4 - 3b\#1^4 + a\#1^6 + b\#1^6 \&, \frac{2ac+bc+2adx+bd}{\#1^2} \right]$$

[In] Integrate[Sinh[c + d*x]/(a + b*Tanh[c + d*x]^3),x]

output $(6*a*\text{Cosh}[c + d*x] + b*\text{RootSum}[a - b + 3*a^{#1^2} + 3*b^{#1^2} + 3*a^{#1^4} - 3*b^{#1^4} + a^{#1^6} + b^{#1^6} \& , (2*a*c + b*c + 2*a*d*x + b*d*x + 4*a*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*#1 - \text{Sinh}[(c + d*x)/2]*#1] + 2*b*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*#1 - \text{Sinh}[(c + d*x)/2]*#1] + 2*a*c^{#1^4} - b*c^{#1^4} + 2*a*d*x^{#1^4} - b*d*x^{#1^4} + 4*a*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*#1 - \text{Sinh}[(c + d*x)/2]*#1]*#1^4 - 2*b*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*#1 - \text{Sinh}[(c + d*x)/2]*#1]*#1^4)/(a^{#1} + b^{#1} + 2*a^{#1^3} - 2*b^{#1^3} + a^{#1^5} + b^{#1^5} \&] - 6*b*\text{Sinh}[c + d*x])/(6*(a - b)*(a + b)*d)$

Integral number [77]

$$\int \frac{\text{csch}(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 0.62824 (sec), size = 331 ,normalized size = 15.76

$$6 \log(\cosh(\frac{1}{2}(c + dx))) - 6 \log(\sinh(\frac{1}{2}(c + dx))) + b\text{RootSum}\left[a - b + 3a^{#1^2} + 3b^{#1^2} + 3a^{#1^4} - 3b^{#1^4} - 3b\right]$$

[In] Integrate[Csch[c + d*x]/(a + b*Tanh[c + d*x]^3),x]

output $-1/6*(6*\text{Log}[\text{Cosh}[(c + d*x)/2]] - 6*\text{Log}[\text{Sinh}[(c + d*x)/2]] + b*\text{RootSum}[a - b + 3*a^{#1^2} + 3*b^{#1^2} + 3*a^{#1^4} - 3*b^{#1^4} + a^{#1^6} + b^{#1^6} \& , (c + d*x + 2*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*#1 - \text{Sinh}[(c + d*x)/2]*#1] - 2*c^{#1^2} - 2*d*x^{#1^2} - 4*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*#1 - \text{Sinh}[(c + d*x)/2]*#1]*#1^2 + c^{#1^4} + d*x^{#1^4} + 2*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*#1 - \text{Sinh}[(c + d*x)/2]*#1]*#1^4)/(a^{#1} + b^{#1} + 2*a^{#1^3} - 2*b^{#1^3} + a^{#1^5} + b^{#1^5} \&))/(a*d)$

Integral number [79]

$$\int \frac{\text{csch}^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 0.918625 (sec), size = 214 ,normalized size = 9.3

$$16b\text{RootSum}\left[a - b + 3a^{#1^2} + 3b^{#1^2} + 3a^{#1^4} - 3b^{#1^4} + a^{#1^6} + b^{#1^6} \& , \frac{c^{#1} + d*x^{#1} + 2\log(-\cosh(\frac{1}{2}(c + dx)))}{a + b + \dots}\right]$$

```
[In] Integrate[Csch[c + d*x]^3/(a + b*Tanh[c + d*x]^3),x]
```

```
output -1/24*(16*b*RootSum[a - b + 3*a**1^2 + 3*b**1^2 + 3*a**1^4 - 3*b**1^4 + a**1^6
+ b**1^6 & , (c**1 + d*x**1 + 2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] +
Cosh[(c + d*x)/2]**1 - Sinh[(c + d*x)/2]**1)**1)/(a + b + 2*a**1^2 - 2*b**1^2
+ a**1^4 + b**1^4) & ] + 3*(Csch[(c + d*x)/2]^2 - 4*Log[Cosh[(c + d*x)/2]] + 4
*Log[Sinh[(c + d*x)/2]] + Sech[(c + d*x)/2]^2))/(a*d)
```

4.8.2 Fricas

Integral number [74]

$$\int \frac{\sinh^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[C] time = 4.16929 (sec), size = 62017 ,normalized size = 2696.39

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```
[In] integrate(sinh(d*x+c)^3/(a+b*tanh(d*x+c)^3),x, algorithm=""fricas"")
```


output

```

1/24*((a^3 - a^2*b - a*b^2 + b^3)*cosh(d*x + c)^6 + 6*(a^3 - a^2*b - a*b^2 + b^3)*cosh(d*x + c)*sinh(d*x + c)^5 + (a^3 - a^2*b - a*b^2 + b^3)*sinh(d*x + c)^6 - 9*(a^3 - 3*a^2*b + 3*a*b^2 - b^3)*cosh(d*x + c)^4 - 3*(3*a^3 - 9*a^2*b + 9*a*b^2 - 3*b^3 - 5*(a^3 - a^2*b - a*b^2 + b^3)*cosh(d*x + c)^2)*sinh(d*x + c)^4 + 4*(5*(a^3 - a^2*b - a*b^2 + b^3)*cosh(d*x + c)^3 - 9*(a^3 - 3*a^2*b + 3*a*b^2 - b^3)*cosh(d*x + c))*sinh(d*x + c)^3 - 4*sqrt(2/3)*sqrt(1/6)*((a^4 - 2*a^2*b^2 + b^4)*d*cosh(d*x + c)^3 + 3*(a^4 - 2*a^2*b^2 + b^4)*d*cosh(d*x + c)^2*sinh(d*x + c) + 3*(a^4 - 2*a^2*b^2 + b^4)*d*cosh(d*x + c)*sinh(d*x + c)^2 + (a^4 - 2*a^2*b^2 + b^4)*d*sinh(d*x + c)^3)*sqrt(-(810*a^6*b^2 + 2754*a^4*b^4 + 8100*a^2*b^6 - (a^10 - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^10))*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^10*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2)^2)*(-I*sqrt(3) + 1)/(-1/1458*a^2*b^2/(a^10*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^10*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^10*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^10*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2)^3 + 1/1458*(a^10 - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^10)*a^2*b^2/((a^2 - b^2...

```

Integral number [76]

$$\int \frac{\sinh(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[C] time = 1.73806 (sec), size = 40923 ,normalized size = 1948.71

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[In] integrate(sinh(d*x+c)/(a+b*tanh(d*x+c)^3),x, algorithm="fricas")

```

output -1/6*(sqrt(2/3)*sqrt(1/2)*((a^2 - b^2)*d*cosh(d*x + c) + (a^2 - b^2)*d*sinh(d*
x + c))*sqrt(-(108*a^2*b^2 + 54*b^4 - (a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6))*((b^
2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/
(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I*sqrt(3) + 1)/(-1/14
58*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b
^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 -
3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2
- 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^
2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) + 27*(-1/1458*b^2/(a^8*d^6 - 3
*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6
*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a
^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3
*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((
a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*sqrt(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 -
3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^2 + 3*sqrt(1/3)*(a^6 - 3*a^4*b^2
+ 3*a^2*b^4 - b^6)*d^2*sqrt((432*a^6*b^2 + 2592*a^4*b^4 + 5184*a^2*b^6 + 540*b
^8 - (a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 +
b^12))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2
+ b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I*sqrt(3) +
1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - ...

```

Integral number [77]

$$\int \frac{\operatorname{csch}(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[C] time = 1.72563 (sec), size = 20085 ,normalized size = 956.43

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[In] integrate(csch(d*x+c)/(a+b*tanh(d*x+c)^3),x, algorithm="fricas")


```

output -1/6*(6*cosh(d*x + c)^3 + 18*cosh(d*x + c)*sinh(d*x + c)^2 + 6*sinh(d*x + c)^3
+ (a*d*cosh(d*x + c)^4 + 4*a*d*cosh(d*x + c)*sinh(d*x + c)^3 + a*d*sinh(d*x +
c)^4 - 2*a*d*cosh(d*x + c)^2 + 2*(3*a*d*cosh(d*x + c)^2 - a*d)*sinh(d*x + c)^
2 + a*d + 4*(a*d*cosh(d*x + c)^3 - a*d*cosh(d*x + c))*sinh(d*x + c))*sqrt((1/2
)^(1/3)*(I*sqrt(3) + 1)*((a^2 + b^2)*b^2/(a^10*d^6) - (a^2*b^2 - b^4)/(a^10*d
6))^(1/3) + 3*sqrt(1/3)*sqrt(-(((1/2)^(1/3)*(I*sqrt(3) + 1)*((a^2 + b^2)*b^2/(
a^10*d^6) - (a^2*b^2 - b^4)/(a^10*d^6))^(1/3) - 2*(1/2)^(2/3)*b^2*(-I*sqrt(3)
+ 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^10*d^6) - (a^2*b^2 - b^4)/(a^10*d^6))^(1/3))
)^2*a^6*d^4 + 16*b^2)/(a^6*d^4)) - 2*(1/2)^(2/3)*b^2*(-I*sqrt(3) + 1)/(a^6*d^4
*((a^2 + b^2)*b^2/(a^10*d^6) - (a^2*b^2 - b^4)/(a^10*d^6))^(1/3))*log(4*(a^3*
b + a^2*b^2 + a*b^3 + b^4)*cosh(d*x + c) + 4*(a^3*b + a^2*b^2 + a*b^3 + b^4)*s
inh(d*x + c) + 1/2*(((1/2)^(1/3)*(I*sqrt(3) + 1)*((a^2 + b^2)*b^2/(a^10*d^6) -
(a^2*b^2 - b^4)/(a^10*d^6))^(1/3) - 2*(1/2)^(2/3)*b^2*(-I*sqrt(3) + 1)/(a^6*d
^4*((a^2 + b^2)*b^2/(a^10*d^6) - (a^2*b^2 - b^4)/(a^10*d^6))^(1/3)))^2*a^9*d^5
+ (a^7 - a^5*b^2)*((1/2)^(1/3)*(I*sqrt(3) + 1)*((a^2 + b^2)*b^2/(a^10*d^6) -
(a^2*b^2 - b^4)/(a^10*d^6))^(1/3) - 2*(1/2)^(2/3)*b^2*(-I*sqrt(3) + 1)/(a^6*d
^4*((a^2 + b^2)*b^2/(a^10*d^6) - (a^2*b^2 - b^4)/(a^10*d^6))^(1/3)))*d^3 + 4*(a
^4*b + 2*a^3*b^2 + a^2*b^3)*d - 3*sqrt(1/3)*(((1/2)^(1/3)*(I*sqrt(3) + 1)*((a
^2 + b^2)*b^2/(a^10*d^6) - (a^2*b^2 - b^4)/(a^10*d^6))^(1/3) - 2*(1/2)^(2/3)*b
^2*(-I*sqrt(3) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^10*d^6) - (a^2*b^2 - b^4)/(...

```

4.8.3 Mupad

Integral number [76]

$$\int \frac{\sinh(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 83.4069 (sec), size = -1 , normalized size = -0.05

Too large to display

[In] int(sinh(c + d*x)/(a + b*tanh(c + d*x)^3),x)

output $\exp(-c - dx)/(2*(a*d - b*d)) + \text{symsum}(\log((81920*a^2*b^5*\exp(dx)*\exp(\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) + 221184*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k))^3*a^2*b^8*d^3 - 3538944*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k))^3*a^3*b^7*d^3 + 1990656*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k))^3*a^4*b^6*d^3 + 3538944*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k))^3*a^5*b^5*d^3 - 2211840*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k))^3*a^6*b^4*d^3 + 7962624*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k))^5*a^3*b^9*d^5 + 15925248*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2...$

Integral number [77]

$$\int \frac{\text{csch}(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 15.2722 (sec), size = -1 ,normalized size = -0.05

Too large to display

[In] $\text{int}(1/(\sinh(c + dx)*(a + b*\tanh(c + dx)^3)),x)$

```

output symsum(log(-(1409286144*b^6*exp(d*x)*exp(root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)) + 134217728*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)*b^7*d + 1879048192*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)*a*b^6*d - 2818572288*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^3*a^2*b^7*d^3 - 40869298176*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^3*a^3*b^6*d^3 + 28185722880*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^3*a^4*b^5*d^3 + 15502147584*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^3*a^5*b^4*d^3 + 18119393280*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^4*b^7*d^5 + 235552112640*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^5*b^6*d^5 + 14495514624*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^6*b^5*d^5 - 219244658688*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^7*b^4*d^5 - 48922361856*root(729*a^6*b^2*d^6*z^6 - 729*a^8*d^6*z^6 - 243*a^4*b^2*d^4*z^4 + 27*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^8*b^3*d^5 - 32614907904*root(729*a^6*b^2*d^6*...

```

Integral number [79]

$$\int \frac{\operatorname{csch}^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 27.7824 (sec), size = -1 ,normalized size = -0.04

Too large to display

[In] int(1/(sinh(c + d*x)^3*(a + b*tanh(c + d*x)^3)),x)

output

```
exp(c + d*x)/(a*d - a*d*exp(2*c + 2*d*x)) - (2*exp(c + d*x))/(a*d - 2*a*d*exp(
2*c + 2*d*x) + a*d*exp(4*c + 4*d*x)) + symsum(log((570425344*a^4*b^6*exp(d*x)*
exp(root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4, z, k)) - 33554
432*root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4, z, k))*a*b^10*d
- 553648128*a^2*b^8*exp(d*x)*exp(root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 +
a^2*b^2 - b^4, z, k)) - 167772160*a^3*b^7*exp(d*x)*exp(root(729*a^10*d^6*z^6
+ 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4, z, k)) - 16777216*b^10*exp(d*x)*exp(root
(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4, z, k)) + 192937984*a^5
*b^5*exp(d*x)*exp(root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4,
z, k)) + 2617245696*root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4
, z, k)^3*a^5*b^8*d^3 - 150994944*root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 +
a^2*b^2 - b^4, z, k)^3*a^6*b^7*d^3 - 1384120320*root(729*a^10*d^6*z^6 + 27*a^
4*b^2*d^2*z^2 + a^2*b^2 - b^4, z, k)^3*a^7*b^6*d^3 + 2415919104*root(729*a^10*
d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4, z, k)^3*a^8*b^5*d^3 - 3498049536
*root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4, z, k)^3*a^9*b^4*d
^3 + 5435817984*root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4, z,
k)^5*a^8*b^7*d^5 + 679477248*root(729*a^10*d^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2
*b^2 - b^4, z, k)^5*a^9*b^6*d^5 - 70665633792*root(729*a^10*d^6*z^6 + 27*a^4*b
^2*d^2*z^2 + a^2*b^2 - b^4, z, k)^5*a^10*b^5*d^5 + 52319748096*root(729*a^10*d
^6*z^6 + 27*a^4*b^2*d^2*z^2 + a^2*b^2 - b^4, z, k)^5*a^11*b^4*d^5 + 1223059...
```

4.9 Test file Number [206]

4.9.1 Mathematica

Integral number [115]

$$\int \frac{\cos(bx) \operatorname{CosIntegral}(bx)}{x^2} dx$$

[A] time = 0.0255593 (sec), size = 13 ,normalized size = 1.08

$$\frac{\cos(bx) \operatorname{CosIntegral}(bx)}{x}$$

[In] Integrate[(Cos[b*x]*CosIntegral[b*x])/x^2,x]

output

```
-((Cos[b*x]*CosIntegral[b*x])/x)
```

4.9.2 Fricas

Integral number [16]

$$\int \frac{\text{Si}(bx)^2}{x^3} dx$$

[C] time = 0.255927 (sec), size = 74 ,normalized size = 7.4

$$\frac{4b^2x^2 \text{Ci}(2bx) - 2bx \cos(bx) \text{Si}(bx) - (b^2x^2 + 2) \text{Si}(bx)^2 + \cos(bx)^2 - 2(2bx \cos(bx) + \text{Si}(bx)) \sin(bx)}{4x^2}$$

[In] `integrate(sin_integral(b*x)^2/x^3,x, algorithm="fricas")`

output `1/4*(4*b^2*x^2*cos_integral(2*b*x) - 2*b*x*cos(b*x)*sin_integral(b*x) - (b^2*x^2 + 2)*sin_integral(b*x)^2 + cos(b*x)^2 - 2*(2*b*x*cos(b*x) + sin_integral(b*x))*sin(b*x) - 1)/x^2`

CHAPTER 5

APPENDIX

5.1	Listing of grading functions	6331
5.2	Listing of all Rubi rules	6349

5.1 Listing of grading functions

The following are the current version of the grading functions used for grading the quality of the antiderivative with reference to the optimal antiderivative included in the test suite.

There is a version for Maple and for Mathematica/Rubi. There is a version for grading Sympy and version for use with Sagemath.

The following are links to the current source code.

1. Mathematica and Rubi grading function GradeAntiderivative.m
2. Maple grading function GradeAntiderivative.mpl
3. Sympy grading function grade_sympy.py
4. Sagemath grading function grade_sagemath.py

The following are the listings of source code of the grading functions.

5.1.1 Mathematica and Rubi grading function

```
(* Original version thanks to Albert Rich emailed on 03/21/2017 *)
(* ::Package:: *)

(* Nasser: April 7, 2022. add second output which gives reason for the grade *)
(*           Small rewrite of logic in main function to make it*)
(*           match Maple's logic. No change in functionality otherwise*)

(* ::Subsection:: *)
(*GradeAntiderivative[result,optimal]*)

(* ::Text:: *)
(*If result and optimal are mathematical expressions, *)
(*           GradeAntiderivative[result,optimal] returns*)
(* "F" if the result fails to integrate an expression that*)
(*   is integrable*)
(* "C" if result involves higher level functions than necessary*)
(* "B" if result is more than twice the size of the optimal*)
(*   antiderivative*)
(* "A" if result can be considered optimal*)
```

```

GradeAntiderivative[result_,optimal_] := Module[{expnResult,expnOptimal,leafCountResult,leaf
  expnResult = ExpnType[result];
  expnOptimal = ExpnType[optimal];
  leafCountResult = LeafCount[result];
  leafCountOptimal = LeafCount[optimal];

  (*Print["expnResult=",expnResult," expnOptimal=",expnOptimal];*)
  If[expnResult<=expnOptimal,
    If[Not[FreeQ[result,Complex]], (*result contains complex*)
      If[Not[FreeQ[optimal,Complex]], (*optimal contains complex*)
        If[leafCountResult<=2*leafCountOptimal,
          finalresult={"A"," "}
          ,(*ELSE*)
          finalresult={"B","Both result and optimal contain complex but leaf count
        ]
      ,(*ELSE*)
      finalresult={"C","Result contains complex when optimal does not."}
    ]
    ,(*ELSE*)(*result does not contains complex*)
    If[leafCountResult<=2*leafCountOptimal,
      finalresult={"A"," "}
      ,(*ELSE*)
      finalresult={"B","Leaf count is larger than twice the leaf count of optimal.
    ]
  ]
  ,(*ELSE*)(*expnResult>expnOptimal*)
  If[FreeQ[result,Integrate] && FreeQ[result,Int],
    finalresult={"C","Result contains higher order function than in optimal. Order "
    ,
    finalresult={"F","Contains unresolved integral."}
  ]
];

finalresult
]

(* ::Text:: *)
(*The following summarizes the type number assigned an *)
(*expression based on the functions it involves*)
(*1 = rational function*)

```

```

(*2 = algebraic function*)
(*3 = elementary function*)
(*4 = special function*)
(*5 = hyperpergeometric function*)
(*6 = appell function*)
(*7 = rootsum function*)
(*8 = integrate function*)
(*9 = unknown function*)

ExpnType[expn_] :=
  If[AtomQ[expn],
    1,
    If[ListQ[expn],
      Max[Map[ExpnType, expn]],
      If[Head[expn]===Power,
        If[IntegerQ[expn[[2]]],
          ExpnType[expn[[1]]],
          If[Head[expn[[2]]]===Rational,
            If[IntegerQ[expn[[1]]] || Head[expn[[1]]]===Rational,
              1,
              Max[ExpnType[expn[[1]], 2]],
            Max[ExpnType[expn[[1]], ExpnType[expn[[2]], 3]],
          If[Head[expn]===Plus || Head[expn]===Times,
            Max[ExpnType[First[expn]], ExpnType[Rest[expn]]],
          If[ElementaryFunctionQ[Head[expn]],
            Max[3, ExpnType[expn[[1]]],
          If[SpecialFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 4]],
          If[HypergeometricFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 5]],
          If[AppellFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 6]],
          If[Head[expn]===RootSum,
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 7]],
          If[Head[expn]===Integrate || Head[expn]===Int,
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 8]],
          9]]]]]]]]]]

ElementaryFunctionQ[func_] :=

```

```

MemberQ[ {
  Exp, Log,
  Sin, Cos, Tan, Cot, Sec, Csc,
  ArcSin, ArcCos, ArcTan, ArcCot, ArcSec, ArcCsc,
  Sinh, Cosh, Tanh, Coth, Sech, Csch,
  ArcSinh, ArcCosh, ArcTanh, ArcCoth, ArcSech, ArcCsch
}, func]

SpecialFunctionQ[func_] :=
  MemberQ[ {
    Erf, Erfc, Erfi,
    FresnelS, FresnelC,
    ExpIntegralE, ExpIntegralEi, LogIntegral,
    SinIntegral, CosIntegral, SinhIntegral, CoshIntegral,
    Gamma, LogGamma, PolyGamma,
    Zeta, PolyLog, ProductLog,
    EllipticF, EllipticE, EllipticPi
  }, func]

HypergeometricFunctionQ[func_] :=
  MemberQ[ {Hypergeometric1F1, Hypergeometric2F1, HypergeometricPFQ}, func]

AppellFunctionQ[func_] :=
  MemberQ[ {AppellF1}, func]

```

5.1.2 Maple grading function

```

# File: GradeAntiderivative.mpl
# Original version thanks to Albert Rich emailed on 03/21/2017

#Nasser 03/22/2017 Use Maple leaf count instead since buildin
#Nasser 03/23/2017 missing 'ln' for ElementaryFunctionQ added
#Nasser 03/24/2017 corrected the check for complex result
#Nasser 10/27/2017 check for leafsize and do not call ExpnType()
#
# if leaf size is "too large". Set at 500,000
#Nasser 12/22/2019 Added debug flag, added 'dilog' to special functions
#
# see problem 156, file Apostol_Problems

```

```

#Nasser 4/07/2022  add second output which gives reason for the grade

GradeAntiderivative := proc(result,optimal)
local leaf_count_result,
    leaf_count_optimal,
    ExpnType_result,
    ExpnType_optimal,
    debug:=false;

    leaf_count_result:=leafcount(result);
    #do NOT call ExpnType() if leaf size is too large. Recursion problem
    if leaf_count_result > 500000 then
        return "B","result has leaf size over 500,000. Avoiding possible recursion issue";
    fi;

    leaf_count_optimal := leafcount(optimal);
    ExpnType_result := ExpnType(result);
    ExpnType_optimal := ExpnType(optimal);

    if debug then
        print("ExpnType_result",ExpnType_result," ExpnType_optimal=",ExpnType_optimal);
    fi;

# If result and optimal are mathematical expressions,
# GradeAntiderivative[result,optimal] returns
# "F" if the result fails to integrate an expression that
# is integrable
# "C" if result involves higher level functions than necessary
# "B" if result is more than twice the size of the optimal
# antiderivative
# "A" if result can be considered optimal

#This check below actually is not needed, since I only
#call this grading only for passed integrals. i.e. I check
#for "F" before calling this. But no harm of keeping it here.
#just in case.

if not type(result,freeof('int')) then
    return "F","Result contains unresolved integral";
fi;

```

```

if ExpnType_result<=ExpnType_optimal then
  if debug then
    print("ExpnType_result<=ExpnType_optimal");
  fi;
  if is_contains_complex(result) then
    if is_contains_complex(optimal) then
      if debug then
        print("both result and optimal complex");
      fi;
      if leaf_count_result<=2*leaf_count_optimal then
        return "A"," ";
      else
        return "B",cat("Both result and optimal contain complex but leaf count of
                        convert(leaf_count_result,string)," vs. $2 (" ,
                        convert(leaf_count_optimal,string)," ) = ",convert(2*leaf
    end if
  else #result contains complex but optimal is not
    if debug then
      print("result contains complex but optimal is not");
    fi;
    return "C","Result contains complex when optimal does not.";
  fi;
else # result do not contain complex
  # this assumes optimal do not as well. No check is needed here.
  if debug then
    print("result do not contain complex, this assumes optimal do not as well
  fi;
  if leaf_count_result<=2*leaf_count_optimal then
    if debug then
      print("leaf_count_result<=2*leaf_count_optimal");
    fi;
    return "A"," ";
  else
    if debug then
      print("leaf_count_result>2*leaf_count_optimal");
    fi;
    return "B",cat("Leaf count of result is larger than twice the leaf count of
                    convert(leaf_count_result,string)," $ vs. $2(" ,
                    convert(leaf_count_optimal,string)," )=" ,convert(2*leaf_co

```

```

        fi;
    fi;
else #ExpnType(result) > ExpnType(optimal)
    if debug then
        print("ExpnType(result) > ExpnType(optimal)");
    fi;
    return "C",cat("Result contains higher order function than in optimal. Order ",
        convert(ExpnType_result,string)," vs. order ",
        convert(ExpnType_optimal,string),".");
fi;

end proc:

#
# is_contains_complex(result)
# takes expressions and returns true if it contains "I" else false
#
#Nasser 032417
is_contains_complex:= proc(expression)
    return (has(expression,I));
end proc:

# The following summarizes the type number assigned an expression
# based on the functions it involves
# 1 = rational function
# 2 = algebraic function
# 3 = elementary function
# 4 = special function
# 5 = hyperpergeometric function
# 6 = appell function
# 7 = rootsum function
# 8 = integrate function
# 9 = unknown function

ExpnType := proc(expn)
    if type(expn,'atomic') then
        1
    elif type(expn,'list') then
        apply(max,map(ExpnType,expn))
    elif type(expn,'sqrt') then
        if type(op(1,expn),'rational') then

```



```

    1
  else
    max(2,ExpnType(op(1,expn)))
  end if
elif type(expn,``^`) then
  if type(op(2,expn),'integer') then
    ExpnType(op(1,expn))
  elif type(op(2,expn),'rational') then
    if type(op(1,expn),'rational') then
      1
    else
      max(2,ExpnType(op(1,expn)))
    end if
  else
    max(3,ExpnType(op(1,expn)),ExpnType(op(2,expn)))
  end if
elif type(expn,``+`) or type(expn,``*`) then
  max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
elif ElementaryFunctionQ(op(0,expn)) then
  max(3,ExpnType(op(1,expn)))
elif SpecialFunctionQ(op(0,expn)) then
  max(4,apply(max,map(ExpnType,[op(expn)])))
elif HypergeometricFunctionQ(op(0,expn)) then
  max(5,apply(max,map(ExpnType,[op(expn)])))
elif AppellFunctionQ(op(0,expn)) then
  max(6,apply(max,map(ExpnType,[op(expn)])))
elif op(0,expn)='int' then
  max(8,apply(max,map(ExpnType,[op(expn)]))) else
  9
end if
end proc:

ElementaryFunctionQ := proc(func)
  member(func,[
    exp,log,ln,
    sin,cos,tan,cot,sec,csc,
    arcsin,arccos,arctan,arccot,arcsec,arccsc,
    sinh,cosh,tanh,coth,sech,csch,
    arcsinh,arccosh,arctanh,arccoth,arcsech,arccsch])
end proc:

```

```
SpecialFunctionQ := proc(func)
  member(func, [
    erf,erfc,erfi,
    FresnelS,FresnelC,
    Ei,Ei,Li,Si,Ci,Shi,Chi,
    GAMMA,lnGAMMA,Psi,Zeta,polylog,dilog,LambertW,
    EllipticF,EllipticE,EllipticPi])
end proc:

HypergeometricFunctionQ := proc(func)
  member(func, [Hypergeometric1F1,hypergeom,HypergeometricPFQ])
end proc:

AppellFunctionQ := proc(func)
  member(func, [AppellF1])
end proc:

# u is a sum or product. rest(u) returns all but the
# first term or factor of u.
rest := proc(u) local v;
  if nops(u)=2 then
    op(2,u)
  else
    apply(op(0,u),op(2..nops(u),u))
  end if
end proc:

#leafcount(u) returns the number of nodes in u.
#Nasser 3/23/17 Replaced by build-in leafCount from package in Maple
leafcount := proc(u)
  MmaTranslator[Mma][LeafCount](u);
end proc:
```

5.1.3 Sympy grading function

```

#Dec 24, 2019. Nasser M. Abbasi:
#      Port of original Maple grading function by
#      Albert Rich to use with Sympy/Python
#Dec 27, 2019 Nasser. Added `RootSum`. See problem 177, Timofeev file
#      added 'exp_polar'
from sympy import *

def leaf_count(expr):
    #sympy do not have leaf count function. This is approximation
    return round(1.7*count_ops(expr))

def is_sqrt(expr):
    if isinstance(expr,Pow):
        if expr.args[1] == Rational(1,2):
            return True
        else:
            return False
    else:
        return False

def is_elementary_function(func):
    return func in [exp,log,ln,sin,cos,tan,cot,sec,csc,
        asin,acos,atan,acot,asec,acsc,sinh,cosh,tanh,coth,sech,csch,
        asinh,acosh,atanh,acoth,asech,acsch
    ]

def is_special_function(func):
    return func in [ erf,erfc,erfi,
        fresnels,fresnelc,Ei,Ei,Li,Si,Ci,Shi,Chi,
        gamma,loggamma,digamma,zeta,polylog,LambertW,
        elliptic_f,elliptic_e,elliptic_pi,exp_polar
    ]

def is_hypergeometric_function(func):
    return func in [hyper]

def is_appell_function(func):
    return func in [appellf1]

```

```

def is_atom(expn):
    try:
        if expn.isAtom or isinstance(expn,int) or isinstance(expn,float):
            return True
        else:
            return False

    except AttributeError as error:
        return False

def expnType(expn):
    debug=False
    if debug:
        print("expn=",expn,"type(expn)=",type(expn))

    if is_atom(expn):
        return 1
    elif isinstance(expn,list):
        return max(map(expnType, expn)) #apply(max,map(ExpnType,expn))
    elif is_sqrt(expn):
        if isinstance(expn.args[0],Rational): #type(op(1,expn),'rational')
            return 1
        else:
            return max(2,expnType(expn.args[0])) #max(2,ExpnType(op(1,expn)))
    elif isinstance(expn,Pow): #type(expn,'^')
        if isinstance(expn.args[1],Integer): #type(op(2,expn),'integer')
            return expnType(expn.args[0]) #ExpnType(op(1,expn))
        elif isinstance(expn.args[1],Rational): #type(op(2,expn),'rational')
            if isinstance(expn.args[0],Rational): #type(op(1,expn),'rational')
                return 1
            else:
                return max(2,expnType(expn.args[0])) #max(2,ExpnType(op(1,expn)))
        else:
            return max(3,expnType(expn.args[0]),expnType(expn.args[1])) #max(3,ExpnType(op(1,expn)),ExpnType(op(2,expn)))
    elif isinstance(expn,Add) or isinstance(expn,Mul): #type(expn,'+') or type(expn,'*')
        m1 = expnType(expn.args[0])
        m2 = expnType(list(expn.args[1:]))
        return max(m1,m2) #max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
    elif is_elementary_function(expn.func): #ElementaryFunctionQ(op(0,expn))
        return max(3,expnType(expn.args[0])) #max(3,ExpnType(op(1,expn)))
    elif is_special_function(expn.func): #SpecialFunctionQ(op(0,expn))

```

```

    m1 = max(map(expnType, list(expn.args)))
    return max(4,m1) #max(4,apply(max,map(ExpnType,[op(expn)])))
elif is_hypergeometric_function(expn.func): #HypergeometricFunctionQ(op(0,expn))
    m1 = max(map(expnType, list(expn.args)))
    return max(5,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
elif is_appell_function(expn.func):
    m1 = max(map(expnType, list(expn.args)))
    return max(6,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
elif isinstance(expn,RootSum):
    m1 = max(map(expnType, list(expn.args))) #Apply[Max,Append[Map[ExpnType,Apply[List,expn]],7]],
    return max(7,m1)
elif str(expn).find("Integral") != -1:
    m1 = max(map(expnType, list(expn.args)))
    return max(8,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
else:
    return 9

#main function
def grade_antiderivative(result,optimal):

    #print ("Enter grade_antiderivative for sagemath")
    #print("Enter grade_antiderivative, result=",result," optimal=",optimal)

    leaf_count_result = leaf_count(result)
    leaf_count_optimal = leaf_count(optimal)

    #print("leaf_count_result=",leaf_count_result)
    #print("leaf_count_optimal=",leaf_count_optimal)

    expnType_result = expnType(result)
    expnType_optimal = expnType(optimal)

    if str(result).find("Integral") != -1:
        grade = "F"
        grade_annotation = ""
    else:
        if expnType_result <= expnType_optimal:
            if result.has(I):
                if optimal.has(I): #both result and optimal complex
                    if leaf_count_result <= 2*leaf_count_optimal:
                        grade = "A"

```

```

        grade_annotation = ""
    else:
        grade = "B"
        grade_annotation = "Both result and optimal contain complex but leaf count of result is larger than twice the leaf count of optimal."
    else: #result contains complex but optimal is not
        grade = "C"
        grade_annotation = "Result contains complex when optimal does not."
    else: # result do not contain complex, this assumes optimal do not as well
        if leaf_count_result <= 2*leaf_count_optimal:
            grade = "A"
            grade_annotation = ""
        else:
            grade = "B"
            grade_annotation = "Leaf count of result is larger than twice the leaf count of optimal. "+str(leaf_count_result/leaf_count_optimal)
    else:
        grade = "C"
        grade_annotation = "Result contains higher order function than in optimal. Order "+str(ExpnType(result).order)

    #print("Before returning. grade=",grade, " grade_annotation=",grade_annotation)

    return grade, grade_annotation

```

5.1.4 SageMath grading function

```

#Dec 24, 2019. Nasser: Ported original Maple grading function by
#      Albert Rich to use with Sagemath. This is used to
#      grade Fricas, Giac and Maxima results.
#Dec 24, 2019. Nasser: Added 'exp_integral_e' and 'sng', 'sin_integral'
#      'arctan2', 'floor', 'abs', 'log_integral'
#June 4, 2022 Made default grade_annotation "none" instead of "" due
#      issue later when reading the file.
#July 14, 2022. Added ellipticF. This is until they fix sagemath, then remove it.

from sage.all import *
from sage.symbolic.operators import add_vararg, mul_vararg

debug=False;

def tree_size(expr):

```

```

r"""
Return the tree size of this expression.
"""

#print("Enter tree_size, expr is ",expr)

if expr not in SR:
    # deal with lists, tuples, vectors
    return 1 + sum(tree_size(a) for a in expr)
expr = SR(expr)
x, aa = expr.operator(), expr.operands()
if x is None:
    return 1
else:
    return 1 + sum(tree_size(a) for a in aa)

def is_sqrt(expr):
    if expr.operator() == operator.pow: #instance(expr,Pow):
        if expr.operands()[1]==1/2: #expr.args[1] == Rational(1,2):
            if debug: print ("expr is sqrt")
            return True
        else:
            return False
    else:
        return False

def is_elementary_function(func):
    #debug=False
    m = func.name() in ['exp','log','ln',
        'sin','cos','tan','cot','sec','csc',
        'arcsin','arccos','arctan','arccot','arcsec','arccsc',
        'sinh','cosh','tanh','coth','sech','csch',
        'arcsinh','arccosh','arctanh','arccoth','arcsech','arccsch','sgn',
        'arctan2','floor','abs'
    ]
    if debug:
        if m:
            print ("func ", func , " is elementary_function")
        else:
            print ("func ", func , " is NOT elementary_function")

```

```

return m

def is_special_function(func):
    #debug=False
    if debug:
        print ("type(func)=", type(func))

    m= func.name() in ['erf','erfc','erfi','fresnel_sin','fresnel_cos','Ei',
        'Ei','Li','Si','sin_integral','Ci','cos_integral','Shi','sinh_integral',
        'Chi','cosh_integral','gamma','log_gamma','psi,zeta',
        'polylog','lambert_w','elliptic_f','elliptic_e','ellipticF',
        'elliptic_pi','exp_integral_e','log_integral']

    if debug:
        print ("m=",m)
        if m:
            print ("func ", func , " is special_function")
        else:
            print ("func ", func , " is NOT special_function")

    return m

def is_hypergeometric_function(func):
    return func.name() in ['hypergeometric','hypergeometric_M','hypergeometric_U']

def is_appell_function(func):
    return func.name() in ['hypergeometric'] #[appellf1] can't find this in sagemath

def is_atom(expn):

    #debug=False
    if debug:
        print ("Enter is_atom, expn=",expn)

    if not hasattr(expn, 'parent'):
        return False

#thanks to answer at https://ask.sagemath.org/question/49179/what-is-sagemath-equivalent-to-atomic

```



```

try:
    if expn.parent() is SR:
        return expn.operator() is None
    if expn.parent() in (ZZ, QQ, AA, QQbar):
        return expn in expn.parent() # Should always return True
    if hasattr(expn.parent(), "base_ring") and hasattr(expn.parent(), "gens"):
        return expn in expn.parent().base_ring() or expn in expn.parent().gens()

    return False

except AttributeError as error:
    print("Exception,AttributeError in is_atom")
    print("caught exception", type(error).__name__)
    return False

def expnType(expn):

    if debug:
        print(">>>>>Enter expnType, expn=", expn)
        print(">>>>>is_atom(expn)=", is_atom(expn))

    if is_atom(expn):
        return 1
    elif type(expn)==list: #isinstance(expn,list):
        return max(map(expnType, expn)) #apply(max,map(ExpnType,expn))
    elif is_sqrt(expn):
        if type(expn.operands()[0])==Rational: #type(isinstance(expn.args[0],Rational):
            return 1
        else:
            return max(2,expnType(expn.operands()[0])) #max(2,expnType(expn.args[0]))
    elif expn.operator() == operator.pow: #isinstance(expn,Pow)
        if type(expn.operands()[1])==Integer: #isinstance(expn.args[1],Integer)
            return expnType(expn.operands()[0]) #expnType(expn.args[0])
        elif type(expn.operands()[1])==Rational: #isinstance(expn.args[1],Rational)
            if type(expn.operands()[0])==Rational: #isinstance(expn.args[0],Rational)
                return 1
            else:
                return max(2,expnType(expn.operands()[0])) #max(2,expnType(expn.args[0]))
        else:
            return max(3,expnType(expn.operands()[0]),expnType(expn.operands()[1])) #max(3,expnType(expn

```

```

elif expn.operator() == add_vararg or expn.operator() == mul_vararg: #isinstance(expn,Add) or isin
    m1 = expnType(expn.operands()[0]) #expnType(expn.args[0])
    m2 = expnType(expn.operands()[1:]) #expnType(list(expn.args[1:]))
    return max(m1,m2) #max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
elif is_elementary_function(expn.operator()): #is_elementary_function(expn.func)
    return max(3,expnType(expn.operands()[0]))
elif is_special_function(expn.operator()): #is_special_function(expn.func)
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(4,m1) #max(4,m1)
elif is_hypergeometric_function(expn.operator()): #is_hypergeometric_function(expn.func)
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(5,m1) #max(5,m1)
elif is_appell_function(expn.operator()):
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(6,m1) #max(6,m1)
elif str(expn).find("Integral") != -1: #this will never happen, since it
    #is checked before calling the grading function that is passed.
    #but kept it here.
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(8,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
else:
    return 9

#main function
def grade_antiderivative(result,optimal):

    if debug:
        print("Enter grade_antiderivative for sagemath")
        print("Enter grade_antiderivative, result=",result)
        print("Enter grade_antiderivative, optimal=",optimal)
        print("type(anti)=",type(result))
        print("type(optimal)=",type(optimal))

    leaf_count_result = tree_size(result) #leaf_count(result)
    leaf_count_optimal = tree_size(optimal) #leaf_count(optimal)

    #if debug: print("leaf_count_result=", leaf_count_result, "leaf_count_optimal=",leaf_count_optimal)

    expnType_result = expnType(result)

```

```

expnType_optimal = expnType(optimal)

if debug: print ("expnType_result=", expnType_result, "expnType_optimal=",expnType_optimal)

if expnType_result <= expnType_optimal:
    if result.has(I):
        if optimal.has(I): #both result and optimal complex
            if leaf_count_result <= 2*leaf_count_optimal:
                grade = "A"
                grade_annotation = " "
            else:
                grade = "B"
                grade_annotation = "Both result and optimal contain complex but leaf count of result is larger"
        else: #result contains complex but optimal is not
            grade = "C"
            grade_annotation = "Result contains complex when optimal does not."
    else: # result do not contain complex, this assumes optimal do not as well
        if leaf_count_result <= 2*leaf_count_optimal:
            grade = "A"
            grade_annotation = " "
        else:
            grade = "B"
            grade_annotation = "Leaf count of result is larger than twice the leaf count of optimal. "+str(leaf_count_result - 2*leaf_count_optimal)
    else:
        grade = "C"
        grade_annotation = "Result contains higher order function than in optimal. Order "+str(expnType_result - expnType_optimal)

print("Before returning. grade=",grade, " grade_annotation=",grade_annotation)

return grade, grade_annotation

```

5.2 Listing of all Rubi rules

This section lists all 7297 rules for Rubi version 4.17.2 used.

1. $\text{Int}[(u_)*((a_)+(b_)*(x_)^{(n_)})^{(p_)}, x_Symbol] \rightarrow \text{Int}[u*(b*x^n)^p, x] /; \text{FreeQ}\{a, b, n, p\}, x \ \&\& \ \text{EqQ}[a, 0]$
2. $\text{Int}[(u_)*((a_)+(b_)*(x_)^{(n_)})^{(p_)}, x_Symbol] \rightarrow \text{Int}[u*a^p, x] /; \text{FreeQ}\{a, b, n, p\}, x \ \&\& \ \text{EqQ}[b, 0]$
3. $\text{Int}[(u_)*((a_)+(c_)*(x_)^{(j_)}+(b_)*(x_)^{(n_)})^{(p_)}, x_Symbol] \rightarrow \text{Int}[u*(b*x^n + c*x^{(2*n)})^p, x] /; \text{FreeQ}\{a, b, c, n, p\}, x \ \&\& \ \text{EqQ}[j, 2*n] \ \&\& \ \text{EqQ}[a, 0]$
4. $\text{Int}[(u_)*((a_)+(c_)*(x_)^{(j_)}+(b_)*(x_)^{(n_)})^{(p_)}, x_Symbol] \rightarrow \text{Int}[u*(a + c*x^{(2*n)})^p, x] /; \text{FreeQ}\{a, b, c, n, p\}, x \ \&\& \ \text{EqQ}[j, 2*n] \ \&\& \ \text{EqQ}[b, 0]$
5. $\text{Int}[(u_)*((a_)+(c_)*(x_)^{(j_)}+(b_)*(x_)^{(n_)})^{(p_)}, x_Symbol] \rightarrow \text{Int}[u*(a + b*x^n)^p, x] /; \text{FreeQ}\{a, b, c, n, p\}, x \ \&\& \ \text{EqQ}[j, 2*n] \ \&\& \ \text{EqQ}[c, 0]$
6. $\text{Int}[(u_)*((v_)+(a_)*(Fx_)+(b_)*(Fx_))^{(p_)}, x_Symbol] \rightarrow \text{Int}[u*(v + (a + b)*Fx)^p, x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ !\text{FreeQ}[Fx, x]$
7. $\text{Int}[(u_)*(Px_)^{(p_)}, x_Symbol] \rightarrow \text{Int}[u*Px^{\text{Simplify}[p]}, x] /; \text{PolyQ}[Px, x] \ \&\& \ !\text{RationalQ}[p] \ \&\& \ \text{FreeQ}[p, x] \ \&\& \ \text{RationalQ}[\text{Simplify}[p]]$
8. $\text{Int}[(u_)*(x_)^{(m_)*((a_)*(x_))^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/a^m \ \text{Int}[u*(a*x)^{(m + p)}, x], x] /; \text{FreeQ}\{a, m, p\}, x \ \&\& \ \text{IntegerQ}[m]$
9. $\text{Int}[(u_)*(Px_)^{(p_)*((e_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{With}\{r = \text{Expon}[Px, x, \text{Min}]\}, \text{Simp}[1/e^{(p*r)} \ \text{Int}[u*(e*x)^{(m + p*r)}*\text{ExpandToSum}[Px/x^r, x]^p, x], x] /; \text{IGtQ}[r, 0] /; \text{FreeQ}\{e, m\}, x \ \&\& \ \text{PolyQ}[Px, x] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ !\text{MonomialQ}[Px, x]$

10. $\text{Int}[(u_)*(e_)*(x_)]^{(m_)}*((a_)*(x_)]^{(r_)} + (b_)*(x_)]^{(s_)]^{(p_)}, x_Symbol] := \text{Simp}[1/e^{(p*r)} \text{Int}[u*(e*x)^{(m+p*r)}*(a+b*x^{(s-r)})^p, x], x] /; \text{FreeQ}[\{a, b, e, m, r, s\}, x] \&\& \text{IntegerQ}[p] \&\& (\text{IntegerQ}[p*r] \parallel \text{GtQ}[e, 0]) \&\& \text{PosQ}[s-r]$
11. $\text{Int}[(u_)*(e_)*(x_)]^{(m_)}*((a_)*(x_)]^{(r_)} + (b_)*(x_)]^{(s_)} + (c_)*(x_)]^{(t_)]^{(p_)}, x_Symbol] := \text{Simp}[1/e^{(p*r)} \text{Int}[u*(e*x)^{(m+p*r)}*(a+b*x^{(s-r)}+c*x^{(t-r)})^p, x], x] /; \text{FreeQ}[\{a, b, c, e, m, r, s, t\}, x] \&\& \text{IntegerQ}[p] \&\& (\text{IntegerQ}[p*r] \parallel \text{GtQ}[e, 0]) \&\& \text{PosQ}[s-r] \&\& \text{PosQ}[t-r]$
12. $\text{Int}[(u_)*(e_)*(x_)]^{(m_)}*((d_)*(x_)]^{(q_)} + (a_)*(x_)]^{(r_)} + (b_)*(x_)]^{(s_)} + (c_)*(x_)]^{(t_)]^{(p_)}, x_Symbol] := \text{Simp}[1/e^{(p*r)} \text{Int}[u*(e*x)^{(m+p*r)}*(a+b*x^{(s-r)}+c*x^{(t-r)}+d*x^{(q-r)})^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, r, s, t, q\}, x] \&\& \text{IntegerQ}[p] \&\& (\text{IntegerQ}[p*r] \parallel \text{GtQ}[e, 0]) \&\& \text{PosQ}[s-r] \&\& \text{PosQ}[t-r] \&\& \text{PosQ}[q-r]$
13. $\text{Int}[(u_)*(v_)*((a_)+(b_)*(x_)]^{(n_)]^{(mm_)}*((c_)+(d_)*(x_)]^{(n2_)]^{(m_)]^{(p_)}, x_Symbol] := \text{Int}[u*(v*(c^m/a^{(2*m)})*(a-b*x^n)^m)^p, x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2*c+a^2*d, 0] \&\& \text{IntegersQ}[m, mm] \&\& \text{EqQ}[m+mm, 0]$
14. $\text{Int}[(a_)/(x_), x_Symbol] := \text{Simp}[a*\text{Log}[x], x] /; \text{FreeQ}[a, x]$
15. $\text{Int}[(a_)*(x_)]^{(m_)}, x_Symbol] := \text{Simp}[a*(x^{(m+1)})/(m+1), x] /; \text{FreeQ}[\{a, m\}, x] \&\& \text{NeQ}[m, -1]$
16. $\text{Int}[(c_)/((a_)+(b_)*(x_)), x_Symbol] := \text{Simp}[c*(\text{Log}[\text{RemoveContent}[a+b*x, x]]/b), x] /; \text{FreeQ}[\{a, b, c\}, x]$
17. $\text{Int}[(c_)*((a_)+(b_)*(x_)]^{(m_)}, x_Symbol] := \text{Simp}[c*((a+b*x)^{(m+1)})/(b*(m+1)), x] /; \text{FreeQ}[\{a, b, c, m\}, x] \&\& \text{NeQ}[m, -1]$
18. $\text{Int}[(c_)*((a_)+(b_)*(u_)]^{(m_)}, x_Symbol] := \text{Simp}[1/D[u, x] \text{Subst}[\text{Int}[c*(a+b*x)^m, x], x, u], x] /; \text{FreeQ}[\{a, b, c, m\}, x] \&\& \text{LinearQ}[a+b*x, x]$

rQ[u, x] && NeQ[u, x]

19. $\text{Int}[\frac{(a_)}{(x_)}^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(-a)*\frac{(a/x)^{(p-1)}}{(p-1)}, x] /; \text{FreeQ}[\{a, p\}, x] \ \&\& \ !\text{IntegerQ}[p]$
20. $\text{Int}[\frac{(a_)*(x_)^{(n_)}^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(a*x^n)^p/x^{(n*p)} \ \text{Int}[x^{(n*p)}, x], x] /; \text{FreeQ}[\{a, n, p\}, x] \ \&\& \ !\text{IntegerQ}[p]$
21. $\text{Int}[(x_)^{(m_)*((a_)*(x_)^{(n_)}^{(p_)}), x_Symbol] \rightarrow \text{Simp}[1/(n*a^{(\text{Simplify}[(m+1)/n] - 1)) \ \text{Subst}[\text{Int}[(a*x)^{(\text{Simplify}[(m+1)/n] + p - 1)}, x], x, x^n], x] /; \text{FreeQ}[\{a, m, n, p\}, x] \ \&\& \ \text{IntegerQ}[\text{Simplify}[(m+1)/n]]$
22. $\text{Int}[(x_)^{(m_)*((a_)*(x_)^{(n_)}^{(p_)}), x_Symbol] \rightarrow \text{Simp}[1/a^{(m/n)} \ \text{Int}[(a*x^n)^{(p+m/n)}, x], x] /; \text{FreeQ}[\{a, m, n, p\}, x] \ \&\& \ \text{IntegerQ}[m/n] \ \&\& \ \text{LtQ}[p*(m/n), 0]$
23. $\text{Int}[(x_)^{(m_)*((a_)*(x_)^{(n_)}^{(p_)}), x_Symbol] \rightarrow \text{Simp}[(a*x^n)^p/x^{(n*p)} \ \text{Int}[x^{(m+n*p)}, x], x] /; \text{FreeQ}[\{a, m, n, p\}, x]$
24. $\text{Int}[a_, x_Symbol] \rightarrow \text{Simp}[a*x, x] /; \text{FreeQ}[a, x]$
25. $\text{Int}[-(Fx_), x_Symbol] \rightarrow \text{Simp}[\text{Identity}[-1] \ \text{Int}[Fx, x], x]$
26. $\text{Int}[(\text{Complex}[0, a_])*(Fx_), x_Symbol] \rightarrow \text{Simp}[(\text{Complex}[\text{Identity}[0], a]) \ \text{Int}[Fx, x], x] /; \text{FreeQ}[a, x] \ \&\& \ \text{EqQ}[a^2, 1]$
27. $\text{Int}[(a_)*(Fx_), x_Symbol] \rightarrow \text{Simp}[a \ \text{Int}[Fx, x], x] /; \text{FreeQ}[a, x] \ \&\& \ !\text{MatchQ}[Fx, (b_)*(Gx_)] /; \text{FreeQ}[b, x]$
28. $\text{Int}[(u_)*((a_)*(x_))^{(m_)*((b_)*(x_)^{(i_)}^{(p_)*((c_)*(x_)^{(j_)}^{(q_)*((d_)*(x_)^{(k_)}^{(r_)}), x_Symbol] \rightarrow \text{Simp}[(b*x^i)^p*(c*x^j)^q*((d*x^k)^r/(a*x)^{(i*p+j*q+k*r)) \ \text{Int}[u*(a*x)^{(m+i*p+j*q+k*r)}, x], x] /; \text{FreeQ}[\{a, b, c, d, i, j, k, m, p, q, r\}, x]$

29. $\text{Int}[(u_)*(a_)*(x_)]^{(m_)}*((b_)*(x_)]^{(i_)]^{(p_)}*((c_)*(x_)]^{(j_)} \\]^{(q_)}, x_Symbol] := \text{Simp}[(b*x^i)^p*(c*x^j)^q/(a*x)^{(i*p + j*q)} \\ \text{Int}[u*(a*x)^{(m + i*p + j*q)}, x], x] /; \text{FreeQ}\{a, b, c, i, j, m, p, q\}, \\ x]$
30. $\text{Int}[(u_)*(a_)*(x_)]^{(m_)}*((b_)*(x_)]^{(i_)]^{(p_)}, x_Symbol] := \text{Sim} \\ p[b^{\text{IntPart}[p]}*(b*x^i)^{\text{FracPart}[p]}/(a^{(i*\text{IntPart}[p])}*(a*x)^{(i*\text{FracPar} \\ t[p]))} \text{Int}[u*(a*x)^{(m + i*p)}, x], x] /; \text{FreeQ}\{a, b, i, m, p\}, x] \& \\ \& \text{IntegerQ}[i] \&\& \text{!IntegerQ}[p]$
31. $\text{Int}[(u_)*(a_)*(x_)]^{(m_)}*((b_)*(x_)]^{(i_)]^{(p_)}, x_Symbol] := \text{Sim} \\ p[(b*x^i)^p/(a*x)^{(i*p)} \text{Int}[u*(a*x)^{(m + i*p)}, x], x] /; \text{FreeQ}\{a, b \\ , i, m, p\}, x] \&\& \text{!IntegerQ}[p]$
32. $\text{Int}[(u_)*((c_)*(x_)]^{(k_)]^{(r_)}*((a_)*(x_)]^{(m_)]^{(p_)}*((b_)*(x_)]^{(n_)} \\]^{(q_)}, x_Symbol] := \text{Simp}[(a*x^m)^p*(b*x^n)^q*((c*x^k)^r/x^{(m*p + \\ n*q + k*r)} \text{Int}[u*x^{(m*p + n*q + k*r)}, x], x] /; \text{FreeQ}\{a, b, c, m, \\ n, k, p, q, r\}, x]$
33. $\text{Int}[(u_)*((a_)*(x_)]^{(m_)]^{(p_)}*((b_)*(x_)]^{(n_)]^{(q_)}, x_Symbol] : \\ > \text{Simp}[a^{\text{IntPart}[p]}*b^{\text{IntPart}[q]}*(a*x^m)^{\text{FracPart}[p]}*((b*x^n)^{\text{FracPart} \\ [q]}/x^{(m*\text{FracPart}[p] + n*\text{FracPart}[q]))} \text{Int}[u*x^{(m*p + n*q)}, x], x] / \\ ; \text{FreeQ}\{a, b, m, n, p, q\}, x]$
34. $\text{Int}[(u_)*((a_)*(x_)]^{(m_)]^{(p_)}, x_Symbol] := \text{Simp}[a^{\text{IntPart}[p]}*((a*x \\ ^m)^{\text{FracPart}[p]}/x^{(m*\text{FracPart}[p]))} \text{Int}[u*x^{(m*p)}, x], x] /; \text{FreeQ}\{a \\ , m, p\}, x] \&\& \text{!IntegerQ}[p]$
35. $\text{Int}[(u_)*((a_ + (b_)*(x_)]^{(m_)}*((c_ + (d_)*(x_)]^{(n_)}), x_Symbo \\ l] := \text{Simp}[(b/d)^m \text{Int}[u*(c + d*x)^{(m + n)}, x], x] /; \text{FreeQ}\{a, b, c \\ , d, m, n\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{IntegerQ}[m] \&\& \text{!(IntegerQ}[n] \& \\ \& \text{SimplerQ}[a + b*x, c + d*x])$
36. $\text{Int}[(u_)*((a_ + (b_)*(x_)]^{(m_)}*((c_ + (d_)*(x_)]^{(n_)}), x_Symbol] \\ := \text{Simp}[(b/d)^m \text{Int}[u*(c + d*x)^{(m + n)}, x], x] /; \text{FreeQ}\{a, b, c, \\ d, m, n\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{GtQ}[b/d, 0] \&\& \text{!SimplerQ}[a + b*x$

- , $c + d*x]$
37. $\text{Int}[(u_)*((a_)+(b_)*(x_))^{(m_)}*((c_)+(d_)*(x_))^{(n_)}, x_Symbol]$
 $:\> \text{Simp}[(a + b*x)^m/(c + d*x)^m \text{ Int}[u*(c + d*x)^{(m+n)}, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& \text{EqQ}[b*c - a*d, 0] \&\& !\text{SimplerQ}[a + b*$
 $x, c + d*x]$
38. $\text{Int}[((a_)+(b_)*(x_))^{(m_)}*((c_)+(d_)*(x_)), x_Symbol] :\> \text{Simp}[d$
 $*x*((a + b*x)^{(m+1)}/(b*(m+2))), x] /;$ $\text{FreeQ}\{a, b, c, d, m\}, x\} \&\&$
 $\text{EqQ}[a*d - b*c*(m+2), 0]$
39. $\text{Int}[((a_)+(b_)*(x_))^{(m_)}*((c_)+(d_)*(x_))^{(m_)}, x_Symbol] :\>$
 $\text{Int}[(a*c + b*d*x^2)^m, x] /;$ $\text{FreeQ}\{a, b, c, d, m\}, x\} \&\& \text{EqQ}[b*c + a*$
 $d, 0] \&\& (\text{IntegerQ}[m] \mid\mid (\text{GtQ}[a, 0] \&\& \text{GtQ}[c, 0]))$
40. $\text{Int}[((a_)+(b_)*(x_))^{(m_)}*((c_)+(d_)*(x_))^{(m_)}, x_Symbol] :\> \text{Si}$
 $\text{mp}[x*(a + b*x)^m*((c + d*x)^m/(2*m + 1)), x] + \text{Simp}[2*a*c*(m/(2*m + 1)$
 $) \text{ Int}[(a + b*x)^{(m-1)}*(c + d*x)^{(m-1)}, x], x] /;$ $\text{FreeQ}\{a, b, c,$
 $d\}, x\} \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{IGtQ}[m + 1/2, 0]$
41. $\text{Int}[1/(((a_)+(b_)*(x_))^{(3/2)}*((c_)+(d_)*(x_))^{(3/2)}), x_Symbol]$
 $:\> \text{Simp}[x/(a*c*\text{Sqrt}[a + b*x]*\text{Sqrt}[c + d*x]), x] /;$ $\text{FreeQ}\{a, b, c, d\}$
 $, x\} \&\& \text{EqQ}[b*c + a*d, 0]$
42. $\text{Int}[((a_)+(b_)*(x_))^{(m_)}*((c_)+(d_)*(x_))^{(m_)}, x_Symbol] :\> \text{Si}$
 $\text{mp}[(-x)*(a + b*x)^{(m+1)}*((c + d*x)^{(m+1)}/(2*a*c*(m+1))), x] + \text{Si}$
 $\text{mp}[(2*m + 3)/(2*a*c*(m+1)) \text{ Int}[(a + b*x)^{(m+1)}*(c + d*x)^{(m+1)}$
 $, x], x] /;$ $\text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{ILtQ}[m + 3/$
 $2, 0]$
43. $\text{Int}[1/(\text{Sqrt}[(a_)+(b_)*(x_)]*\text{Sqrt}[(c_)+(d_)*(x_)]), x_Symbol] :\>$
 $\text{Simp}[\text{ArcCosh}[b*(x/a)]/(b*\text{Sqrt}[d/b]), x] /;$ $\text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{E}$
 $\text{qQ}[b*c + a*d, 0] \&\& \text{GtQ}[a, 0] \&\& \text{GtQ}[d/b, 0]$
44. $\text{Int}[1/(\text{Sqrt}[(a_)+(b_)*(x_)]*\text{Sqrt}[(c_)+(d_)*(x_)]), x_Symbol] :\>$
 $\text{Simp}[2/(b*\text{Sqrt}[c]) \text{ Subst}[\text{Int}[1/\text{Sqrt}[2 - x^2/a], x], x, \text{Sqrt}[a + b*x]$

-], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c + a*d, 0] && GtQ[c, 0]
45. Int[1/(Sqrt[(a_) + (b_)*(x_)]*Sqrt[(c_) + (d_)*(x_)]), x_Symbol] :> Simp[2 Subst[Int[1/(b - d*x^2), x], x, Sqrt[a + b*x]/Sqrt[c + d*x]], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c + a*d, 0] && !GtQ[c, 0]
46. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :> Simp[(a + b*x)^FracPart[m]*((c + d*x)^FracPart[m]/(a*c + b*d*x^2)^FracPart[m]) Int[(a*c + b*d*x^2)^m, x], x] /; FreeQ[{a, b, c, d, m}, x] && EqQ[b*c + a*d, 0] && !IntegerQ[2*m]
47. Int[1/(((a_) + (b_)*(x_))*((c_) + (d_)*(x_))), x_Symbol] :> Simp[b/(b*c - a*d) Int[1/(a + b*x), x], x] - Simp[d/(b*c - a*d) Int[1/(c + d*x), x], x] /; FreeQ[{a, b, c, d}, x]
48. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :> Simp[(a + b*x)^(m + 1)*((c + d*x)^(n + 1)/((b*c - a*d)*(m + 1))), x] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[m + n + 2, 0] && NeQ[m, -1]
49. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :> Int[ExpandIntegrand[(a + b*x)^m*(c + d*x)^n, x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[m, 0] && IGtQ[m + n + 2, 0]
50. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :> Simp[(a*c + b*d*x^2)^m/(2*d*m), x] + Simp[a Int[(a*c + b*d*x^2)^n, x], x] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[b*c + a*d, 0] && EqQ[m - n, 1] && GtQ[m, 0] && (IntegerQ[m] || (GtQ[a, 0] && GtQ[c, 0]))
51. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :> Simp[(a + b*x)^(m + 1)*((c + d*x)^n/(b*(m + 1))), x] - Simp[d*(n/(b*(m + 1))) Int[(a + b*x)^(m + 1)*(c + d*x)^(n - 1), x], x] /; FreeQ[{a, b, c, d, n}, x] && ILtQ[m, -1] && FractionQ[n] && GtQ[n, 0]
52. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :> Simp[(a + b*x)^(m + 1)*((c + d*x)^(n + 1)/((b*c - a*d)*(m + 1))), x] - Simp[d*(m + n + 2)/((b*c - a*d)*(m + 1)) Int[(a + b*x)^(m + 1)*(c

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+ d*x)^n, x], x] /; FreeQ[{a, b, c, d, n}, x] && ILtQ[m, -1] && Fract
ionQ[n] && LtQ[n, 0]

53. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :
> Int[ExpandIntegrand[(a + b*x)^m*(c + d*x)^n, x], x] /; FreeQ[{a, b,
c, d, n}, x] && IGtQ[m, 0] && (!IntegerQ[n] || (EqQ[c, 0] && LeQ[7*m
+ 4*n + 4, 0]) || LtQ[9*m + 5*(n + 1), 0] || GtQ[m + n + 2, 0])

54. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :>
Int[ExpandIntegrand[(a + b*x)^m*(c + d*x)^n, x], x] /; FreeQ[{a, b, c,
d}, x] && ILtQ[m, 0] && IntegerQ[n] && !(IGtQ[n, 0] && LtQ[m + n + 2
, 0])

55. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :>
Simp[(a + b*x)^(m + 1)*((c + d*x)^(n + 1)/((b*c - a*d)*(m + 1))), x] -
Simp[d*(Simplify[m + n + 2]/((b*c - a*d)*(m + 1))) Int[(a + b*x)^Si
mplify[m + 1]*(c + d*x)^n, x], x] /; FreeQ[{a, b, c, d, m, n}, x] && I
LtQ[Simplify[m + n + 2], 0] && NeQ[m, -1] && !(LtQ[m, -1] && LtQ[n, -
1] && (EqQ[a, 0] || (NeQ[c, 0] && LtQ[m - n, 0] && IntegerQ[n]))) && (
SumSimplerQ[m, 1] || !SumSimplerQ[n, 1])

56. Int[1/(((a_) + (b_)*(x_))^(9/4)*((c_) + (d_)*(x_))^(1/4)), x_Symbol]
:> Simp[-4/(5*b*(a + b*x)^(5/4)*(c + d*x)^(1/4)), x] - Simp[d/(5*b)
Int[1/((a + b*x)^(5/4)*(c + d*x)^(5/4)), x], x] /; FreeQ[{a, b, c, d}
, x] && EqQ[b*c + a*d, 0] && NegQ[a^2*b^2]

57. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_), x_Symbol] :>
Simp[(a + b*x)^(m + 1)*((c + d*x)^n/(b*(m + 1))), x] - Simp[d*(n/(b*(m
+ 1))) Int[(a + b*x)^(m + 1)*(c + d*x)^(n - 1), x], x] /; FreeQ[{a,
b, c, d}, x] && GtQ[n, 0] && LtQ[m, -1] && !(IntegerQ[n] && !Intege
rQ[m]) && !(ILeQ[m + n + 2, 0] && (FractionQ[m] || GeQ[2*n + m + 1, 0
])) && IntLinearQ[a, b, c, d, m, n, x]

58. Int[1/(((a_) + (b_)*(x_))^(5/4)*((c_) + (d_)*(x_))^(1/4)), x_Symbol]
:> Simp[-2/(b*(a + b*x)^(1/4)*(c + d*x)^(1/4)), x] + Simp[c Int[1/(
(a + b*x)^(5/4)*(c + d*x)^(5/4)), x], x] /; FreeQ[{a, b, c, d}, x] &&

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EqQ[b\*c + a\*d, 0] && NegQ[a^2\*b^2]

59.  $\text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^n, x\_Symbol] \rightarrow \text{Simp}[(a + b \cdot x)^{m+1} \cdot (c + d \cdot x)^n / (b \cdot (m + n + 1)), x] + \text{Simp}[2 \cdot c \cdot (n / (m + n + 1)) \cdot \text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^{n-1}, x], x] /;$  FreeQ[{a, b, c, d}, x] && EqQ[b\*c + a\*d, 0] && IGtQ[m + 1/2, 0] && IGtQ[n + 1/2, 0] && LtQ[m, n]
60.  $\text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^n, x\_Symbol] \rightarrow \text{Simp}[(a + b \cdot x)^{m+1} \cdot (c + d \cdot x)^n / (b \cdot (m + n + 1)), x] + \text{Simp}[n \cdot (b \cdot c - a \cdot d) / (b \cdot (m + n + 1)) \cdot \text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^{n-1}, x], x] /;$  FreeQ[{a, b, c, d}, x] && GtQ[n, 0] && NeQ[m + n + 1, 0] && !(IGtQ[m, 0] && (!IntegerQ[n] || (GtQ[m, 0] && LtQ[m - n, 0]))) && !ILtQ[m + n + 2, 0] && IntLinearQ[a, b, c, d, m, n, x]
61.  $\text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^n, x\_Symbol] \rightarrow \text{Simp}[(a + b \cdot x)^{m+1} \cdot (c + d \cdot x)^{n+1} / ((b \cdot c - a \cdot d) \cdot (m + 1)), x] - \text{Simp}[d \cdot (m + n + 2) / ((b \cdot c - a \cdot d) \cdot (m + 1)) \cdot \text{Int}[(a + b \cdot x)^{m+1} \cdot (c + d \cdot x)^n, x], x] /;$  FreeQ[{a, b, c, d, n}, x] && LtQ[m, -1] && !(LtQ[n, -1] && (EqQ[a, 0] || (NeQ[c, 0] && LtQ[m - n, 0] && IntegerQ[n]))) && IntLinearQ[a, b, c, d, m, n, x]
62.  $\text{Int}[1 / (\text{Sqrt}[a + b \cdot x] \cdot \text{Sqrt}[c + d \cdot x]), x\_Symbol] \rightarrow \text{Int}[1 / \text{Sqrt}[a \cdot c - b \cdot (a - c) \cdot x - b^2 \cdot x^2], x] /;$  FreeQ[{a, b, c, d}, x] && EqQ[b + d, 0] && GtQ[a + c, 0]
63.  $\text{Int}[1 / (\text{Sqrt}[b \cdot x] \cdot \text{Sqrt}[c + d \cdot x]), x\_Symbol] \rightarrow \text{Simp}[2 / b \cdot \text{Subst}[\text{Int}[1 / \text{Sqrt}[c + d \cdot (x^2/b)], x], x, \text{Sqrt}[b \cdot x]], x] /;$  FreeQ[{b, c, d}, x] && GtQ[c, 0]
64.  $\text{Int}[1 / (\text{Sqrt}[a + b \cdot x] \cdot \text{Sqrt}[c + d \cdot x]), x\_Symbol] \rightarrow \text{Simp}[2 / b \cdot \text{Subst}[\text{Int}[1 / \text{Sqrt}[c - a \cdot (d/b) + d \cdot (x^2/b)], x], x, \text{Sqrt}[a + b \cdot x]], x] /;$  FreeQ[{a, b, c, d}, x] && GtQ[c - a \cdot (d/b), 0] && (!GtQ[a - c \cdot (b/d), 0] || PosQ[b])

65. `Int[1/(Sqrt[(b_.)*(x_)]*Sqrt[(c_) + (d_.)*(x_)]), x_Symbol] := Simp[2  
Subst[Int[1/(b - d*x^2), x], x, Sqrt[b*x]/Sqrt[c + d*x]], x] /; Free  
Q[{b, c, d}, x] && !GtQ[c, 0]`
66. `Int[1/(Sqrt[(a_) + (b_.)*(x_)]*Sqrt[(c_) + (d_.)*(x_)]), x_Symbol] :=  
Simp[2 Subst[Int[1/(b - d*x^2), x], x, Sqrt[a + b*x]/Sqrt[c + d*x]],  
x] /; FreeQ[{a, b, c, d}, x] && !GtQ[c - a*(d/b), 0]`
67. `Int[1/(((a_.) + (b_.)*(x_))*((c_.) + (d_.)*(x_))^(1/3)), x_Symbol] :=  
With[{q = Rt[(b*c - a*d)/b, 3]}, Simp[-Log[RemoveContent[a + b*x, x]]/  
(2*b*q), x] + (Simp[3/(2*b) Subst[Int[1/(q^2 + q*x + x^2), x], x, (c  
+ d*x)^(1/3)], x] - Simp[3/(2*b*q) Subst[Int[1/(q - x), x], x, (c +  
d*x)^(1/3)], x])] /; FreeQ[{a, b, c, d}, x] && PosQ[(b*c - a*d)/b]`
68. `Int[1/(((a_.) + (b_.)*(x_))*((c_.) + (d_.)*(x_))^(1/3)), x_Symbol] :=  
With[{q = Rt[-(b*c - a*d)/b, 3]}, Simp[Log[RemoveContent[a + b*x, x]]/  
(2*b*q), x] + (Simp[3/(2*b) Subst[Int[1/(q^2 - q*x + x^2), x], x, (c  
+ d*x)^(1/3)], x] - Simp[3/(2*b*q) Subst[Int[1/(q + x), x], x, (c +  
d*x)^(1/3)], x])] /; FreeQ[{a, b, c, d}, x] && NegQ[(b*c - a*d)/b]`
69. `Int[1/(((a_.) + (b_.)*(x_))*((c_.) + (d_.)*(x_))^(2/3)), x_Symbol] :=  
With[{q = Rt[(b*c - a*d)/b, 3]}, Simp[-Log[RemoveContent[a + b*x, x]]/  
(2*b*q^2), x] + (-Simp[3/(2*b*q) Subst[Int[1/(q^2 + q*x + x^2), x],  
x, (c + d*x)^(1/3)], x] - Simp[3/(2*b*q^2) Subst[Int[1/(q - x), x],  
x, (c + d*x)^(1/3)], x])] /; FreeQ[{a, b, c, d}, x] && PosQ[(b*c - a*d  
) / b]`
70. `Int[1/(((a_.) + (b_.)*(x_))*((c_.) + (d_.)*(x_))^(2/3)), x_Symbol] :=  
With[{q = Rt[-(b*c - a*d)/b, 3]}, Simp[-Log[RemoveContent[a + b*x, x]]  
/(2*b*q^2), x] + (Simp[3/(2*b*q) Subst[Int[1/(q^2 - q*x + x^2), x],  
x, (c + d*x)^(1/3)], x] + Simp[3/(2*b*q^2) Subst[Int[1/(q + x), x],  
x, (c + d*x)^(1/3)], x])] /; FreeQ[{a, b, c, d}, x] && NegQ[(b*c - a*d  
) / b]`
71. `Int[1/(((a_.) + (b_.)*(x_))^(1/3)*((c_.) + (d_.)*(x_))^(2/3)), x_Symbo  
l] := With[{q = Rt[d/b, 3]}, Simp[(-Sqrt[3])*(q/d)*ArcTan[2*q*((a + b*x  
x)^(1/3)/(Sqrt[3]*(c + d*x)^(1/3)))] + 1/Sqrt[3]], x] + (-Simp[3*(q/(2*`

- d))\*Log[q\*((a + b\*x)^(1/3)/(c + d\*x)^(1/3)) - 1], x] - Simp[(q/(2\*d))\*Log[c + d\*x], x]] /; FreeQ[{a, b, c, d}, x] && PosQ[d/b]
72. Int[1/(((a\_.) + (b\_.)\*(x\_))^(1/3)\*((c\_.) + (d\_.)\*(x\_))^(2/3)), x\_Symbol] := With[{q = Rt[-d/b, 3]}, Simp[Sqrt[3]\*(q/d)\*ArcTan[1/Sqrt[3] - 2\*q\*((a + b\*x)^(1/3)/(Sqrt[3]\*(c + d\*x)^(1/3)))], x] + (Simp[3\*(q/(2\*d))\*Log[q\*((a + b\*x)^(1/3)/(c + d\*x)^(1/3)) + 1], x] + Simp[(q/(2\*d))\*Log[c + d\*x], x])] /; FreeQ[{a, b, c, d}, x] && NegQ[d/b]
73. Int[((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_), x\_Symbol] := With[{p = Denominator[m]}, Simp[p/b Subst[Int[x^(p\*(m + 1) - 1)\*(c - a\*(d/b) + d\*(x^p/b))^n, x], x, (a + b\*x)^(1/p)], x]] /; FreeQ[{a, b, c, d}, x] && LtQ[-1, m, 0] && LeQ[-1, n, 0] && LeQ[Denominator[n], Denominator[m]] && IntLinearQ[a, b, c, d, m, n, x]
74. Int[((b\_.)\*(x\_))^(m\_)\*((c\_) + (d\_.)\*(x\_))^(n\_), x\_Symbol] := Simp[c^n\*((b\*x)^(m + 1)/(b\*(m + 1)))\*Hypergeometric2F1[-n, m + 1, m + 2, (-d)\*(x/c)], x] /; FreeQ[{b, c, d, m, n}, x] && !IntegerQ[m] && (IntegerQ[n] || (GtQ[c, 0] && !(EqQ[n, -2^(-1)] && EqQ[c^2 - d^2, 0]) && GtQ[-d/(b\*c), 0]))
75. Int[((b\_.)\*(x\_))^(m\_)\*((c\_) + (d\_.)\*(x\_))^(n\_), x\_Symbol] := Simp[((c + d\*x)^(n + 1)/(d\*(n + 1)\*(-d/(b\*c))^(m)))\*Hypergeometric2F1[-m, n + 1, n + 2, 1 + d\*(x/c)], x] /; FreeQ[{b, c, d, m, n}, x] && !IntegerQ[n] && (IntegerQ[m] || GtQ[-d/(b\*c), 0])
76. Int[((b\_.)\*(x\_))^(m\_)\*((c\_) + (d\_.)\*(x\_))^(n\_), x\_Symbol] := Simp[c^IntPart[n]\*((c + d\*x)^FracPart[n]/(1 + d\*(x/c))^FracPart[n]) Int[(b\*x)^(m\*(1 + d\*(x/c))^n, x], x] /; FreeQ[{b, c, d, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !GtQ[c, 0] && !GtQ[-d/(b\*c), 0] && ((RationalQ[m] && !(EqQ[n, -2^(-1)]) && EqQ[c^2 - d^2, 0])) || !RationalQ[n]
77. Int[((b\_.)\*(x\_))^(m\_)\*((c\_) + (d\_.)\*(x\_))^(n\_), x\_Symbol] := Simp[((-b)\*(c/d))^IntPart[m]\*((b\*x)^FracPart[m]/((-d)\*(x/c))^FracPart[m]) Int[((-d)\*(x/c))^m\*(c + d\*x)^n, x], x] /; FreeQ[{b, c, d, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !GtQ[c, 0] && !GtQ[-d/(b\*c), 0]

78. `Int[((a_) + (b_.)*(x_))^(m_)*((c_) + (d_.)*(x_))^(n_), x_Symbol] := Simp[(b*c - a*d)^n*((a + b*x)^(m + 1)/(b^(n + 1)*(m + 1)))*Hypergeometric2F1[-n, m + 1, m + 2, (-d)*((a + b*x)/(b*c - a*d))], x] /; FreeQ[{a, b, c, d, m}, x] && !IntegerQ[m] && IntegerQ[n]`
79. `Int[((a_) + (b_.)*(x_))^(m_)*((c_) + (d_.)*(x_))^(n_), x_Symbol] := Simp[((a + b*x)^(m + 1)/(b*(m + 1)*(b/(b*c - a*d))^n))*Hypergeometric2F1[-n, m + 1, m + 2, (-d)*((a + b*x)/(b*c - a*d))], x] /; FreeQ[{a, b, c, d, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && GtQ[b/(b*c - a*d), 0] && (RationalQ[m] || !(RationalQ[n] && GtQ[-d/(b*c - a*d), 0]))`
80. `Int[((a_) + (b_.)*(x_))^(m_)*((c_) + (d_.)*(x_))^(n_), x_Symbol] := Simp[(c + d*x)^FracPart[n]/((b/(b*c - a*d))^IntPart[n]*(b*((c + d*x)/(b*c - a*d))^FracPart[n]) Int[(a + b*x)^m*Simp[b*(c/(b*c - a*d)) + b*d*(x/(b*c - a*d)), x]^n, x], x] /; FreeQ[{a, b, c, d, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && (RationalQ[m] || !SimplerQ[n + 1, m + 1])`
81. `Int[((a_.) + (b_.)*(u_))^(m_.)*((c_.) + (d_.)*(u_))^(n_.), x_Symbol] := Simp[1/Coefficient[u, x, 1] Subst[Int[(a + b*x)^m*(c + d*x)^n, x], x, u], x] /; FreeQ[{a, b, c, d, m, n}, x] && LinearQ[u, x] && NeQ[Coefficient[u, x, 0], 0]`
82. `Int[((a_) + (b_.)*(x_))^(m_.)*((c_) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)*(x_))^(p_.), x_] := Int[(a*c + b*d*x^2)^m*(e + f*x)^p, x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && EqQ[b*c + a*d, 0] && EqQ[n, m] && IntegerQ[m]`
83. `Int[((a_.) + (b_.)*(x_))*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)*(x_))^(p_.), x_] := Simp[b*(c + d*x)^(n + 1)*((e + f*x)^(p + 1)/(d*f*(n + p + 2))), x] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && NeQ[n + p + 2, 0] && EqQ[a*d*f*(n + p + 2) - b*(d*e*(n + 1) + c*f*(p + 1)), 0]`
84. `Int[((d_.)*(x_))^(n_.)*((a_) + (b_.)*(x_))*((e_) + (f_.)*(x_))^(p_.), x_] := Int[ExpandIntegrand[(a + b*x)*(d*x)^n*(e + f*x)^p, x], x] /; FreeQ[{a, b, d, e, f, n}, x] && IGtQ[p, 0] && EqQ[b*e + a*f, 0] && !(IL`

tQ[n + p + 2, 0] && GtQ[n + 2\*p, 0])

85. Int[((d\_.)\*(x\_))^(n\_.)\*((a\_) + (b\_.)\*(x\_))\*((e\_) + (f\_.)\*(x\_))^(p\_.), x\_] := Int[ExpandIntegrand[(a + b\*x)\*(d\*x)^n\*(e + f\*x)^p, x], x] /; FreeQ[{a, b, d, e, f, n}, x] && IGtQ[p, 0] && (NeQ[n, -1] || EqQ[p, 1]) && NeQ[b\*e + a\*f, 0] && (!IntegerQ[n] || LtQ[9\*p + 5\*n, 0] || GeQ[n + p + 1, 0] || (GeQ[n + p + 2, 0] && RationalQ[a, b, d, e, f])) && (NeQ[n + p + 3, 0] || EqQ[p, 1])
86. Int[((a\_.) + (b\_.)\*(x\_))\*((c\_) + (d\_.)\*(x\_))^(n\_.)\*((e\_.) + (f\_.)\*(x\_))^(p\_.), x\_] := Int[ExpandIntegrand[(a + b\*x)\*(c + d\*x)^n\*(e + f\*x)^p, x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && ((ILtQ[n, 0] && ILtQ[p, 0]) || EqQ[p, 1] || (IGtQ[p, 0] && (!IntegerQ[n] || LeQ[9\*p + 5\*(n + 2), 0] || GeQ[n + p + 1, 0] || (GeQ[n + p + 2, 0] && RationalQ[a, b, c, d, e, f])))
87. Int[((a\_.) + (b\_.)\*(x\_))\*((c\_.) + (d\_.)\*(x\_))^(n\_.)\*((e\_.) + (f\_.)\*(x\_))^(p\_.), x\_] := Simp[(-(b\*e - a\*f))\*(c + d\*x)^(n + 1)\*((e + f\*x)^(p + 1)/(f\*(p + 1)\*(c\*f - d\*e))), x] - Simp[(a\*d\*f\*(n + p + 2) - b\*(d\*e\*(n + 1) + c\*f\*(p + 1)))/(f\*(p + 1)\*(c\*f - d\*e)) Int[(c + d\*x)^n\*(e + f\*x)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && LtQ[p, -1] && (!LtQ[n, -1] || IntegerQ[p] || !(IntegerQ[n] || !(EqQ[e, 0] || !(EqQ[c, 0] || LtQ[p, n]))))
88. Int[((a\_.) + (b\_.)\*(x\_))\*((c\_.) + (d\_.)\*(x\_))^(n\_.)\*((e\_.) + (f\_.)\*(x\_))^(p\_.), x\_] := Simp[(-(b\*e - a\*f))\*(c + d\*x)^(n + 1)\*((e + f\*x)^(p + 1)/(f\*(p + 1)\*(c\*f - d\*e))), x] - Simp[(a\*d\*f\*(n + p + 2) - b\*(d\*e\*(n + 1) + c\*f\*(p + 1)))/(f\*(p + 1)\*(c\*f - d\*e)) Int[(c + d\*x)^n\*(e + f\*x)^Simplify[p + 1], x], x] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && !RationalQ[p] && SumSimplerQ[p, 1]
89. Int[(((a\_.) + (b\_.)\*(x\_))\*Sqrt[(c\_) + (d\_.)\*(x\_)])/Sqrt[(e\_) + (f\_.)\*(x\_)], x\_] := Simp[Sqrt[c\*e]\*(b\*f\*x - 2\*(b\*e - a\*f))\*(Sqrt[e^2 - f^2\*x^2]/(2\*e\*f^2)), x] - Simp[Sqrt[c\*e]\*(b\*e - 2\*a\*f)\*(ArcSin[f\*(x/e)]/(2\*f^2)), x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[d\*e + c\*f, 0] && GtQ[c, 0] && GtQ[e, 0]

90.  $\text{Int}[\frac{((a_.) + (b_.)(x_))((c_.) + (d_.)(x_))^{(n_.)}((e_.) + (f_.)(x_))^{(p_.)}}{x}] := \text{Simp}[b*(c + d*x)^{(n + 1)}*(e + f*x)^{(p + 1)}/(d*f*(n + p + 2)), x] + \text{Simp}[(a*d*f*(n + p + 2) - b*(d*e*(n + 1) + c*f*(p + 1)))/(d*f*(n + p + 2)) \text{Int}[(c + d*x)^n*(e + f*x)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p\}, x] \&\& \text{NeQ}[n + p + 2, 0]$
91.  $\text{Int}[\frac{((a_.) + (b_.)(x_))^{2*((c_.) + (d_.)(x_))^{(n_.)}((e_.) + (f_.)(x_))^{(p_.)}}{x}] := \text{Simp}[b*(c + d*x)^{(n + 1)}*(e + f*x)^{(p + 1)}*((2*a*d*f*(n + p + 3) - b*(d*e*(n + 2) + c*f*(p + 2)) + b*d*f*(n + p + 2)*x)/(d^2*f^2*(n + p + 2)*(n + p + 3)), x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p\}, x] \&\& \text{NeQ}[n + p + 2, 0] \&\& \text{NeQ}[n + p + 3, 0] \&\& \text{EqQ}[d*f*(n + p + 2)*(a^2*d*f*(n + p + 3) - b*(b*c*e + a*(d*e*(n + 1) + c*f*(p + 1)))) - b*(d*e*(n + 1) + c*f*(p + 1))*(a*d*f*(n + p + 4) - b*(d*e*(n + 2) + c*f*(p + 2))), 0]$
92.  $\text{Int}[\frac{((f_.)(x_))^{(p_.)}((a_.) + (b_.)(x_))^{(m_.)}((c_.) + (d_.)(x_))^{(n_.)}}{x}] := \text{Simp}[a \text{Int}[(a + b*x)^n*(c + d*x)^n*(f*x)^p, x], x] + \text{Simp}[b/f \text{Int}[(a + b*x)^n*(c + d*x)^n*(f*x)^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, f, m, n, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[m - n - 1, 0] \&\& \text{!RationalQ}[p] \&\& \text{!IGtQ}[m, 0] \&\& \text{NeQ}[m + n + p + 2, 0]$
93.  $\text{Int}[\frac{((e_.) + (f_.)(x_))^{(p_.)}}{((a_.) + (b_.)(x_))((c_.) + (d_.)(x_))}, x] := \text{Int}[\text{ExpandIntegrand}[(e + f*x)^p/((a + b*x)*(c + d*x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IntegerQ}[p]$
94.  $\text{Int}[\frac{((e_.) + (f_.)(x_))^{(p_.)}}{((a_.) + (b_.)(x_))((c_.) + (d_.)(x_))}, x] := \text{Simp}[(b*e - a*f)/(b*c - a*d) \text{Int}[(e + f*x)^{(p - 1)}/(a + b*x), x], x] - \text{Simp}[(d*e - c*f)/(b*c - a*d) \text{Int}[(e + f*x)^{(p - 1)}/(c + d*x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{LtQ}[0, p, 1]$
95.  $\text{Int}[\frac{((e_.) + (f_.)(x_))^{(p_.)}}{((a_.) + (b_.)(x_))((c_.) + (d_.)(x_))}, x] := \text{Simp}[f*((e + f*x)^{(p - 1)}/(b*d*(p - 1))), x] + \text{Simp}[1/(b*d) \text{Int}[(b*d*e^2 - a*c*f^2 + f*(2*b*d*e - b*c*f - a*d*f)*x]*((e + f*x)^{(p - 2)}/((a + b*x)*(c + d*x))), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[p, 1]$



96.  $\text{Int}[\frac{(e + f x)^p}{((a + b x)(c + d x))}, x] \rightarrow \text{Simp}[f \frac{(e + f x)^{p+1}}{(p+1)(b e - a f)(d e - c f)}, x] + \text{Simp}[\frac{1}{(b e - a f)(d e - c f)} \text{Int}[(b d e - b c f - a d f - b d f x) \frac{(e + f x)^{p+1}}{(a + b x)(c + d x)}], x, x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{LtQ}[p, -1]$
97.  $\text{Int}[\frac{(e + f x)^p}{((a + b x)(c + d x))}, x] \rightarrow \text{Simp}[b/(b c - a d) \text{Int}[(e + f x)^p/(a + b x), x], x] - \text{Simp}[d/(b c - a d) \text{Int}[(e + f x)^p/(c + d x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, p\}, x] \&\& \text{!IntegerQ}[p]$
98.  $\text{Int}[\frac{((c + d x)^n (e + f x)^p)}{(a + b x)}, x] \rightarrow \text{Int}[\text{ExpandIntegrand}[(e + f x)^{\text{FractionalPart}[p]}, (c + d x)^n (e + f x)^{\text{IntegerPart}[p]/(a + b x)}], x, x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{FractionQ}[p]$
99.  $\text{Int}[\frac{(a + b x)^m (c + d x)^n (e + f x)^p}{(a + b x)}, x] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b x)^m (c + d x)^n (e + f x)^p], x, x] /; \text{FreeQ}[\{a, b, c, d, e, f, p\}, x] \&\& \text{IntegersQ}[m, n] \&\& (\text{IntegerQ}[p] \mid (\text{GtQ}[m, 0] \&\& \text{GeQ}[n, -1]))$
100.  $\text{Int}[\frac{(a + b x)^2 (c + d x)^n (e + f x)^p}{(d^2 (d e - c f)(n + 1))}, x] - \text{Simp}[\frac{1}{d^2 (d e - c f)(n + 1)} \text{Int}[(c + d x)^{n+1} (e + f x)^p \text{Simp}[a^2 d^2 f (n + p + 2) + b^2 c (d e (n + 1) + c f (p + 1)) - 2 a b d (d e (n + 1) + c f (p + 1)) - b^2 d (d e - c f)(n + 1) x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n, p\}, x] \&\& (\text{LtQ}[n, -1] \mid (\text{EqQ}[n + p + 3, 0] \&\& \text{NeQ}[n, -1] \&\& (\text{SumSimplerQ}[n, 1] \mid \text{!SumSimplerQ}[p, 1])))$
101.  $\text{Int}[\frac{(a + b x)^2 (c + d x)^n (e + f x)^p}{(d f (n + p + 3))}, x] + \text{Simp}[\frac{1}{d f (n + p + 3)} \text{Int}[(c + d x)^n (e + f x)^p \text{Simp}[a^2 d f (n + p + 3) - b (b c e + a (d e (n + 1) + c f (p + 1))) + b (a d f (n + p + 4) - b (d e (n + 2) + c f (p + 2))) x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n, p\}, x] \&\& \text{NeQ}[n + p + 3, 0]$

102. `Int[1/(((a_.) + (b_.)*(x_))^(1/3)*((c_.) + (d_.)*(x_))^(2/3)*((e_.) + (f_.)*(x_))), x_] := With[{q = Rt[(d*e - c*f)/(b*e - a*f), 3]}, Simp[(-Sqrt[3])*q*(ArcTan[1/Sqrt[3] + 2*q*((a + b*x)^(1/3)/(Sqrt[3]*(c + d*x)^(1/3)))]/(d*e - c*f)), x] + (Simp[q*(Log[e + f*x]/(2*(d*e - c*f))), x] - Simp[3*q*(Log[q*(a + b*x)^(1/3) - (c + d*x)^(1/3)]/(2*(d*e - c*f))), x]] /; FreeQ[{a, b, c, d, e, f}, x]`
103. `Int[1/(Sqrt[(a_.) + (b_.)*(x_)]*Sqrt[(c_.) + (d_.)*(x_)]*((e_.) + (f_.)*(x_))), x_] := Simp[b*f Subst[Int[1/(d*(b*e - a*f)^2 + b*f^2*x^2), x], x, Sqrt[a + b*x]*Sqrt[c + d*x]], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[2*b*d*e - f*(b*c + a*d), 0]`
104. `Int[(((a_.) + (b_.)*(x_))^(m_)*((c_.) + (d_.)*(x_))^(n_))/((e_.) + (f_.)*(x_)), x_] := With[{q = Denominator[m]}, Simp[q Subst[Int[x^(q*(m + 1) - 1)/(b*e - a*f - (d*e - c*f)*x^q), x], x, (a + b*x)^(1/q)/(c + d*x)^(1/q)], x]] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[m + n + 1, 0] && RationalQ[n] && LtQ[-1, m, 0] && SimplerQ[a + b*x, c + d*x]`
105. `Int[((a_.) + (b_.)*(x_))^(m_)*((c_.) + (d_.)*(x_))^(n_)*((e_.) + (f_.)*(x_))^(p_), x_] := Simp[(a + b*x)^(m + 1)*(c + d*x)^n*((e + f*x)^(p + 1)/((m + 1)*(b*e - a*f))), x] - Simp[n*((d*e - c*f)/((m + 1)*(b*e - a*f)) Int[(a + b*x)^(m + 1)*(c + d*x)^(n - 1)*(e + f*x)^p, x], x] /; FreeQ[{a, b, c, d, e, f, m, p}, x] && EqQ[m + n + p + 2, 0] && GtQ[n, 0] && (SumSimplerQ[m, 1] || !SumSimplerQ[p, 1]) && NeQ[m, -1]`
106. `Int[((a_.) + (b_.)*(x_))^(m_)*((c_.) + (d_.)*(x_))^(n_)*((e_.) + (f_.)*(x_))^(p_), x_] := Simp[b*(a + b*x)^(m + 1)*(c + d*x)^(n + 1)*((e + f*x)^(p + 1)/((m + 1)*(b*c - a*d)*(b*e - a*f))), x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && EqQ[Simplify[m + n + p + 3], 0] && EqQ[a*d*f*(m + 1) + b*c*f*(n + 1) + b*d*e*(p + 1), 0] && NeQ[m, -1]`
107. `Int[((a_.) + (b_.)*(x_))^(m_)*((c_.) + (d_.)*(x_))^(n_)*((e_.) + (f_.)*(x_))^(p_), x_] := Simp[b*(a + b*x)^(m + 1)*(c + d*x)^(n + 1)*((e + f*x)^(p + 1)/((m + 1)*(b*c - a*d)*(b*e - a*f))), x] + Simp[(a*d*f*(m + 1) + b*c*f*(n + 1) + b*d*e*(p + 1))/((m + 1)*(b*c - a*d)*(b*e - a*f)) Int[(a + b*x)^(m + 1)*(c + d*x)^n*(e + f*x)^p, x], x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && EqQ[Simplify[m + n + p + 3], 0] && (LtQ[`

- $m, -1] \parallel \text{SumSimplerQ}[m, 1])$
108.  $\text{Int}[(a_.) + (b_.)(x_)^{(m_)} * ((c_.) + (d_.)(x_)^{(n_)} * ((e_.) + (f_.) * (x_)^{(p_)}), x_] \rightarrow \text{Simp}[(a + b*x)^{(m+1)} * (c + d*x)^n * (e + f*x)^p / (b * (m+1))], x] - \text{Simp}[1/(b*(m+1)) \text{Int}[(a + b*x)^{(m+1)} * (c + d*x)^{(n-1)} * (e + f*x)^{(p-1)} * \text{Simp}[d*e*n + c*f*p + d*f*(n+p)*x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& (\text{IntegersQ}[2*m, 2*n, 2*p] \parallel \text{IntegersQ}[m, n+p] \parallel \text{IntegersQ}[p, m+n])$
109.  $\text{Int}[(a_.) + (b_.)(x_)^{(m_)} * ((c_.) + (d_.)(x_)^{(n_)} * ((e_.) + (f_.) * (x_)^{(p_)}), x_] \rightarrow \text{Simp}[(b*c - a*d) * (a + b*x)^{(m+1)} * (c + d*x)^{(n-1)} * (e + f*x)^{(p+1)} / (b*(b*e - a*f)*(m+1))], x] + \text{Simp}[1/(b*(b*e - a*f)*(m+1)) \text{Int}[(a + b*x)^{(m+1)} * (c + d*x)^{(n-2)} * (e + f*x)^p * \text{Simp}[a*d*(d*e*(n-1) + c*f*(p+1)) + b*c*(d*e*(m-n+2) - c*f*(m+p+2)) + d*(a*d*f*(n+p) + b*(d*e*(m+1) - c*f*(m+n+p+1))]*x, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 1] \&\& (\text{IntegersQ}[2*m, 2*n, 2*p] \parallel \text{IntegersQ}[m, n+p] \parallel \text{IntegersQ}[p, m+n])$
110.  $\text{Int}[(a_.) + (b_.)(x_)^{(m_)} * ((c_.) + (d_.)(x_)^{(n_)} * ((e_.) + (f_.) * (x_)^{(p_)}), x_] \rightarrow \text{Simp}[(a + b*x)^{(m+1)} * (c + d*x)^n * (e + f*x)^{(p+1)} / ((m+1)*(b*e - a*f))], x] - \text{Simp}[1/((m+1)*(b*e - a*f)) \text{Int}[(a + b*x)^{(m+1)} * (c + d*x)^{(n-1)} * (e + f*x)^p * \text{Simp}[d*e*n + c*f*(m+p+2) + d*f*(m+n+p+2)*x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0] \&\& (\text{IntegersQ}[2*m, 2*n, 2*p] \parallel \text{IntegersQ}[m, n+p] \parallel \text{IntegersQ}[p, m+n])$
111.  $\text{Int}[(a_.) + (b_.)(x_)^{(m_)} * ((c_.) + (d_.)(x_)^{(n_)} * ((e_.) + (f_.) * (x_)^{(p_)}), x_] \rightarrow \text{Simp}[b*(a + b*x)^{(m-1)} * (c + d*x)^{(n+1)} * (e + f*x)^{(p+1)} / (d*f*(m+n+p+1))], x] + \text{Simp}[1/(d*f*(m+n+p+1)) \text{Int}[(a + b*x)^{(m-2)} * (c + d*x)^n * (e + f*x)^p * \text{Simp}[a^2*d*f*(m+n+p+1) - b*(b*c*e*(m-1) + a*(d*e*(n+1) + c*f*(p+1))) + b*(a*d*f*(2*m+n+p) - b*(d*e*(m+n) + c*f*(m+p))]*x, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p\}, x] \&\& \text{GtQ}[m, 1] \&\& \text{NeQ}[m+n+p+1, 0] \&\& \text{IntegerQ}[m]$

112.  $\text{Int}[(a_. + (b_.)(x_.))^{(m_.)}((c_.) + (d_.)(x_.))^{(n_.)}((e_.) + (f_.)(x_.))^{(p_.)}, x_] \rightarrow \text{Simp}[(a + b*x)^m*(c + d*x)^n*(e + f*x)^{p+1}/(f*(m + n + p + 1))], x] - \text{Simp}[1/(f*(m + n + p + 1)) \text{Int}[(a + b*x)^{m-1}*(c + d*x)^{n-1}*(e + f*x)^p*\text{Simp}[c*m*(b*e - a*f) + a*n*(d*e - c*f) + (d*m*(b*e - a*f) + b*n*(d*e - c*f))*x, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x] \&\& \text{GtQ}[m, 0] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[m + n + p + 1, 0] \&\& (\text{IntegersQ}[2*m, 2*n, 2*p] || (\text{IntegersQ}[m, n + p] || \text{IntegersQ}[p, m + n]))$
113.  $\text{Int}[(a_. + (b_.)(x_.))^{(m_.)}((c_.) + (d_.)(x_.))^{(n_.)}((e_.) + (f_.)(x_.))^{(p_.)}, x_] \rightarrow \text{Simp}[b*(a + b*x)^{m-1}*(c + d*x)^{n+1}*(e + f*x)^{p+1}/(d*f*(m + n + p + 1))], x] + \text{Simp}[1/(d*f*(m + n + p + 1)) \text{Int}[(a + b*x)^{m-2}*(c + d*x)^n*(e + f*x)^p*\text{Simp}[a^2*d*f*(m + n + p + 1) - b*(b*c*e*(m - 1) + a*(d*e*(n + 1) + c*f*(p + 1))) + b*(a*d*f*(2*m + n + p) - b*(d*e*(m + n) + c*f*(m + p)))*x, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p\}, x] \&\& \text{GtQ}[m, 1] \&\& \text{NeQ}[m + n + p + 1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$
114.  $\text{Int}[(a_. + (b_.)(x_.))^{(m_.)}((c_.) + (d_.)(x_.))^{(n_.)}((e_.) + (f_.)(x_.))^{(p_.)}, x_] \rightarrow \text{Simp}[b*(a + b*x)^{m+1}*(c + d*x)^{n+1}*(e + f*x)^{p+1}/((m + 1)*(b*c - a*d)*(b*e - a*f))], x] + \text{Simp}[1/((m + 1)*(b*c - a*d)*(b*e - a*f)) \text{Int}[(a + b*x)^{m+1}*(c + d*x)^n*(e + f*x)^p*\text{Simp}[a*d*f*(m + 1) - b*(d*e*(m + n + 2) + c*f*(m + p + 2)) - b*d*f*(m + n + p + 3)*x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p\}, x] \&\& \text{ILtQ}[m, -1] \&\& (\text{IntegerQ}[n] || \text{IntegersQ}[2*n, 2*p] || \text{ILtQ}[m + n + p + 3, 0])$
115.  $\text{Int}[(a_. + (b_.)(x_.))^{(m_.)}((c_.) + (d_.)(x_.))^{(n_.)}((e_.) + (f_.)(x_.))^{(p_.)}, x_] \rightarrow \text{Simp}[b*(a + b*x)^{m+1}*(c + d*x)^{n+1}*(e + f*x)^{p+1}/((m + 1)*(b*c - a*d)*(b*e - a*f))], x] + \text{Simp}[1/((m + 1)*(b*c - a*d)*(b*e - a*f)) \text{Int}[(a + b*x)^{m+1}*(c + d*x)^n*(e + f*x)^p*\text{Simp}[a*d*f*(m + 1) - b*(d*e*(m + n + 2) + c*f*(m + p + 2)) - b*d*f*(m + n + p + 3)*x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$
116.  $\text{Int}[1/(((a_.) + (b_.)(x_.))*\text{Sqrt}[(c_.) + (d_.)(x_.)]*((e_.) + (f_.)(x_.))^{(1/4)}), x_] \rightarrow \text{Simp}[-4 \text{Subst}[\text{Int}[x^2/((b*e - a*f - b*x^4))*\text{Sqrt}[c$

- $$-d*(e/f) + d*(x^4/f)]), x], x, (e + f*x)^{(1/4)}, x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{GtQ}[-f/(d*e - c*f), 0]$$
117.  $\text{Int}[1/(((a_.) + (b_.)*(x_.))*\text{Sqrt}[(c_.) + (d_.)*(x_.)]*((e_.) + (f_.)*(x_.))^{(1/4)}), x_] \text{:} \text{Simp}[\text{Sqrt}[(-f)*((c + d*x)/(d*e - c*f))]/\text{Sqrt}[c + d*x] \ \text{Int}[1/((a + b*x)*\text{Sqrt}[(-c)*(f/(d*e - c*f)) - d*f*(x/(d*e - c*f))]*(e + f*x)^{(1/4))}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{!GtQ}[-f/(d*e - c*f), 0]$
118.  $\text{Int}[1/(((a_.) + (b_.)*(x_.))*\text{Sqrt}[(c_.) + (d_.)*(x_.)]*((e_.) + (f_.)*(x_.))^{(3/4)}), x_] \text{:} \text{Simp}[-4 \ \text{Subst}[\text{Int}[1/((b*e - a*f - b*x^4)*\text{Sqrt}[c - d*(e/f) + d*(x^4/f)]), x], x, (e + f*x)^{(1/4)}, x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{GtQ}[-f/(d*e - c*f), 0]$
119.  $\text{Int}[1/(((a_.) + (b_.)*(x_.))*\text{Sqrt}[(c_.) + (d_.)*(x_.)]*((e_.) + (f_.)*(x_.))^{(3/4)}), x_] \text{:} \text{Simp}[\text{Sqrt}[(-f)*((c + d*x)/(d*e - c*f))]/\text{Sqrt}[c + d*x] \ \text{Int}[1/((a + b*x)*\text{Sqrt}[(-c)*(f/(d*e - c*f)) - d*f*(x/(d*e - c*f))]*(e + f*x)^{(3/4))}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{!GtQ}[-f/(d*e - c*f), 0]$
120.  $\text{Int}[\text{Sqrt}[(e_) + (f_.)*(x_.)]/(\text{Sqrt}[(b_.)*(x_.)]*\text{Sqrt}[(c_) + (d_.)*(x_.)]), x_] \text{:} \text{Simp}[2*(\text{Sqrt}[e]/b)*\text{Rt}[-b/d, 2]*\text{EllipticE}[\text{ArcSin}[\text{Sqrt}[b*x]/(\text{Sqrt}[c]*\text{Rt}[-b/d, 2])], c*(f/(d*e))], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \ \&\& \ \text{GtQ}[c, 0] \ \&\& \ \text{GtQ}[e, 0] \ \&\& \ \text{!LtQ}[-b/d, 0]$
121.  $\text{Int}[\text{Sqrt}[(e_) + (f_.)*(x_.)]/(\text{Sqrt}[(b_.)*(x_.)]*\text{Sqrt}[(c_) + (d_.)*(x_.)]), x_] \text{:} \text{Simp}[\text{Sqrt}[(-b)*x]/\text{Sqrt}[b*x] \ \text{Int}[\text{Sqrt}[e + f*x]/(\text{Sqrt}[(-b)*x]*\text{Sqrt}[c + d*x]), x], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \ \&\& \ \text{GtQ}[c, 0] \ \&\& \ \text{GtQ}[e, 0] \ \&\& \ \text{LtQ}[-b/d, 0]$
122.  $\text{Int}[\text{Sqrt}[(e_) + (f_.)*(x_.)]/(\text{Sqrt}[(b_.)*(x_.)]*\text{Sqrt}[(c_) + (d_.)*(x_.)]), x_] \text{:} \text{Simp}[\text{Sqrt}[e + f*x]*(\text{Sqrt}[1 + d*(x/c)]/(\text{Sqrt}[c + d*x]*\text{Sqrt}[1 + f*(x/e)])) \ \text{Int}[\text{Sqrt}[1 + f*(x/e)]/(\text{Sqrt}[b*x]*\text{Sqrt}[1 + d*(x/c)]), x], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \ \&\& \ \text{!(GtQ}[c, 0] \ \&\& \ \text{GtQ}[e, 0])]$

123.  $\text{Int}[\text{Sqrt}[(e_{.}) + (f_{.})*(x_{.})]/(\text{Sqrt}[(a_{.}) + (b_{.})*(x_{.})]*\text{Sqrt}[(c_{.}) + (d_{.})*(x_{.})]), x_{.}] \rightarrow \text{Simp}[(2/b)*\text{Rt}[-(b*e - a*f)/d, 2]*\text{EllipticE}[\text{ArcSin}[\text{Sqrt}[a + b*x]/\text{Rt}[-(b*c - a*d)/d, 2]], f*((b*c - a*d)/(d*(b*e - a*f)))]], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[b/(b*c - a*d), 0] \&\& \text{GtQ}[b/(b*e - a*f), 0] \&\& !\text{LtQ}[-(b*c - a*d)/d, 0] \&\& !(\text{SimplerQ}[c + d*x, a + b*x] \&\& \text{GtQ}[-d/(b*c - a*d), 0] \&\& \text{GtQ}[d/(d*e - c*f), 0] \&\& !\text{LtQ}[(b*c - a*d)/b, 0])$
124.  $\text{Int}[\text{Sqrt}[(e_{.}) + (f_{.})*(x_{.})]/(\text{Sqrt}[(a_{.}) + (b_{.})*(x_{.})]*\text{Sqrt}[(c_{.}) + (d_{.})*(x_{.})]), x_{.}] \rightarrow \text{Simp}[\text{Sqrt}[e + f*x]*(\text{Sqrt}[b*((c + d*x)/(b*c - a*d))]/(\text{Sqrt}[c + d*x]*\text{Sqrt}[b*((e + f*x)/(b*e - a*f))])) \text{Int}[\text{Sqrt}[b*(e/(b*e - a*f)) + b*f*(x/(b*e - a*f))]/(\text{Sqrt}[a + b*x]*\text{Sqrt}[b*(c/(b*c - a*d)) + b*d*(x/(b*c - a*d))]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& !(\text{GtQ}[b/(b*c - a*d), 0] \&\& \text{GtQ}[b/(b*e - a*f), 0]) \&\& !\text{LtQ}[-(b*c - a*d)/d, 0]$
125.  $\text{Int}[1/(\text{Sqrt}[(b_{.})*(x_{.})]*\text{Sqrt}[(c_{.}) + (d_{.})*(x_{.})]*\text{Sqrt}[(e_{.}) + (f_{.})*(x_{.})]), x_{.}] \rightarrow \text{Simp}[(2/(b*\text{Sqrt}[e]))*\text{Rt}[-b/d, 2]*\text{EllipticF}[\text{ArcSin}[\text{Sqrt}[b*x]/(\text{Sqrt}[c]*\text{Rt}[-b/d, 2])], c*(f/(d*e))], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \&\& \text{GtQ}[c, 0] \&\& \text{GtQ}[e, 0] \&\& (\text{GtQ}[-b/d, 0] || \text{LtQ}[-b/f, 0])$
126.  $\text{Int}[1/(\text{Sqrt}[(b_{.})*(x_{.})]*\text{Sqrt}[(c_{.}) + (d_{.})*(x_{.})]*\text{Sqrt}[(e_{.}) + (f_{.})*(x_{.})]), x_{.}] \rightarrow \text{Simp}[(2/(b*\text{Sqrt}[e]))*\text{Rt}[-b/d, 2]*\text{EllipticF}[\text{ArcSin}[\text{Sqrt}[b*x]/(\text{Sqrt}[c]*\text{Rt}[-b/d, 2])], c*(f/(d*e))], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \&\& \text{GtQ}[c, 0] \&\& \text{GtQ}[e, 0] \&\& (\text{PosQ}[-b/d] || \text{NegQ}[-b/f])$
127.  $\text{Int}[1/(\text{Sqrt}[(b_{.})*(x_{.})]*\text{Sqrt}[(c_{.}) + (d_{.})*(x_{.})]*\text{Sqrt}[(e_{.}) + (f_{.})*(x_{.})]), x_{.}] \rightarrow \text{Simp}[\text{Sqrt}[1 + d*(x/c)]*(\text{Sqrt}[1 + f*(x/e)]/(\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x])) \text{Int}[1/(\text{Sqrt}[b*x]*\text{Sqrt}[1 + d*(x/c)]*\text{Sqrt}[1 + f*(x/e)]), x], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \&\& !(\text{GtQ}[c, 0] \&\& \text{GtQ}[e, 0])$
128.  $\text{Int}[1/(\text{Sqrt}[(a_{.}) + (b_{.})*(x_{.})]*\text{Sqrt}[(c_{.}) + (d_{.})*(x_{.})]*\text{Sqrt}[(e_{.}) + (f_{.})*(x_{.})]), x_{.}] \rightarrow \text{Simp}[-2*(\text{Sqrt}[d/f]/(d*\text{Rt}[-(b*e - a*f)/f, 2]))*\text{EllipticF}[\text{ArcSin}[\text{Rt}[-(b*e - a*f)/f, 2]/\text{Sqrt}[a + b*x]], f*((b*c - a*d)/(d*(b*e - a*f)))]], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[d/b, 0] \&\& \text{GtQ}[f/b, 0] \&\& \text{LeQ}[c, a*(d/b)] \&\& \text{LeQ}[e, a*(f/b)]$

129. `Int[1/(Sqrt[(a_) + (b_.)*(x_)]*Sqrt[(c_) + (d_.)*(x_)]*Sqrt[(e_) + (f_.)*(x_)]), x_] := Simp[2*(Rt[-b/d, 2]/(b*Sqrt[(b*e - a*f)/b]))*EllipticF[ArcSin[Sqrt[a + b*x]/(Rt[-b/d, 2]*Sqrt[(b*c - a*d)/b])], f*((b*c - a*d)/(d*(b*e - a*f)))]], x] /; FreeQ[{a, b, c, d, e, f}, x] && GtQ[(b*c - a*d)/b, 0] && GtQ[(b*e - a*f)/b, 0] && PosQ[-b/d] && !(SimplerQ[c + d*x, a + b*x] && GtQ[(d*e - c*f)/d, 0] && GtQ[-d/b, 0]) && !(SimplerQ[c + d*x, a + b*x] && GtQ[((-b)*e + a*f)/f, 0] && GtQ[-f/b, 0]) && !(SimplerQ[e + f*x, a + b*x] && GtQ[((-d)*e + c*f)/f, 0] && GtQ[((-b)*e + a*f)/f, 0] && (PosQ[-f/d] || PosQ[-f/b]))`
130. `Int[1/(Sqrt[(a_) + (b_.)*(x_)]*Sqrt[(c_) + (d_.)*(x_)]*Sqrt[(e_) + (f_.)*(x_)]), x_] := Simp[2*(Rt[-b/d, 2]/(b*Sqrt[(b*e - a*f)/b]))*EllipticF[ArcSin[Sqrt[a + b*x]/(Rt[-b/d, 2]*Sqrt[(b*c - a*d)/b])], f*((b*c - a*d)/(d*(b*e - a*f)))]], x] /; FreeQ[{a, b, c, d, e, f}, x] && GtQ[b/(b*c - a*d), 0] && GtQ[b/(b*e - a*f), 0] && SimplerQ[a + b*x, c + d*x] && SimplerQ[a + b*x, e + f*x] && (PosQ[-(b*c - a*d)/d] || NegQ[-(b*e - a*f)/f])`
131. `Int[1/(Sqrt[(a_) + (b_.)*(x_)]*Sqrt[(c_) + (d_.)*(x_)]*Sqrt[(e_) + (f_.)*(x_)]), x_] := Simp[Sqrt[b*((c + d*x)/(b*c - a*d))]/Sqrt[c + d*x] Int[1/(Sqrt[a + b*x]*Sqrt[b*(c/(b*c - a*d)) + b*d*(x/(b*c - a*d))]*Sqrt[e + f*x]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && !GtQ[(b*c - a*d)/b, 0] && SimplerQ[a + b*x, c + d*x] && SimplerQ[a + b*x, e + f*x]`
132. `Int[1/(Sqrt[(a_) + (b_.)*(x_)]*Sqrt[(c_) + (d_.)*(x_)]*Sqrt[(e_) + (f_.)*(x_)]), x_] := Simp[Sqrt[b*((e + f*x)/(b*e - a*f))]/Sqrt[e + f*x] Int[1/(Sqrt[a + b*x]*Sqrt[c + d*x]*Sqrt[b*(e/(b*e - a*f)) + b*f*(x/(b*e - a*f))]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && !GtQ[(b*e - a*f)/b, 0]`
133. `Int[1/(((a_.) + (b_.)*(x_))*((c_.) + (d_.)*(x_))^(1/3)*((e_.) + (f_.)*(x_))^(1/3)), x_] := With[{q = Rt[b*((b*e - a*f)/(b*c - a*d)^2], 3]}, Simp[-Log[a + b*x]/(2*q*(b*c - a*d)), x] + (-Simp[Sqrt[3]*(ArcTan[1/Sqrt[3] + 2*q*((c + d*x)^(2/3)/(Sqrt[3]*(e + f*x)^(1/3))])]/(2*q*(b*c - a*d))), x] + Simp[3*(Log[q*(c + d*x)^(2/3) - (e + f*x)^(1/3)]/(4*q*(b*c - a*d))), x]] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[2*b*d*e - b*c*f - a*d*f, 0]`

134.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)} / (((c_.) + (d_.)(x_))^{(1/3)} * ((e_.) + (f_.)(x_))^{(1/3)}), x_] \rightarrow \text{Simp}[b*(a + b*x)^{(m + 1)} * (c + d*x)^{(2/3)} * ((e + f*x)^{(2/3)} / ((m + 1)*(b*c - a*d)*(b*e - a*f))), x] + \text{Simp}[f / (6*(m + 1) * (b*c - a*d)*(b*e - a*f)) \text{Int}[(a + b*x)^{(m + 1)} * ((a*d*(3*m + 1) - 3*b*c*(3*m + 5) - 2*b*d*(3*m + 7)*x) / ((c + d*x)^{(1/3)} * (e + f*x)^{(1/3)}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[2*b*d*e - b*c*f - a*d*f, 0] \&\& \text{ILtQ}[m, -1]$
135.  $\text{Int}[(f_.)(x_))^{(p_)} * ((a_.) + (b_.)(x_))^{(m_)} * ((c_.) + (d_.)(x_))^{(n_)}, x_] \rightarrow \text{Int}[(a*c + b*d*x^2)^m * (f*x)^p, x] /; \text{FreeQ}\{a, b, c, d, f, m, n, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[n, m] \&\& \text{GtQ}[a, 0] \&\& \text{GtQ}[c, 0]$
136.  $\text{Int}[(f_.)(x_))^{(p_)} * ((a_.) + (b_.)(x_))^{(m_)} * ((c_.) + (d_.)(x_))^{(n_)}, x_] \rightarrow \text{Simp}[(a + b*x)^{\text{FracPart}[m]} * ((c + d*x)^{\text{FracPart}[m]} / (a*c + b*d*x^2)^{\text{FracPart}[m]}) \text{Int}[(a*c + b*d*x^2)^m * (f*x)^p, x], x] /; \text{FreeQ}\{a, b, c, d, f, m, n, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[n, m]$
137.  $\text{Int}[(a_.) + (b_.)(x_))^{(m_)} * ((c_.) + (d_.)(x_))^{(n_)} * ((e_.) + (f_.)(x_))^{(p_)}, x_] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*x)^m * (c + d*x)^n * (e + f*x)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p\}, x] \&\& (\text{IGtQ}[m, 0] || (\text{ILtQ}[m, 0] \&\& \text{ILtQ}[n, 0]))$
138.  $\text{Int}[(a_.) + (b_.)(x_))^{(m_)} * ((c_.) + (d_.)(x_))^{(n_)} / ((e_.) + (f_.)(x_))^2, x_] \rightarrow \text{Simp}[b*(d/f^2) \text{Int}[(a + b*x)^{(m - 1)} * (c + d*x)^{(n - 1)}, x], x] + \text{Simp}[(b*e - a*f) * ((d*e - c*f) / f^2) \text{Int}[(a + b*x)^{(m - 1)} * ((c + d*x)^{(n - 1)} / (e + f*x)^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{IGtQ}[m + n, 0] \&\& \text{EqQ}[2*b*d*e - f*(b*c + a*d), 0]$
139.  $\text{Int}[(a_.) + (b_.)(x_))^{(m_)} * ((c_.) + (d_.)(x_))^{(n_)} * ((e_.) + (f_.)(x_))^{(p_)}, x_] \rightarrow \text{Simp}[f^{(p - 1)} / d^p \text{Int}[(a + b*x)^m * ((d*e*p - c*f * (p - 1) + d*f*x) / (c + d*x)^{(m + 1)}), x], x] + \text{Simp}[f^{(p - 1)} \text{Int}[(a + b*x)^m * ((e + f*x)^p / (c + d*x)^{(m + 1)}) * \text{ExpandToSum}[f^{(-p + 1)} * (c + d*x)^{(-p + 1)} - (d*e*p - c*f*(p - 1) + d*f*x) / (d^p * (e + f*x)^p), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{EqQ}[m + n + p, 0] \&\& \text{ILtQ}[p, 0] \&\& (\text{LtQ}[m, 0] || \text{SumSimplerQ}[m, 1] || !(\text{LtQ}[n, 0] || \text{SumSimp$



lerQ[n, 1]))

140.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}((e_.) + (f_.)(x_))^{(p_)}, x_] \rightarrow \text{Simp}[b*d^{(m+n)}*f^p \text{ Int}[(a + b*x)^{(m-1)}/(c + d*x)^m, x], x] + \text{Int}[(a + b*x)^{(m-1)}*((e + f*x)^p/(c + d*x)^m)*\text{ExpandToSum}[(a + b*x)*(c + d*x)^{-(p-1)} - (b*d^{-(p-1)}*f^p)/(e + f*x)^p, x], x] /;$  FreeQ[{a, b, c, d, e, f, m, n}, x] && EqQ[m + n + p + 1, 0] && ILtQ[p, 0] && (GtQ[m, 0] || SumSimplerQ[m, -1] || !(GtQ[n, 0] || SumSimplerQ[n, -1]))
141.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}((e_.) + (f_.)(x_))^{(p_)}, x_] \rightarrow \text{Simp}[(b*c - a*d)^n*((a + b*x)^{(m+1)}/((m+1)*(b*e - a*f)^{(n+1)}*(e + f*x)^{(m+1)}))*\text{Hypergeometric2F1}[m + 1, -n, m + 2, (-(d*e - c*f))*((a + b*x)/((b*c - a*d)*(e + f*x)))]], x] /;$  FreeQ[{a, b, c, d, e, f, m, p}, x] && EqQ[m + n + p + 2, 0] && ILtQ[n, 0] && (SumSimplerQ[m, 1] || !SumSimplerQ[p, 1]) && !ILtQ[m, 0]
142.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}((e_.) + (f_.)(x_))^{(p_)}, x_] \rightarrow \text{Simp}[(a + b*x)^{(m+1)}*(c + d*x)^n*((e + f*x)^{(p+1)}/((b*e - a*f)*(m+1)))*\text{Hypergeometric2F1}[m + 1, -n, m + 2, (-(d*e - c*f))*((a + b*x)/((b*c - a*d)*(e + f*x)))]/((b*e - a*f)*((c + d*x)/((b*c - a*d)*(e + f*x))))^n, x] /;$  FreeQ[{a, b, c, d, e, f, m, n, p}, x] && EqQ[m + n + p + 2, 0] && !IntegerQ[n]
143.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}]/((e_.) + (f_.)(x_)), x_] \rightarrow \text{Simp}[(c*f - d*e)^{(m+n+1)}/f^{(m+n+1)} \text{ Int}[(a + b*x)^m/((c + d*x)^{(m+1)}*(e + f*x)), x], x] + \text{Simp}[1/f^{(m+n+1)} \text{ Int}[(a + b*x)^m/((c + d*x)^{(m+1)})*\text{ExpandToSum}[(f^{(m+n+1)}*(c + d*x)^{(m+n+1)} - (c*f - d*e)^{(m+n+1)})/(e + f*x), x], x], x] /;$  FreeQ[{a, b, c, d, e, f, m, n}, x] && IGtQ[m + n + 1, 0] && (LtQ[m, 0] || SumSimplerQ[m, 1] || !(LtQ[n, 0] || SumSimplerQ[n, 1]))
144.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}((e_.) + (f_.)(x_))^{(p_)}, x_] \rightarrow \text{With}\{mnp = \text{Simplify}[m + n + p]\}, \text{Simp}[b*(a + b*x)^{(m+1)}*(c + d*x)^{(n+1)}*((e + f*x)^{(p+1)}/((m+1)*(b*c - a*d)*(b*e - a*f))), x] + \text{Simp}[1/((m+1)*(b*c - a*d)*(b*e - a*f)) \text{ Int}[(a + b*x)^{(m+1)}*(c + d*x)^n*(e + f*x)^p*\text{Simp}[a*d*f*(m+1) - b*(d*e*(m+n$

- $+ 2) + c*f*(m + p + 2)) - b*d*f*(mnp + 3)*x, x], x] /;$  ILtQ[mnp + 2, 0] && (SumSimplerQ[m, 1] || (!SumSimplerQ[n, 1] && !SumSimplerQ[p, 1]))] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && NeQ[m, -1]
145. Int[((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_)\*((e\_.) + (f\_.)\*(x\_))^(p\_), x\_] := Simp[1/b Subst[Int[x^m\*(c\*e - (d\*e + c\*f)^2/(4\*d\*f) + d\*f\*(x^2/b^2))^n, x], x, a + b\*x], x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && EqQ[p, n] && EqQ[b\*d\*e + b\*c\*f - 2\*a\*d\*f, 0] && EqQ[d\*e + c\*f, 0] && GtQ[c, 0] && GtQ[e, 0]
146. Int[((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_)\*((e\_.) + (f\_.)\*(x\_))^(p\_), x\_] := Simp[(c + d\*x)^n\*((e + f\*x)^p/(b\*(c\*e + (d\*e + c\*f)\*x + d\*f\*x^2)^n)) Subst[Int[x^m\*(c\*e - (d\*e + c\*f)^2/(4\*d\*f) + d\*f\*(x^2/b^2))^n, x], x, a + b\*x], x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && EqQ[p, n] && EqQ[b\*d\*e + b\*c\*f - 2\*a\*d\*f, 0]
147. Int[((f\_.)\*(x\_))^(p\_)\*((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_), x\_] := Int[ExpandIntegrand[(a + b\*x)^n\*(c + d\*x)^n\*(f\*x)^p, (a + b\*x)^(m - n), x], x] /; FreeQ[{a, b, c, d, f, m, n, p}, x] && EqQ[b\*c + a\*d, 0] && IGtQ[m - n, 0] && NeQ[m + n + p + 2, 0]
148. Int[((b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_.)\*((e\_.) + (f\_.)\*(x\_))^(p\_.), x\_] := With[{k = Denominator[m]}, Simp[k/b Subst[Int[x^(k\*(m + 1) - 1)\*(c + d\*(x^k/b))^n\*(e + f\*(x^k/b))^p, x], x, (b\*x)^(1/k)], x] /; FreeQ[{b, c, d, e, f, n, p}, x] && FractionQ[m] && IntegerQ[p]
149. Int[((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_.)\*((e\_.) + (f\_.)\*(x\_))^(p\_.), x\_] := With[{k = Denominator[m]}, Simp[k/b Subst[Int[x^(k\*(m + 1) - 1)\*(c - a\*(d/b) + d\*(x^k/b))^n\*(e - a\*(f/b) + f\*(x^k/b))^p, x], x, (a + b\*x)^(1/k)], x] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && FractionQ[m] && IntegerQ[2\*n] && IntegerQ[p]
150. Int[((b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_)\*((e\_.) + (f\_.)\*(x\_))^(p\_), x\_] := Simp[c^n\*e^p\*((b\*x)^(m + 1)/(b\*(m + 1)))\*AppellF1[m + 1, -n, -p, m + 2, (-d)\*(x/c), (-f)\*(x/e)], x] /; FreeQ[{b, c, d, e, f, m, n, p}, x] && !IntegerQ[m] && !IntegerQ[n] && GtQ[c, 0] && (IntegerQ[p]

|| GtQ[e, 0])

151.  $\text{Int}[(b \cdot x)^m \cdot (c + d \cdot x)^n \cdot (e + f \cdot x)^p, x] \rightarrow \text{Simp}[(c + d \cdot x)^{n+1} / (d \cdot (n+1) \cdot (-d/(b \cdot c))^{m+1} \cdot (d/(d \cdot e - c \cdot f))^p) \cdot \text{AppellF1}[n+1, -m, -p, n+2, 1 + d \cdot (x/c), (-f) \cdot (c + d \cdot x) / (d \cdot e - c \cdot f)], x] /;$  FreeQ[{b, c, d, e, f, m, n, p}, x] && !IntegerQ[m] && !IntegerQ[n] && GtQ[-d/(b\*c), 0] && (IntegerQ[p] || GtQ[d/(d\*e - c\*f), 0])
152.  $\text{Int}[(b \cdot x)^m \cdot (c + d \cdot x)^n \cdot (e + f \cdot x)^p, x] \rightarrow \text{Simp}[c^{\text{IntPart}[n]} \cdot (c + d \cdot x)^{\text{FracPart}[n]} / (1 + d \cdot (x/c))^{\text{FracPart}[n]} \cdot \text{Int}[(b \cdot x)^m \cdot (1 + d \cdot (x/c))^n \cdot (e + f \cdot x)^p, x], x] /;$  FreeQ[{b, c, d, e, f, m, n, p}, x] && !IntegerQ[m] && !IntegerQ[n] && !GtQ[c, 0]
153.  $\text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^n \cdot (e + f \cdot x)^p, x] \rightarrow \text{Simp}[(b \cdot e - a \cdot f)^p \cdot (a + b \cdot x)^{m+1} / (b^{p+1} \cdot (m+1) \cdot \text{Simplify}[b/(b \cdot c - a \cdot d)]^n) \cdot \text{AppellF1}[m+1, -n, -p, m+2, (-d) \cdot (a + b \cdot x) / (b \cdot c - a \cdot d), (-f) \cdot (a + b \cdot x) / (b \cdot e - a \cdot f)], x] /;$  FreeQ[{a, b, c, d, e, f, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && IntegerQ[p] && GtQ[Simplify[b/(b\*c - a\*d)], 0] && !(GtQ[Simplify[d/(d\*a - c\*b)], 0] && SimplifierQ[c + d\*x, a + b\*x])
154.  $\text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^n \cdot (e + f \cdot x)^p, x] \rightarrow \text{Simp}[(c + d \cdot x)^{\text{FracPart}[n]} / (\text{Simplify}[b/(b \cdot c - a \cdot d)]^{\text{IntPart}[n]} \cdot (b \cdot (c + d \cdot x) / (b \cdot c - a \cdot d))^{\text{FracPart}[n]}) \cdot \text{Int}[(a + b \cdot x)^m \cdot \text{Simp}[b \cdot (c/(b \cdot c - a \cdot d)) + b \cdot d \cdot (x/(b \cdot c - a \cdot d)), x]^n \cdot (e + f \cdot x)^p, x], x] /;$  FreeQ[{a, b, c, d, e, f, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && IntegerQ[p] && !GtQ[Simplify[b/(b\*c - a\*d)], 0] && !SimplifierQ[c + d\*x, a + b\*x]
155.  $\text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^n \cdot (e + f \cdot x)^p, x] \rightarrow \text{Simp}[(a + b \cdot x)^{m+1} / (b \cdot (m+1) \cdot \text{Simplify}[b/(b \cdot c - a \cdot d)]^n \cdot \text{Simplify}[b/(b \cdot e - a \cdot f)]^p) \cdot \text{AppellF1}[m+1, -n, -p, m+2, (-d) \cdot (a + b \cdot x) / (b \cdot c - a \cdot d), (-f) \cdot (a + b \cdot x) / (b \cdot e - a \cdot f)], x] /;$  FreeQ[{a, b, c, d, e, f, m, n, p}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[p] && GtQ[Simplify[b/(b\*c - a\*d)], 0] && GtQ[Simplify[b/(b

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*e - a*f]], 0] && !(GtQ[Simplify[d/(d*a - c*b)], 0] && GtQ[Simplify[d
/(d*e - c*f)], 0] && SimplrQ[c + d*x, a + b*x]) && !(GtQ[Simplify[f/
(f*a - e*b)], 0] && GtQ[Simplify[f/(f*c - e*d)], 0] && SimplrQ[e + f*
x, a + b*x])

156. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((e_) + (f_)*
(x_))^(p_), x_] := Simp[(e + f*x)^FracPart[p]/(Simplify[b/(b*e - a*f)]
^IntPart[p]*(b*((e + f*x)/(b*e - a*f)))^FracPart[p]) Int[(a + b*x)^m
*(c + d*x)^n*Simp[b*(e/(b*e - a*f)) + b*f*(x/(b*e - a*f)), x]^p, x], x
] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && !IntegerQ[m] && !Integ
erQ[n] && !IntegerQ[p] && GtQ[Simplify[b/(b*c - a*d)], 0] && !GtQ[Si
mplify[b/(b*e - a*f)], 0]

157. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((e_) + (f_)*
(x_))^(p_), x_] := Simp[(c + d*x)^FracPart[n]/(Simplify[b/(b*c - a*d)]
^IntPart[n]*(b*((c + d*x)/(b*c - a*d)))^FracPart[n]) Int[(a + b*x)^m
*Simp[b*(c/(b*c - a*d)) + b*d*(x/(b*c - a*d)), x]^n*(e + f*x)^p, x], x
] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && !IntegerQ[m] && !Integ
erQ[n] && !IntegerQ[p] && !GtQ[Simplify[b/(b*c - a*d)], 0] && !Simp
lerQ[c + d*x, a + b*x] && !SimplerQ[e + f*x, a + b*x]

158. Int[((a_) + (b_)*(u_))^(m_)*((c_) + (d_)*(u_))^(n_)*((e_) + (f_)
*(u_))^(p_), x_Symbol] := Simp[1/D[u, x] Subst[Int[(a + b*x)^m*(c
+ d*x)^n*(e + f*x)^p, x], x, u], x] /; FreeQ[{a, b, c, d, e, f, m, n,
p}, x] && LinearQ[u, x] && NeQ[u, x]

159. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((e_) + (f_)
*(x_))*((g_) + (h_)*(x_)), x_] := Int[ExpandIntegrand[(a + b*x)^m*(
c + d*x)^n*(e + f*x)*(g + h*x), x], x] /; FreeQ[{a, b, c, d, e, f, g,
h}, x] && (IGtQ[m, 0] || IntegersQ[m, n])

160. Int[((a_) + (b_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((e_) + (f_)
*(x_))*((g_) + (h_)*(x_)), x_] := Simp[(b^2*d*e*g - a^2*d*f*h*m - a*
b*(d*(f*g + e*h) - c*f*h*(m + 1)) + b*f*h*(b*c - a*d)*(m + 1)*x)*(a +
b*x)^(m + 1)*((c + d*x)^(n + 1)/(b^2*d*(b*c - a*d)*(m + 1))), x] + Sim
p[(a*d*f*h*m + b*(d*(f*g + e*h) - c*f*h*(m + 2)))/(b^2*d) Int[(a + b
*x)^(m + 1)*(c + d*x)^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n

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}, x] && EqQ[m + n + 2, 0] && NeQ[m, -1] && (SumSimplerQ[m, 1] || !SumSimplerQ[n, 1])
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161. Int[((a_.) + (b_.)*(x_))^(m_)*((c_.) + (d_.)*(x_))^(n_)*((e_) + (f_.)*(x_))*((g_.) + (h_.)*(x_)), x_] := Simp[((b^2*c*d*e*g*(n + 1) + a^2*c*d*f*h*(n + 1) + a*b*(d^2*e*g*(m + 1) + c^2*f*h*(m + 1) - c*d*(f*g + e*h)*(m + n + 2)) + (a^2*d^2*f*h*(n + 1) - a*b*d^2*(f*g + e*h)*(n + 1) + b^2*(c^2*f*h*(m + 1) - c*d*(f*g + e*h)*(m + 1) + d^2*e*g*(m + n + 2)))*x]/(b*d*(b*c - a*d)^2*(m + 1)*(n + 1))*(a + b*x)^(m + 1)*(c + d*x)^(n + 1), x] - Simp[(a^2*d^2*f*h*(2 + 3*n + n^2) + a*b*d*(n + 1)*(2*c*f*h*(m + 1) - d*(f*g + e*h)*(m + n + 3)) + b^2*(c^2*f*h*(2 + 3*m + m^2) - c*d*(f*g + e*h)*(m + 1)*(m + n + 3) + d^2*e*g*(6 + m^2 + 5*n + n^2 + m*(2*n + 5)))]/(b*d*(b*c - a*d)^2*(m + 1)*(n + 1)) Int[(a + b*x)^(m + 1)*(c + d*x)^(n + 1), x], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x] && LtQ[m, -1] && LtQ[n, -1]
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162. Int[((a_.) + (b_.)*(x_))^(m_)*((c_.) + (d_.)*(x_))^(n_)*((e_) + (f_.)*(x_))*((g_.) + (h_.)*(x_)), x_] := Simp[((b^3*c*e*g*(m + 2) - a^3*d*f*h*(n + 2) - a^2*b*(c*f*h*m - d*(f*g + e*h)*(m + n + 3)) - a*b^2*(c*(f*g + e*h) + d*e*g*(2*m + n + 4)) + b*(a^2*d*f*h*(m - n) - a*b*(2*c*f*h*(m + 1) - d*(f*g + e*h)*(n + 1)) + b^2*(c*(f*g + e*h)*(m + 1) - d*e*g*(m + n + 2)))*x]/(b^2*(b*c - a*d)^2*(m + 1)*(m + 2))*(a + b*x)^(m + 1)*(c + d*x)^(n + 1), x] + Simp[(f*(h/b^2) - (d*(m + n + 3)*(a^2*d*f*h*(m - n) - a*b*(2*c*f*h*(m + 1) - d*(f*g + e*h)*(n + 1)) + b^2*(c*(f*g + e*h)*(m + 1) - d*e*g*(m + n + 2)))]/(b^2*(b*c - a*d)^2*(m + 1)*(m + 2)) Int[(a + b*x)^(m + 2)*(c + d*x)^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n}, x] && (LtQ[m, -2] || (EqQ[m + n + 3, 0] && !LtQ[n, -2]))
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163. Int[((a_.) + (b_.)*(x_))^(m_)*((c_.) + (d_.)*(x_))^(n_)*((e_) + (f_.)*(x_))*((g_.) + (h_.)*(x_)), x_] := Simp[((a^2*d*f*h*(n + 2) + b^2*d*e*g*(m + n + 3) + a*b*(c*f*h*(m + 1) - d*(f*g + e*h)*(m + n + 3)) + b*f*h*(b*c - a*d)*(m + 1)*x]/(b^2*d*(b*c - a*d)*(m + 1)*(m + n + 3))*(a + b*x)^(m + 1)*(c + d*x)^(n + 1), x] - Simp[(a^2*d^2*f*h*(n + 1)*(n + 2) + a*b*d*(n + 1)*(2*c*f*h*(m + 1) - d*(f*g + e*h)*(m + n + 3)) + b^2*(c^2*f*h*(m + 1)*(m + 2) - c*d*(f*g + e*h)*(m + 1)*(m + n + 3) + d^2*e*g*(m + n + 2)*(m + n + 3))]/(b^2*d*(b*c - a*d)*(m + 1)*(m + n + 3)) Int[(a + b*x)^(m + 1)*(c + d*x)^n, x], x] /; FreeQ[{a, b, c, d, e, f
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, g, h, m, n}, x] && ((GeQ[m, -2] && LtQ[m, -1]) || SumSimplerQ[m, 1])
&& NeQ[m, -1] && NeQ[m + n + 3, 0]

164. Int[((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)
)*(x_))*((g_.) + (h_.)*(x_)), x_] := Simp[(-(a*d*f*h*(n + 2) + b*c*f*h
*(m + 2) - b*d*(f*g + e*h)*(m + n + 3) - b*d*f*h*(m + n + 2)*x))*(a +
b*x)^(m + 1)*((c + d*x)^(n + 1)/(b^2*d^2*(m + n + 2)*(m + n + 3))), x]
+ Simp[(a^2*d^2*f*h*(n + 1)*(n + 2) + a*b*d*(n + 1)*(2*c*f*h*(m + 1)
- d*(f*g + e*h)*(m + n + 3)) + b^2*(c^2*f*h*(m + 1)*(m + 2) - c*d*(f*g
+ e*h)*(m + 1)*(m + n + 3) + d^2*e*g*(m + n + 2)*(m + n + 3)))/(b^2*d
^2*(m + n + 2)*(m + n + 3)) Int[(a + b*x)^m*(c + d*x)^n, x], x] /; F
reeQ[{a, b, c, d, e, f, g, h, m, n}, x] && NeQ[m + n + 2, 0] && NeQ[m
+ n + 3, 0]

165. Int[((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)
(x_))^(p_.)((g_.) + (h_.)*(x_)), x_] := Int[ExpandIntegrand[(a + b*x)
^m*(c + d*x)^n*(e + f*x)^p*(g + h*x), x], x] /; FreeQ[{a, b, c, d, e,
f, g, h, m}, x] && (IntegersQ[m, n, p] || (IGtQ[n, 0] && IGtQ[p, 0]))

166. Int[((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)
(x_))^(p_.)((g_.) + (h_.)*(x_)), x_] := Simp[(b*g - a*h)*(a + b*x)^(m
+ 1)*(c + d*x)^n*((e + f*x)^(p + 1)/(b*(b*e - a*f)*(m + 1))), x] - Si
mp[1/(b*(b*e - a*f)*(m + 1)) Int[(a + b*x)^(m + 1)*(c + d*x)^(n - 1)
*(e + f*x)^p*Simp[b*c*(f*g - e*h)*(m + 1) + (b*g - a*h)*(d*e*n + c*f*(
p + 1)) + d*(b*(f*g - e*h)*(m + 1) + f*(b*g - a*h)*(n + p + 1))*x, x],
x], x] /; FreeQ[{a, b, c, d, e, f, g, h, p}, x] && ILtQ[m, -1] && GtQ
[n, 0]

167. Int[((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)
(x_))^(p_.)((g_.) + (h_.)*(x_)), x_] := Simp[(b*g - a*h)*(a + b*x)^(m
+ 1)*(c + d*x)^n*((e + f*x)^(p + 1)/(b*(b*e - a*f)*(m + 1))), x] - Si
mp[1/(b*(b*e - a*f)*(m + 1)) Int[(a + b*x)^(m + 1)*(c + d*x)^(n - 1)
*(e + f*x)^p*Simp[b*c*(f*g - e*h)*(m + 1) + (b*g - a*h)*(d*e*n + c*f*(
p + 1)) + d*(b*(f*g - e*h)*(m + 1) + f*(b*g - a*h)*(n + p + 1))*x, x],
x], x] /; FreeQ[{a, b, c, d, e, f, g, h, p}, x] && LtQ[m, -1] && GtQ[
n, 0] && IntegersQ[2*m, 2*n, 2*p]

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168.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}((e_.) + (f_.) * (x_))^{(p_)}((g_.) + (h_.)(x_)), x_] := \text{Simp}[(b*g - a*h)*(a + b*x)^{(m + 1)}*(c + d*x)^{(n + 1)}*((e + f*x)^{(p + 1)})/((m + 1)*(b*c - a*d)*(b*e - a*f))], x] + \text{Simp}[1/((m + 1)*(b*c - a*d)*(b*e - a*f)) \text{Int}[(a + b*x)^{(m + 1)}*(c + d*x)^n*(e + f*x)^p*\text{Simp}[(a*d*f*g - b*(d*e + c*f)*g + b*c*e*h)*(m + 1) - (b*g - a*h)*(d*e*(n + 1) + c*f*(p + 1)) - d*f*(b*g - a*h)*(m + n + p + 3)*x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, n, p\}, x] \&\& \text{ILtQ}[m, -1]$
169.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}((e_.) + (f_.) * (x_))^{(p_)}((g_.) + (h_.)(x_)), x_] := \text{Simp}[(b*g - a*h)*(a + b*x)^{(m + 1)}*(c + d*x)^{(n + 1)}*((e + f*x)^{(p + 1)})/((m + 1)*(b*c - a*d)*(b*e - a*f))], x] + \text{Simp}[1/((m + 1)*(b*c - a*d)*(b*e - a*f)) \text{Int}[(a + b*x)^{(m + 1)}*(c + d*x)^n*(e + f*x)^p*\text{Simp}[(a*d*f*g - b*(d*e + c*f)*g + b*c*e*h)*(m + 1) - (b*g - a*h)*(d*e*(n + 1) + c*f*(p + 1)) - d*f*(b*g - a*h)*(m + n + p + 3)*x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, n, p\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$
170.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}((e_.) + (f_.) * (x_))^{(p_)}((g_.) + (h_.)(x_)), x_] := \text{Simp}[h*(a + b*x)^m*(c + d*x)^{(n + 1)}*((e + f*x)^{(p + 1)})/(d*f*(m + n + p + 2))], x] + \text{Simp}[1/(d*f*(m + n + p + 2)) \text{Int}[(a + b*x)^{(m - 1)}*(c + d*x)^n*(e + f*x)^p*\text{Simp}[a*d*f*g*(m + n + p + 2) - h*(b*c*e*m + a*(d*e*(n + 1) + c*f*(p + 1))) + (b*d*f*g*(m + n + p + 2) + h*(a*d*f*m - b*(d*e*(m + n + 1) + c*f*(m + p + 1)))]*x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, n, p\}, x] \&\& \text{GtQ}[m, 0] \&\& \text{NeQ}[m + n + p + 2, 0] \&\& \text{IntegerQ}[m]$
171.  $\text{Int}[(a_. + (b_.)(x_))^{(m_)}((c_.) + (d_.)(x_))^{(n_)}((e_.) + (f_.) * (x_))^{(p_)}((g_.) + (h_.)(x_)), x_] := \text{Simp}[h*(a + b*x)^m*(c + d*x)^{(n + 1)}*((e + f*x)^{(p + 1)})/(d*f*(m + n + p + 2))], x] + \text{Simp}[1/(d*f*(m + n + p + 2)) \text{Int}[(a + b*x)^{(m - 1)}*(c + d*x)^n*(e + f*x)^p*\text{Simp}[a*d*f*g*(m + n + p + 2) - h*(b*c*e*m + a*(d*e*(n + 1) + c*f*(p + 1))) + (b*d*f*g*(m + n + p + 2) + h*(a*d*f*m - b*(d*e*(m + n + 1) + c*f*(m + p + 1)))]*x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, n, p\}, x] \&\& \text{GtQ}[m, 0] \&\& \text{NeQ}[m + n + p + 2, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$

172.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((c_{\cdot}) + (d_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})} \left((e_{\cdot}) + (f_{\cdot})(x_{\cdot})\right)^{(p_{\cdot})} \left((g_{\cdot}) + (h_{\cdot})(x_{\cdot})\right), x] \rightarrow \text{With}[\{\text{mnp} = \text{Simplify}[m + n + p]\}, \text{Simp}[(b_{\cdot}g_{\cdot} - a_{\cdot}h_{\cdot})(a + b_{\cdot}x)^{(m+1)}(c + d_{\cdot}x)^{(n+1)}((e + f_{\cdot}x)^{(p+1})/((m+1)(b_{\cdot}c - a_{\cdot}d)(b_{\cdot}e - a_{\cdot}f))), x] + \text{Simp}[1/((m+1)(b_{\cdot}c - a_{\cdot}d)(b_{\cdot}e - a_{\cdot}f)) \text{Int}[(a + b_{\cdot}x)^{(m+1)}(c + d_{\cdot}x)^n(e + f_{\cdot}x)^p \text{Simp}[(a_{\cdot}d_{\cdot}f_{\cdot}g_{\cdot} - b_{\cdot}(d_{\cdot}e + c_{\cdot}f)g_{\cdot} + b_{\cdot}c_{\cdot}e_{\cdot}h_{\cdot})(m+1) - (b_{\cdot}g_{\cdot} - a_{\cdot}h_{\cdot})(d_{\cdot}e_{\cdot}(n+1) + c_{\cdot}f_{\cdot}(p+1)) - d_{\cdot}f_{\cdot}(b_{\cdot}g_{\cdot} - a_{\cdot}h_{\cdot})(\text{mnp} + 3)x, x], x], x] /; \text{ILtQ}[\text{mnp} + 2, 0] \&\& (\text{SumSimplerQ}[m, 1] \|\| ( !(\text{NeQ}[n, -1] \&\& \text{SumSimplerQ}[n, 1]) \&\& !(\text{NeQ}[p, -1] \&\& \text{SumSimplerQ}[p, 1]))) /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, n, p\}, x] \&\& \text{NeQ}[m, -1]$
173.  $\text{Int}[\left(\left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(m_{\cdot}\right)} \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(n_{\cdot}\right)} \left(\left(g_{\cdot}\right) + \left(h_{\cdot}\right)\left(x_{\cdot}\right)\right) / \left(\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)\right), x] \rightarrow \text{Simp}[(f_{\cdot}g_{\cdot} - e_{\cdot}h_{\cdot})(c_{\cdot}f - d_{\cdot}e)^{(m+n+1)}/f^{(m+n+2)} \text{Int}[(a + b_{\cdot}x)^m / ((c + d_{\cdot}x)^{(m+1)}(e + f_{\cdot}x))], x] + \text{Simp}[1/f^{(m+n+2)} \text{Int}[\left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\left(x_{\cdot}\right)\right)^m / (c + d_{\cdot}x)^{(m+1)}] * \text{ExpandToSum}[(f^{(m+n+2)}(c + d_{\cdot}x)^{(m+n+1)}(g + h_{\cdot}x) - (f_{\cdot}g_{\cdot} - e_{\cdot}h_{\cdot})(c_{\cdot}f - d_{\cdot}e)^{(m+n+1)}) / (e + f_{\cdot}x), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{IGtQ}[m + n + 1, 0] \&\& (\text{LtQ}[m, 0] \|\| \text{SumSimplerQ}[m, 1] \|\| !\text{SumSimplerQ}[n, 1])$
174.  $\text{Int}[\left(\left(\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(p_{\cdot}\right)} \left(\left(g_{\cdot}\right) + \left(h_{\cdot}\right)\left(x_{\cdot}\right)\right) / \left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\left(x_{\cdot}\right)\right) \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right)\left(x_{\cdot}\right)\right), x] \rightarrow \text{Simp}[(b_{\cdot}g_{\cdot} - a_{\cdot}h_{\cdot}) / (b_{\cdot}c - a_{\cdot}d) \text{Int}[(e + f_{\cdot}x)^p / (a + b_{\cdot}x), x], x] - \text{Simp}[(d_{\cdot}g_{\cdot} - c_{\cdot}h_{\cdot}) / (b_{\cdot}c - a_{\cdot}d) \text{Int}[(e + f_{\cdot}x)^p / (c + d_{\cdot}x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x]$
175.  $\text{Int}[\left(\left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(n_{\cdot}\right)} \left(\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(p_{\cdot}\right)} \left(\left(g_{\cdot}\right) + \left(h_{\cdot}\right)\left(x_{\cdot}\right)\right) / \left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\left(x_{\cdot}\right)\right), x] \rightarrow \text{Simp}[h/b \text{Int}[(c + d_{\cdot}x)^n(e + f_{\cdot}x)^p, x], x] + \text{Simp}[(b_{\cdot}g_{\cdot} - a_{\cdot}h_{\cdot})/b \text{Int}[(c + d_{\cdot}x)^n(e + f_{\cdot}x)^p / (a + b_{\cdot}x)], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, n, p\}, x]$
176.  $\text{Int}[\left(\left(g_{\cdot}\right) + \left(h_{\cdot}\right)\left(x_{\cdot}\right)\right) / \left(\text{Sqrt}[\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\left(x_{\cdot}\right)] * \text{Sqrt}[\left(c_{\cdot}\right) + \left(d_{\cdot}\right)\left(x_{\cdot}\right)] * \text{Sqrt}[\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)]\right), x] \rightarrow \text{Simp}[h/f \text{Int}[\text{Sqrt}[e + f_{\cdot}x] / (\text{Sqrt}[a + b_{\cdot}x] * \text{Sqrt}[c + d_{\cdot}x])], x], x] + \text{Simp}[(f_{\cdot}g_{\cdot} - e_{\cdot}h_{\cdot})/f \text{Int}[1 / (\text{Sqrt}[a + b_{\cdot}x] * \text{Sqrt}[c + d_{\cdot}x] * \text{Sqrt}[e + f_{\cdot}x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{SimplerQ}[a + b_{\cdot}x, e + f_{\cdot}x] \&\& \text{SimplerQ}[c + d_{\cdot}x, e + f_{\cdot}x]$



177.  $\text{Int}[(a_.) + (b_.)(x_.)]^{(m_.)}((c_.) + (d_.)(x_.))^{(n_.)}((e_.) + (f_.)(x_.))^{(p_.)}((g_.) + (h_.)(x_.)), x_] := \text{Simp}[h/b \text{Int}[(a + b*x)^{(m+1)}(c + d*x)^n(e + f*x)^p, x], x] + \text{Simp}[(b*g - a*h)/b \text{Int}[(a + b*x)^m(c + d*x)^n(e + f*x)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m, n, p\}, x] \&\& (\text{SumSimplerQ}[m, 1] || (!\text{SumSimplerQ}[n, 1] \&\& !\text{SumSimplerQ}[p, 1]))$
178.  $\text{Int}[(a_.) + (b_.)(x_.)]^{(m_.)}\text{Sqrt}[(c_.) + (d_.)(x_.)]\text{Sqrt}[(e_.) + (f_.)(x_.)]\text{Sqrt}[(g_.) + (h_.)(x_.)], x_] := \text{Simp}[(a + b*x)^{(m+1)}\text{Sqrt}[c + d*x]\text{Sqrt}[e + f*x](\text{Sqrt}[g + h*x]/(b*(m+1))), x] - \text{Simp}[1/(2*b*(m+1)) \text{Int}[(a + b*x)^{(m+1)}/(\text{Sqrt}[c + d*x]\text{Sqrt}[e + f*x]\text{Sqrt}[g + h*x])]*\text{Simp}[d*e*g + c*f*g + c*e*h + 2*(d*f*g + d*e*h + c*f*h)*x + 3*d*f*h*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m\}, x] \&\& \text{IntegerQ}[2*m] \&\& \text{LtQ}[m, -1]$
179.  $\text{Int}[(a_.) + (b_.)(x_.)]^{(m_.)}\text{Sqrt}[(c_.) + (d_.)(x_.)]\text{Sqrt}[(e_.) + (f_.)(x_.)]\text{Sqrt}[(g_.) + (h_.)(x_.)], x_] := \text{Simp}[2*(a + b*x)^{(m+1)}\text{Sqrt}[c + d*x]\text{Sqrt}[e + f*x](\text{Sqrt}[g + h*x]/(b*(2*m+5))), x] + \text{Simp}[1/(b*(2*m+5)) \text{Int}[(a + b*x)^m/(\text{Sqrt}[c + d*x]\text{Sqrt}[e + f*x]\text{Sqrt}[g + h*x])]*\text{Simp}[3*b*c*e*g - a*(d*e*g + c*f*g + c*e*h) + 2*(b*(d*e*g + c*f*g + c*e*h) - a*(d*f*g + d*e*h + c*f*h))*x - (3*a*d*f*h - b*(d*f*g + d*e*h + c*f*h))*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m\}, x] \&\& \text{IntegerQ}[2*m] \&\& !\text{LtQ}[m, -1]$
180.  $\text{Int}[(((a_.) + (b_.)(x_.))^{(m_.)}\text{Sqrt}[(e_.) + (f_.)(x_.)]\text{Sqrt}[(g_.) + (h_.)(x_.)])/\text{Sqrt}[(c_.) + (d_.)(x_.)], x_] := \text{Simp}[2*(a + b*x)^m\text{Sqrt}[c + d*x]\text{Sqrt}[e + f*x](\text{Sqrt}[g + h*x]/(d*(2*m+3))), x] - \text{Simp}[1/(d*(2*m+3)) \text{Int}[(a + b*x)^{(m-1)}/(\text{Sqrt}[c + d*x]\text{Sqrt}[e + f*x]\text{Sqrt}[g + h*x])]*\text{Simp}[2*b*c*e*g*m + a*(c*(f*g + e*h) - 2*d*e*g*(m+1)) - (b*(2*d*e*g - c*(f*g + e*h)*(2*m+1)) - a*(2*c*f*h - d*(2*m+1)*(f*g + e*h)))*x - (2*a*d*f*h*m + b*(d*(f*g + e*h) - 2*c*f*h*(m+1)))*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m\}, x] \&\& \text{IntegerQ}[2*m] \&\& \text{GtQ}[m, 0]$
181.  $\text{Int}[(\text{Sqrt}[(e_.) + (f_.)(x_.)]\text{Sqrt}[(g_.) + (h_.)(x_.)])/(((a_.) + (b_.)(x_.))\text{Sqrt}[(c_.) + (d_.)(x_.)]), x_] := \text{Simp}[(b*e - a*f)*((b*g - a*h)/b^2) \text{Int}[1/((a + b*x)\text{Sqrt}[c + d*x]\text{Sqrt}[e + f*x]\text{Sqrt}[g + h*x]),$

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x], x] + Simp[1/b^2 Int[Simp[b*f*g + b*e*h - a*f*h + b*f*h*x, x]/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]), x], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x]

182. Int[(((a_.) + (b_.)*(x_.))^(m_.)*Sqrt[(e_.) + (f_.)*(x_.)]*Sqrt[(g_.) + (h_.)*(x_.)]/Sqrt[(c_.) + (d_.)*(x_.)]), x_] := Simp[(a + b*x)^(m + 1)*Sqrt[c + d*x]*Sqrt[e + f*x]*(Sqrt[g + h*x]/((m + 1)*(b*c - a*d))), x] - Simp[1/(2*(m + 1)*(b*c - a*d)) Int[((a + b*x)^(m + 1)/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]))*Simp[c*(f*g + e*h) + d*e*g*(2*m + 3) + 2*(c*f*h + d*(m + 2)*(f*g + e*h))*x + d*f*h*(2*m + 5)*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m}, x] && IntegerQ[2*m] && LtQ[m, -1]

183. Int[Sqrt[(a_.) + (b_.)*(x_.)]/(Sqrt[(c_.) + (d_.)*(x_.)]*Sqrt[(e_.) + (f_.)*(x_.)]*Sqrt[(g_.) + (h_.)*(x_.)]), x_] := Simp[2*(a + b*x)*Sqrt[(b*g - a*h)*((c + d*x)/((d*g - c*h)*(a + b*x)))]*(Sqrt[(b*g - a*h)*((e + f*x)/((f*g - e*h)*(a + b*x)))]/(Sqrt[c + d*x]*Sqrt[e + f*x])) Subst[Int[1/((h - b*x^2)*Sqrt[1 + (b*c - a*d)*(x^2/(d*g - c*h))]]*Sqrt[1 + (b*e - a*f)*(x^2/(f*g - e*h))]], x], x, Sqrt[g + h*x]/Sqrt[a + b*x]], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x]

184. Int[((a_.) + (b_.)*(x_.))^(3/2)/(Sqrt[(c_.) + (d_.)*(x_.)]*Sqrt[(e_.) + (f_.)*(x_.)]*Sqrt[(g_.) + (h_.)*(x_.)]), x_] := Simp[b/d Int[Sqrt[a + b*x]*(Sqrt[c + d*x]/(Sqrt[e + f*x]*Sqrt[g + h*x])), x], x] - Simp[(b*c - a*d)/d Int[Sqrt[a + b*x]/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]), x], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x]

185. Int[((a_.) + (b_.)*(x_.))^(m_.)/(Sqrt[(c_.) + (d_.)*(x_.)]*Sqrt[(e_.) + (f_.)*(x_.)]*Sqrt[(g_.) + (h_.)*(x_.)]), x_] := Simp[2*b^2*(a + b*x)^(m - 2)*Sqrt[c + d*x]*Sqrt[e + f*x]*(Sqrt[g + h*x]/(d*f*h*(2*m - 1))), x] - Simp[1/(d*f*h*(2*m - 1)) Int[((a + b*x)^(m - 3)/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]))*Simp[a*b^2*(d*e*g + c*f*g + c*e*h) + 2*b^3*c*e*g*(m - 2) - a^3*d*f*h*(2*m - 1) + b*(2*a*b*(d*f*g + d*e*h + c*f*h) + b^2*(2*m - 3)*(d*e*g + c*f*g + c*e*h) - 3*a^2*d*f*h*(2*m - 1))*x - 2*b^2*(m - 1)*(3*a*d*f*h - b*(d*f*g + d*e*h + c*f*h))*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x] && IntegerQ[2*m] && GeQ[m, 2]

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186. `Int[1/(((a_.) + (b_.)*(x_))*Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(g_.) + (h_.)*(x_)]), x_] := Simp[-2 Subst[Int[1/(Simp[b*c - a*d - b*x^2, x]*Sqrt[Simp[(d*e - c*f)/d + f*(x^2/d), x]]*Sqrt[Simp[(d*g - c*h)/d + h*(x^2/d), x]]), x], x, Sqrt[c + d*x]], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x] && GtQ[(d*e - c*f)/d, 0]`
187. `Int[1/(((a_.) + (b_.)*(x_))*Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(g_.) + (h_.)*(x_)]), x_] := Simp[-2 Subst[Int[1/(Simp[b*c - a*d - b*x^2, x]*Sqrt[Simp[(d*e - c*f)/d + f*(x^2/d), x]]*Sqrt[Simp[(d*g - c*h)/d + h*(x^2/d), x]]), x], x, Sqrt[c + d*x]], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x] && !SimplerQ[e + f*x, c + d*x] && !SimplerQ[g + h*x, c + d*x]`
188. `Int[1/(Sqrt[(a_.) + (b_.)*(x_)]*Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(g_.) + (h_.)*(x_)]), x_] := Simp[2*Sqrt[g + h*x]*(Sqrt[(b*e - a*f)*((c + d*x)/((d*e - c*f)*(a + b*x)))]/((f*g - e*h)*Sqrt[c + d*x]*Sqrt[(-(b*e - a*f))*((g + h*x)/((f*g - e*h)*(a + b*x)))])) Subst[Int[1/(Sqrt[1 + (b*c - a*d)*(x^2/(d*e - c*f))]*Sqrt[1 - (b*g - a*h)*(x^2/(f*g - e*h))]), x], x, Sqrt[e + f*x]/Sqrt[a + b*x]], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x]`
189. `Int[1/(((a_.) + (b_.)*(x_))^(3/2)*Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(g_.) + (h_.)*(x_)]), x_] := Simp[-d/(b*c - a*d) Int[1/(Sqrt[a + b*x]*Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]), x], x] + Simp[b/(b*c - a*d) Int[Sqrt[c + d*x]/((a + b*x)^(3/2)*Sqrt[e + f*x]*Sqrt[g + h*x]), x], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x]`
190. `Int[((a_.) + (b_.)*(x_))^(m_)/(Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(g_.) + (h_.)*(x_)]), x_] := Simp[b^2*(a + b*x)^(m + 1)*Sqrt[c + d*x]*Sqrt[e + f*x]*(Sqrt[g + h*x]/((m + 1)*(b*c - a*d)*(b*e - a*f)*(b*g - a*h))), x] - Simp[1/(2*(m + 1)*(b*c - a*d)*(b*e - a*f)*(b*g - a*h)) Int[((a + b*x)^(m + 1)/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x))*Simp[2*a^2*d*f*h*(m + 1) - 2*a*b*(m + 1)*(d*f*g + d*e*h + c*f*h) + b^2*(2*m + 3)*(d*e*g + c*f*g + c*e*h) - 2*b*(a*d*f*h*(m + 1) - b*(m + 2)*(d*f*g + d*e*h + c*f*h))*x + d*f*h*(2*m + 5)*b^2*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, h}, x] && IntegerQ[2*m] && LeQ[m, -2]`

191. $\text{Int}[(\text{Sqrt}[a_.] + (b_.)(x_)] * \text{Sqrt}[(c_.) + (d_.)(x_)] / (\text{Sqrt}[(e_.) + (f_.)(x_)] * \text{Sqrt}[(g_.) + (h_.)(x_)]), x] \rightarrow \text{Simp}[\text{Sqrt}[a + b*x] * \text{Sqrt}[c + d*x] * (\text{Sqrt}[g + h*x] / (h * \text{Sqrt}[e + f*x])), x] + (-\text{Simp}[(d*e - c*f) * ((f*g - e*h) / (2*f*h)) \text{Int}[\text{Sqrt}[a + b*x] / (\text{Sqrt}[c + d*x] * (e + f*x)^{(3/2)} * \text{Sqrt}[g + h*x]), x], x] + \text{Simp}[(a*d*f*h - b*(d*f*g + d*e*h - c*f*h)) / (2*f^2*h) \text{Int}[\text{Sqrt}[e + f*x] / (\text{Sqrt}[a + b*x] * \text{Sqrt}[c + d*x] * \text{Sqrt}[g + h*x]), x], x] + \text{Simp}[(d*e - c*f) * ((b*f*g + b*e*h - 2*a*f*h) / (2*f^2*h)) \text{Int}[1 / (\text{Sqrt}[a + b*x] * \text{Sqrt}[c + d*x] * \text{Sqrt}[e + f*x] * \text{Sqrt}[g + h*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x]$
192. $\text{Int}[(((a_.) + (b_.)(x_))^{(m_)} * \text{Sqrt}[(c_.) + (d_.)(x_)] / (\text{Sqrt}[(e_.) + (f_.)(x_)] * \text{Sqrt}[(g_.) + (h_.)(x_)]), x] \rightarrow \text{Simp}[2*b*(a + b*x)^{(m-1)} * \text{Sqrt}[c + d*x] * \text{Sqrt}[e + f*x] * (\text{Sqrt}[g + h*x] / (f*h*(2*m + 1))), x] - \text{Simp}[1 / (f*h*(2*m + 1)) \text{Int}[((a + b*x)^{(m-2)} / (\text{Sqrt}[c + d*x] * \text{Sqrt}[e + f*x] * \text{Sqrt}[g + h*x])) * \text{Simp}[a*b*(d*e*g + c*(f*g + e*h)) + 2*b^2*c*e*g*(m-1) - a^2*c*f*h*(2*m + 1) + (b^2*(2*m-1)*(d*e*g + c*(f*g + e*h)) - a^2*d*f*h*(2*m + 1) + 2*a*b*(d*f*g + d*e*h - 2*c*f*h*m)) * x - b*(a*d*f*h*(4*m-1) + b*(c*f*h - 2*d*(f*g + e*h)*m)) * x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m\}, x] \&\& \text{IntegerQ}[2*m] \&\& \text{GtQ}[m, 1]$
193. $\text{Int}[\text{Sqrt}[(c_.) + (d_.)(x_)] / (((a_.) + (b_.)(x_)) * \text{Sqrt}[(e_.) + (f_.)(x_)] * \text{Sqrt}[(g_.) + (h_.)(x_)]), x] \rightarrow \text{Simp}[d/b \text{Int}[1 / (\text{Sqrt}[c + d*x] * \text{Sqrt}[e + f*x] * \text{Sqrt}[g + h*x]), x], x] + \text{Simp}[(b*c - a*d) / b \text{Int}[1 / ((a + b*x) * \text{Sqrt}[c + d*x] * \text{Sqrt}[e + f*x] * \text{Sqrt}[g + h*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x]$
194. $\text{Int}[\text{Sqrt}[(c_.) + (d_.)(x_)] / (((a_.) + (b_.)(x_))^{(3/2)} * \text{Sqrt}[(e_.) + (f_.)(x_)] * \text{Sqrt}[(g_.) + (h_.)(x_)]), x] \rightarrow \text{Simp}[-2 * \text{Sqrt}[c + d*x] * (\text{Sqrt}[(- (b*e - a*f)) * ((g + h*x) / ((f*g - e*h) * (a + b*x)))] / ((b*e - a*f) * \text{Sqrt}[g + h*x] * \text{Sqrt}[(b*e - a*f) * ((c + d*x) / ((d*e - c*f) * (a + b*x))])) \text{Subst}[\text{Int}[\text{Sqrt}[1 + (b*c - a*d) * (x^2 / (d*e - c*f))] / \text{Sqrt}[1 - (b*g - a*h) * (x^2 / (f*g - e*h))], x], x, \text{Sqrt}[e + f*x] / \text{Sqrt}[a + b*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x]$
195. $\text{Int}[(((a_.) + (b_.)(x_))^{(m_)} * \text{Sqrt}[(c_.) + (d_.)(x_)] / (\text{Sqrt}[(e_.) + (f_.)(x_)] * \text{Sqrt}[(g_.) + (h_.)(x_)]), x] \rightarrow \text{Simp}[b*(a + b*x)^{(m+1)}$

- $$) * \text{Sqrt}[c + d*x] * \text{Sqrt}[e + f*x] * (\text{Sqrt}[g + h*x] / ((m + 1) * (b*e - a*f) * (b*g - a*h))), x] + \text{Simp}[1 / (2 * (m + 1) * (b*e - a*f) * (b*g - a*h)) \text{Int}[(a + b*x)^{(m + 1)} / (\text{Sqrt}[c + d*x] * \text{Sqrt}[e + f*x] * \text{Sqrt}[g + h*x])] * \text{Simp}[2 * a * c * f * h * (m + 1) - b * (d * e * g + c * (2 * m + 3) * (f * g + e * h)) + 2 * (a * d * f * h * (m + 1) - b * (m + 2) * (d * f * g + d * e * h + c * f * h)) * x - b * d * f * h * (2 * m + 5) * x^2, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m\}, x] \&\& \text{IntegerQ}[2 * m] \&\& \text{LeQ}[m, -2]$$
196. $\text{Int}[\frac{((e_{\cdot}) + (f_{\cdot}) * (x_{\cdot}))^{(p_{\cdot})} * ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})}{((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot})) * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))}, x] \rightarrow \text{Simp}[(b * e - a * f) / (b * c - a * d) \text{Int}[(e + f * x)^{(p - 1)} * ((g + h * x)^q / (a + b * x)), x], x] - \text{Simp}[(d * e - c * f) / (b * c - a * d) \text{Int}[(e + f * x)^{(p - 1)} * ((g + h * x)^q / (c + d * x)), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, q\}, x] \&\& \text{LtQ}[0, p, 1]$
197. $\text{Int}[\frac{((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(m_{\cdot})} * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(n_{\cdot})})}{(\text{Sqrt}[(e_{\cdot}) + (f_{\cdot}) * (x_{\cdot})] * \text{Sqrt}[(g_{\cdot}) + (h_{\cdot}) * (x_{\cdot})])}, x] \rightarrow \text{Int}[\text{ExpandIntegrand}[1 / (\text{Sqrt}[c + d*x] * \text{Sqrt}[e + f*x] * \text{Sqrt}[g + h*x]), (a + b*x)^m * (c + d*x)^{(n + 1/2)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[n + 1/2]$
198. $\text{Int}[\frac{((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(m_{\cdot})} * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(n_{\cdot})} * ((e_{\cdot}) + (f_{\cdot}) * (x_{\cdot}))^{(p_{\cdot})} * ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})}{(a + b*x)^m * (c + d*x)^n * (e + f*x)^p * (g + h*x)^q}, x] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*x)^m * (c + d*x)^n * (e + f*x)^p * (g + h*x)^q, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n\}, x] \&\& \text{IntegersQ}[p, q]$
199. $\text{Int}[\frac{((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(m_{\cdot})} * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(n_{\cdot})} * ((e_{\cdot}) + (f_{\cdot}) * (x_{\cdot}))^{(p_{\cdot})} * ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})}{(a + b*x)^{(m + 1)} * (c + d*x)^n * (e + f*x)^p * (g + h*x)^{(q - 1)}, x], x] + \text{Simp}[(b * g - a * h) / b \text{Int}[(a + b*x)^m * (c + d*x)^n * (e + f*x)^p * (g + h*x)^{(q - 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n, p\}, x] \&\& \text{IGtQ}[q, 0] \&\& (\text{SumSimplerQ}[m, 1] || (!\text{SumSimplerQ}[n, 1] \&\& !\text{SumSimplerQ}[p, 1]))$
200. $\text{Int}[\frac{((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(m_{\cdot})} * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(n_{\cdot})} * ((e_{\cdot}) + (f_{\cdot}) * (x_{\cdot}))^{(p_{\cdot})} * ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})}{(a + b*x)^m * (c + d*x)^n * (e + f*x)^p * (g + h*x)^q}, x] \rightarrow \text{CannotIntegrate}[(a + b*x)^m * (c + d*x)^n * (e + f*x)^p * (g + h*x)^q, x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n, p, q\}, x]$

201. $\text{Int}[(a_. + (b_.)(u_))^{(m_.)}((c_.) + (d_.)(u_))^{(n_.)}((e_.) + (f_.)(u_))^{(p_.)}((g_.) + (h_.)(u_))^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(a + b*x)^m*(c + d*x)^n*(e + f*x)^p*(g + h*x)^q, x], x, u], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n, p, q\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
202. $\text{Int}[(i_.)((a_.) + (b_.)(x_))^{(m_.)}((c_.) + (d_.)(x_))^{(n_.)}((e_.) + (f_.)(x_))^{(p_.)}((g_.) + (h_.)(x_))^{(q_.)}]^{(r_.)}, x_Symbol] \rightarrow \text{Simp}[(i*(a + b*x)^m*(c + d*x)^n*(e + f*x)^p*(g + h*x)^q)^r / ((a + b*x)^{m*r}*(c + d*x)^{n*r}*(e + f*x)^{p*r}*(g + h*x)^{q*r}) \text{ Int}[(a + b*x)^{m*r}*(c + d*x)^{n*r}*(e + f*x)^{p*r}*(g + h*x)^{q*r}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, i, m, n, p, q, r\}, x]$
203. $\text{Int}[(u_)^{(m_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m, x] /; \text{FreeQ}[m, x] \&\& \text{LinearQ}[u, x] \&\& !\text{LinearMatchQ}[u, x]$
204. $\text{Int}[(u_)^{(m_.)}(v_)^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m \text{ ExpandToSum}[v, x]^n, x] /; \text{FreeQ}[\{m, n\}, x] \&\& \text{LinearQ}[\{u, v\}, x] \&\& !\text{LinearMatchQ}[\{u, v\}, x]$
205. $\text{Int}[(u_)^{(m_.)}(v_)^{(n_.)}(w_)^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m \text{ ExpandToSum}[v, x]^n \text{ ExpandToSum}[w, x]^p, x] /; \text{FreeQ}[\{m, n, p\}, x] \&\& \text{LinearQ}[\{u, v, w\}, x] \&\& !\text{LinearMatchQ}[\{u, v, w\}, x]$
206. $\text{Int}[(u_)^{(m_.)}(v_)^{(n_.)}(w_)^{(p_.)}(z_)^{(q_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m \text{ ExpandToSum}[v, x]^n \text{ ExpandToSum}[w, x]^p \text{ ExpandToSum}[z, x]^q, x] /; \text{FreeQ}[\{m, n, p, q\}, x] \&\& \text{LinearQ}[\{u, v, w, z\}, x] \&\& !\text{LinearMatchQ}[\{u, v, w, z\}, x]$
207. $\text{Int}[(b_.)(x_)^2]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[b^{\text{IntPart}[p]}((b*x^2)^{\text{FracPart}[p]}) / x^{(2*\text{FracPart}[p])}] \text{ Int}[x^{(2*p)}, x], x] /; \text{FreeQ}[\{b, p\}, x]$
208. $\text{Int}[(a_) + (b_.)(x_)^2]^{(-3/2)}, x_Symbol] \rightarrow \text{Simp}[x/(a*\text{Sqrt}[a + b*x^2]), x] /; \text{FreeQ}[\{a, b\}, x]$

209. $\text{Int}[(a + b \cdot x^2)^p, x] := \text{Simp}[(-x) \cdot (a + b \cdot x^2)^{p+1} / (2 \cdot a \cdot (p + 1)), x] + \text{Simp}[(2 \cdot p + 3) / (2 \cdot a \cdot (p + 1)) \text{Int}[(a + b \cdot x^2)^{p+1}, x], x] /;$ $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{ILtQ}[p + 3/2, 0]$
210. $\text{Int}[(a + b \cdot x^2)^p, x] := \text{Int}[\text{ExpandIntegrand}[(a + b \cdot x^2)^p, x], x] /;$ $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{IGtQ}[p, 0]$
211. $\text{Int}[(a + b \cdot x^2)^p, x] := \text{Simp}[x \cdot (a + b \cdot x^2)^p / (2 \cdot p + 1), x] + \text{Simp}[2 \cdot a \cdot (p / (2 \cdot p + 1)) \text{Int}[(a + b \cdot x^2)^{p-1}, x], x] /;$ $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ (\text{IntegerQ}[4 \cdot p] \ || \ \text{IntegerQ}[6 \cdot p])$
212. $\text{Int}[(a + b \cdot x^2)^{-5/4}, x] := \text{Simp}[(2 / (a^{5/4}) \cdot \text{Rt}[b/a, 2]) \cdot \text{EllipticE}[(1/2) \cdot \text{ArcTan}[\text{Rt}[b/a, 2] \cdot x], 2], x] /;$ $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{GtQ}[a, 0] \ \&\& \ \text{PosQ}[b/a]$
213. $\text{Int}[(a + b \cdot x^2)^{-5/4}, x] := \text{Simp}[(1 + b \cdot (x^2/a))^{1/4} / (a \cdot (a + b \cdot x^2)^{1/4}) \text{Int}[1 / (1 + b \cdot (x^2/a))^{5/4}, x], x] /;$ $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{PosQ}[a] \ \&\& \ \text{PosQ}[b/a]$
214. $\text{Int}[(a + b \cdot x^2)^{-7/6}, x] := \text{Simp}[1 / ((a + b \cdot x^2)^{2/3} \cdot (a / (a + b \cdot x^2))^{2/3}) \text{Subst}[\text{Int}[1 / (1 - b \cdot x^2)^{1/3}, x], x, x / \text{Sqrt}[a + b \cdot x^2]], x] /;$ $\text{FreeQ}\{a, b, x\}$
215. $\text{Int}[(a + b \cdot x^2)^p, x] := \text{Simp}[(-x) \cdot (a + b \cdot x^2)^{p+1} / (2 \cdot a \cdot (p + 1)), x] + \text{Simp}[(2 \cdot p + 3) / (2 \cdot a \cdot (p + 1)) \text{Int}[(a + b \cdot x^2)^{p+1}, x], x] /;$ $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ (\text{IntegerQ}[4 \cdot p] \ || \ \text{IntegerQ}[6 \cdot p])$
216. $\text{Int}[(a + b \cdot x^2)^{-1}, x] := \text{Simp}[(1 / (\text{Rt}[a, 2] \cdot \text{Rt}[b, 2])) \cdot \text{ArcTan}[\text{Rt}[b, 2] \cdot (x / \text{Rt}[a, 2])], x] /;$ $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{PosQ}[a/b] \ \&\& \ (\text{GtQ}[a, 0] \ || \ \text{GtQ}[b, 0])$
217. $\text{Int}[(a + b \cdot x^2)^{-1}, x] := \text{Simp}[(-\text{Rt}[-a, 2] \cdot \text{Rt}[-b, 2])^{-1} \cdot \text{ArcTan}[\text{Rt}[-b, 2] \cdot (x / \text{Rt}[-a, 2])], x] /;$ $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{PosQ}[a/b] \ \&\& \ (\text{LtQ}[a, 0] \ || \ \text{LtQ}[b, 0])$

218. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{-1}, x_Symbol] \rightarrow \text{Simp}[(\text{Rt}[a/b, 2]/a) \cdot \text{ArcTan}[x/\text{Rt}[a/b, 2]], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{PosQ}[a/b]$
219. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{-1}, x_Symbol] \rightarrow \text{Simp}[(1/(\text{Rt}[a, 2] \cdot \text{Rt}[-b, 2])) \cdot \text{ArcTanh}[\text{Rt}[-b, 2] \cdot (x/\text{Rt}[a, 2])], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{NegQ}[a/b] \ \&\& \ (\text{GtQ}[a, 0] \ || \ \text{LtQ}[b, 0])$
220. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{-1}, x_Symbol] \rightarrow \text{Simp}[(-\text{Rt}[-a, 2] \cdot \text{Rt}[b, 2])^{-1} \cdot \text{ArcTanh}[\text{Rt}[b, 2] \cdot (x/\text{Rt}[-a, 2])], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{NegQ}[a/b] \ \&\& \ (\text{LtQ}[a, 0] \ || \ \text{GtQ}[b, 0])$
221. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{-1}, x_Symbol] \rightarrow \text{Simp}[(\text{Rt}[-a/b, 2]/a) \cdot \text{ArcTanh}[x/\text{Rt}[-a/b, 2]], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{NegQ}[a/b]$
222. $\text{Int}[1/\text{Sqrt}[(a_+ + (b_+)(x_+)^2], x_Symbol] \rightarrow \text{Simp}[\text{ArcSinh}[\text{Rt}[b, 2] \cdot (x/\text{Sqrt}[a])]/\text{Rt}[b, 2], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{GtQ}[a, 0] \ \&\& \ \text{PosQ}[b]$
223. $\text{Int}[1/\text{Sqrt}[(a_+ + (b_+)(x_+)^2], x_Symbol] \rightarrow \text{Simp}[\text{ArcSin}[\text{Rt}[-b, 2] \cdot (x/\text{Sqrt}[a])]/\text{Rt}[-b, 2], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{GtQ}[a, 0] \ \&\& \ \text{NegQ}[b]$
224. $\text{Int}[1/\text{Sqrt}[(a_+ + (b_+)(x_+)^2], x_Symbol] \rightarrow \text{Subst}[\text{Int}[1/(1 - b \cdot x^2), x], x, x/\text{Sqrt}[a + b \cdot x^2]] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ !\text{GtQ}[a, 0]$
225. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{-1/4}, x_Symbol] \rightarrow \text{Simp}[2 \cdot (x/(a + b \cdot x^2))^{1/4}, x] - \text{Simp}[a \cdot \text{Int}[1/(a + b \cdot x^2)^{5/4}, x], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{GtQ}[a, 0] \ \&\& \ \text{PosQ}[b/a]$
226. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{-1/4}, x_Symbol] \rightarrow \text{Simp}[(2/(a^{1/4} \cdot \text{Rt}[-b/a, 2])) \cdot \text{EllipticE}[(1/2) \cdot \text{ArcSin}[\text{Rt}[-b/a, 2] \cdot x], 2], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{GtQ}[a, 0] \ \&\& \ \text{NegQ}[b/a]$
227. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{-1/4}, x_Symbol] \rightarrow \text{Simp}[(1 + b \cdot (x^2/a))^{1/4}/(a + b \cdot x^2)^{1/4} \cdot \text{Int}[1/(1 + b \cdot (x^2/a))^{1/4}, x], x] /; \text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{PosQ}[a]$

228. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-1/4}, x_Symbol] \rightarrow \text{Simp}[2*(\text{Sqrt}[(-b)*(x^2/a)]/(b*x)) \text{ Subst}[\text{Int}[x^2/\text{Sqrt}[1 - x^4/a], x], x, (a + b*x^2)^{1/4}], x] /; \text{FreeQ}\{a, b\}, x] \ \&\& \ \text{NegQ}[a]$
229. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-3/4}, x_Symbol] \rightarrow \text{Simp}[(2/(a^{3/4})*\text{Rt}[b/a, 2])*\text{EllipticF}[(1/2)*\text{ArcTan}[\text{Rt}[b/a, 2]*x], 2], x] /; \text{FreeQ}\{a, b\}, x] \ \&\& \ \text{GtQ}[a, 0] \ \&\& \ \text{PosQ}[b/a]$
230. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-3/4}, x_Symbol] \rightarrow \text{Simp}[(2/(a^{3/4})*\text{Rt}[-b/a, 2])*\text{EllipticF}[(1/2)*\text{ArcSin}[\text{Rt}[-b/a, 2]*x], 2], x] /; \text{FreeQ}\{a, b\}, x] \ \&\& \ \text{GtQ}[a, 0] \ \&\& \ \text{NegQ}[b/a]$
231. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-3/4}, x_Symbol] \rightarrow \text{Simp}[(1 + b*(x^2/a))^{3/4}/(a + b*x^2)^{3/4} \text{ Int}[1/(1 + b*(x^2/a))^{3/4}, x], x] /; \text{FreeQ}\{a, b\}, x] \ \&\& \ \text{PosQ}[a]$
232. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-3/4}, x_Symbol] \rightarrow \text{Simp}[2*(\text{Sqrt}[(-b)*(x^2/a)]/(b*x)) \text{ Subst}[\text{Int}[1/\text{Sqrt}[1 - x^4/a], x], x, (a + b*x^2)^{1/4}], x] /; \text{FreeQ}\{a, b\}, x] \ \&\& \ \text{NegQ}[a]$
233. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-1/3}, x_Symbol] \rightarrow \text{Simp}[3*(\text{Sqrt}[b*x^2]/(2*b*x)) \text{ Subst}[\text{Int}[x/\text{Sqrt}[-a + x^3], x], x, (a + b*x^2)^{1/3}], x] /; \text{FreeQ}\{a, b\}, x]$
234. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-2/3}, x_Symbol] \rightarrow \text{Simp}[3*(\text{Sqrt}[b*x^2]/(2*b*x)) \text{ Subst}[\text{Int}[1/\text{Sqrt}[-a + x^3], x], x, (a + b*x^2)^{1/3}], x] /; \text{FreeQ}\{a, b\}, x]$
235. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-1/6}, x_Symbol] \rightarrow \text{Simp}[3*(x/(2*(a + b*x^2)^{1/6}))], x] - \text{Simp}[a/2 \text{ Int}[1/(a + b*x^2)^{7/6}, x], x] /; \text{FreeQ}\{a, b\}, x]$
236. $\text{Int}[(a_ + (b_ \cdot)(x_)^2)^{-5/6}, x_Symbol] \rightarrow \text{Simp}[1/((a/(a + b*x^2))^{1/3}*(a + b*x^2)^{1/3}) \text{ Subst}[\text{Int}[1/(1 - b*x^2)^{2/3}, x], x, x/\text{Sqrt}[a + b*x^2]], x] /; \text{FreeQ}\{a, b\}, x]$

237. $\text{Int}[(a_) + (b_)*(x_)^2]^{(p_)} , x_Symbol] \rightarrow \text{Simp}[a^p x \text{Hypergeometric} 2F1[-p, 1/2, 1/2 + 1, (-b)*(x^2/a)], x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{!IntegerQ}[2*p] \&\& \text{GtQ}[a, 0]$
238. $\text{Int}[(a_) + (b_)*(x_)^2]^{(p_)} , x_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]} * ((a + b * x^2)^{\text{FracPart}[p]} / (1 + b*(x^2/a))^{\text{FracPart}[p]}) \text{Int}[(1 + b*(x^2/a))^p , x], x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{!IntegerQ}[2*p] \&\& \text{!GtQ}[a, 0]$
239. $\text{Int}[(a_.) + (b_.)*(v_)^{(n_.)}]^{(p_.)} , x_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[v, x, 1] \text{Subst}[\text{Int}[(a + b*x^n)^p, x], x, v], x] /; \text{FreeQ}\{a, b, n, p\}, x] \&\& \text{LinearQ}[v, x] \&\& \text{NeQ}[v, x]$
240. $\text{Int}[(x_)/((a_) + (b_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[\text{Log}[\text{RemoveContent}[a + b*x^2, x]]/(2*b), x] /; \text{FreeQ}\{a, b\}, x]$
241. $\text{Int}[(x_)*((a_) + (b_.)*(x_)^2)^{(p_.)} , x_Symbol] \rightarrow \text{Simp}[(a + b*x^2)^{(p + 1)}/(2*b*(p + 1)), x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{NeQ}[p, -1]$
242. $\text{Int}[(c_.)*(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_.)} , x_Symbol] \rightarrow \text{Simp}[(c*x)^{(m + 1)}*((a + b*x^2)^{(p + 1)}/(a*c*(m + 1))), x] /; \text{FreeQ}\{a, b, c, m, p\}, x] \&\& \text{EqQ}[m + 2*p + 3, 0] \&\& \text{NeQ}[m, -1]$
243. $\text{Int}[(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_.)} , x_Symbol] \rightarrow \text{Simp}[1/2 \text{Subst}[\text{Int}[x^{(m - 1)/2}*(a + b*x)^p, x], x, x^2], x] /; \text{FreeQ}\{a, b, m, p\}, x] \&\& \text{IntegerQ}[(m - 1)/2]$
244. $\text{Int}[(c_.)*(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_.)} , x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(c*x)^m*(a + b*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, m\}, x] \&\& \text{IGtQ}[p, 0]$
245. $\text{Int}[(x_)^{(m_)}*((a_) + (b_.)*(x_)^2)^{(p_.)} , x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*((a + b*x^2)^{(p + 1)}/(a*(m + 1))), x] - \text{Simp}[b*((m + 2*(p + 1) + 1)/(a*(m + 1))) \text{Int}[x^{(m + 2)}*(a + b*x^2)^p, x], x] /; \text{FreeQ}\{a, b, m, p\}, x] \&\& \text{ILtQ}[\text{Simplify}[(m + 1)/2 + p + 1], 0] \&\& \text{NeQ}[m, -1]$

246. $\text{Int}[(c \cdot x)^m \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[-(c \cdot x)^{m+1} \cdot (a + b \cdot x^2)^{p+1} / (a \cdot c \cdot 2 \cdot (p+1)), x] + \text{Simp}[(m+2 \cdot p+3) / (a \cdot 2 \cdot (p+1)) \text{Int}[(c \cdot x)^m \cdot (a + b \cdot x^2)^{p+1}, x], x] /;$ $\text{FreeQ}\{a, b, c, m, p\}, x \ \&\& \ \text{ILtQ}[\text{Simplify}[(m+1)/2 + p + 1], 0] \ \&\& \ \text{NeQ}[p, -1]$
247. $\text{Int}[(c \cdot x)^m \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(c \cdot x)^{m+1} \cdot (a + b \cdot x^2)^p / (c \cdot (m+1)), x] - \text{Simp}[2 \cdot b \cdot p / (c^2 \cdot (m+1)) \text{Int}[(c \cdot x)^{m+2} \cdot (a + b \cdot x^2)^{p-1}, x], x] /;$ $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{!ILtQ}[(m+2 \cdot p+3)/2, 0] \ \&\& \ \text{IntBinomialQ}[a, b, c, 2, m, p, x]$
248. $\text{Int}[(c \cdot x)^m \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(c \cdot x)^{m+1} \cdot (a + b \cdot x^2)^p / (c \cdot (m+2 \cdot p+1)), x] + \text{Simp}[2 \cdot a \cdot p / (m+2 \cdot p+1) \text{Int}[(c \cdot x)^m \cdot (a + b \cdot x^2)^{p-1}, x], x] /;$ $\text{FreeQ}\{a, b, c, m\}, x \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{NeQ}[m+2 \cdot p+1, 0] \ \&\& \ \text{IntBinomialQ}[a, b, c, 2, m, p, x]$
249. $\text{Int}[\text{Sqrt}[c \cdot x] / ((a + b \cdot x^2)^{5/4}), x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Sqrt}[c \cdot x] \cdot ((1 + a / (b \cdot x^2))^{1/4} / (b \cdot (a + b \cdot x^2)^{1/4})) \text{Int}[1 / (x^2 \cdot (1 + a / (b \cdot x^2))^{5/4}), x], x] /;$ $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{PosQ}[b/a]$
250. $\text{Int}[(c \cdot x)^m / ((a + b \cdot x^2)^{5/4}), x_{\text{Symbol}}] \rightarrow \text{Simp}[2 \cdot c \cdot ((c \cdot x)^{m-1} / (b \cdot (2 \cdot m-3) \cdot (a + b \cdot x^2)^{1/4})), x] - \text{Simp}[2 \cdot a \cdot c^2 \cdot ((m-1) / (b \cdot (2 \cdot m-3))) \text{Int}[(c \cdot x)^{m-2} / (a + b \cdot x^2)^{5/4}, x], x] /;$ $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{PosQ}[b/a] \ \&\& \ \text{IntegerQ}[2 \cdot m] \ \&\& \ \text{GtQ}[m, 3/2]$
251. $\text{Int}[(c \cdot x)^m / ((a + b \cdot x^2)^{5/4}), x_{\text{Symbol}}] \rightarrow \text{Simp}[(c \cdot x)^{m+1} / (a \cdot c \cdot (m+1) \cdot (a + b \cdot x^2)^{1/4}), x] - \text{Simp}[b \cdot ((2 \cdot m+1) / (2 \cdot a \cdot c^2 \cdot (m+1))) \text{Int}[(c \cdot x)^{m+2} / (a + b \cdot x^2)^{5/4}, x], x] /;$ $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{PosQ}[b/a] \ \&\& \ \text{IntegerQ}[2 \cdot m] \ \&\& \ \text{LtQ}[m, -1]$
252. $\text{Int}[(c \cdot x)^m \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[c \cdot (c \cdot x)^{m-1} \cdot (a + b \cdot x^2)^{p+1} / (2 \cdot b \cdot (p+1)), x] - \text{Simp}[c^2 \cdot ((m-1) / (2 \cdot b \cdot (p+1))) \text{Int}[(c \cdot x)^{m-2} \cdot (a + b \cdot x^2)^{p+1}, x], x] /;$ $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[m, 1] \ \&\& \ \text{!ILtQ}[m+2 \cdot p+3$

)/2, 0] && IntBinomialQ[a, b, c, 2, m, p, x]

253. Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Simp[(-
 (c*x)^(m + 1))*((a + b*x^2)^(p + 1)/(2*a*c*(p + 1))), x] + Simp[(m +
 2*p + 3)/(2*a*(p + 1)) Int[(c*x)^m*(a + b*x^2)^(p + 1), x], x] /; Fr
 eeQ[{a, b, c, m}, x] && LtQ[p, -1] && IntBinomialQ[a, b, c, 2, m, p, x
]

254. Int[(x_)^(m_)/((a_) + (b_)*(x_)^2), x_Symbol] := Int[PolynomialDivide
 [x^m, a + b*x^2, x], x] /; FreeQ[{a, b}, x] && IGtQ[m, 3]

255. Int[Sqrt[(c_)*(x_)]/((a_) + (b_)*(x_)^2)^(1/4), x_Symbol] := Simp[x*(
 Sqrt[c*x]/(a + b*x^2)^(1/4)), x] - Simp[a/2 Int[Sqrt[c*x]/(a + b*x^2
)^(5/4), x], x] /; FreeQ[{a, b, c}, x] && PosQ[b/a]

256. Int[Sqrt[(c_)*(x_)]/((a_) + (b_)*(x_)^2)^(1/4), x_Symbol] := Simp[c*(
 (a + b*x^2)^(3/4)/(b*Sqrt[c*x])), x] + Simp[a*(c^2/(2*b)) Int[1/((c*
 x)^(3/2)*(a + b*x^2)^(1/4)), x], x] /; FreeQ[{a, b, c}, x] && NegQ[b/a
]

257. Int[1/(((c_)*(x_))^(3/2)*((a_) + (b_)*(x_)^2)^(1/4)), x_Symbol] := S
 imp[-2/(c*Sqrt[c*x]*(a + b*x^2)^(1/4)), x] - Simp[b/c^2 Int[Sqrt[c*x
]/(a + b*x^2)^(5/4), x], x] /; FreeQ[{a, b, c}, x] && PosQ[b/a]

258. Int[1/(((c_)*(x_))^(3/2)*((a_) + (b_)*(x_)^2)^(1/4)), x_Symbol] := S
 imp[Sqrt[c*x]*((1 + a/(b*x^2))^(1/4)/(c^2*(a + b*x^2)^(1/4))), x] Int[1/
 (x^2*(1 + a/(b*x^2))^(1/4)), x], x] /; FreeQ[{a, b, c}, x] && NegQ[b/a
]

259. Int[Sqrt[x_]/Sqrt[(a_) + (b_)*(x_)^2], x_Symbol] := Simp[-2/(Sqrt[a]*
 (-b/a)^(3/4)) Subst[Int[Sqrt[1 - 2*x^2]/Sqrt[1 - x^2], x], x, Sqrt[1
 - Sqrt[-b/a]*x]/Sqrt[2]], x] /; FreeQ[{a, b}, x] && GtQ[-b/a, 0] && G
 tQ[a, 0]

260. Int[Sqrt[x_]/Sqrt[(a_) + (b_)*(x_)^2], x_Symbol] := Simp[Sqrt[1 + b*(
 x^2/a)]/Sqrt[a + b*x^2] Int[Sqrt[x]/Sqrt[1 + b*(x^2/a)], x], x] /; F

```
reeQ[{a, b}, x] && GtQ[-b/a, 0] && !GtQ[a, 0]
```

```
261. Int[Sqrt[(c_)*(x_)]/Sqrt[(a_) + (b_.)*(x_)^2], x_Symbol] := Simp[Sqrt[
c*x]/Sqrt[x] Int[Sqrt[x]/Sqrt[a + b*x^2], x], x] /; FreeQ[{a, b, c},
x] && GtQ[-b/a, 0]
```

```
262. Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Simp[c*
(c*x)^(m - 1)*((a + b*x^2)^(p + 1)/(b*(m + 2*p + 1))), x] - Simp[a*c^2
*((m - 1)/(b*(m + 2*p + 1))) Int[(c*x)^(m - 2)*(a + b*x^2)^p, x], x]
/; FreeQ[{a, b, c, p}, x] && GtQ[m, 2 - 1] && NeQ[m + 2*p + 1, 0] &&
IntBinomialQ[a, b, c, 2, m, p, x]
```

```
263. Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Simp[c*
(c*x)^(m - 1)*((a + b*x^2)^(p + 1)/(b*(m + 2*p + 1))), x] - Simp[a*c^2
*((m - 1)/(b*(m + 2*p + 1))) Int[(c*x)^(m - 2)*(a + b*x^2)^p, x], x]
/; FreeQ[{a, b, c, m, p}, x] && SumSimplerQ[m, -2] && NeQ[m + 2*p + 1
, 0] && ILtQ[Simplify[(m + 1)/2 + p], 0]
```

```
264. Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Simp[(c
*x)^(m + 1)*((a + b*x^2)^(p + 1)/(a*c*(m + 1))), x] - Simp[b*((m + 2*p
+ 3)/(a*c^2*(m + 1))) Int[(c*x)^(m + 2)*(a + b*x^2)^p, x], x] /; Fr
eeQ[{a, b, c, p}, x] && LtQ[m, -1] && IntBinomialQ[a, b, c, 2, m, p, x
]
```

```
265. Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Simp[(c
*x)^(m + 1)*((a + b*x^2)^(p + 1)/(a*c*(m + 1))), x] - Simp[b*((m + 2*p
+ 3)/(a*c^2*(m + 1))) Int[(c*x)^(m + 2)*(a + b*x^2)^p, x], x] /; Fr
eeQ[{a, b, c, m, p}, x] && SumSimplerQ[m, 2] && ILtQ[Simplify[(m + 1)/
2 + p], 0]
```

```
266. Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := With[{k
= Denominator[m]}, Simp[k/c Subst[Int[x^(k*(m + 1) - 1)*(a + b*(x^(
2*k)/c^2))^p, x], x, (c*x)^(1/k)], x]] /; FreeQ[{a, b, c, p}, x] && Fr
actionQ[m] && IntBinomialQ[a, b, c, 2, m, p, x]
```

267. $\text{Int}[(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[a^{(p + (m + 1)/2)} \text{Subst}[\text{Int}[x^m/(1 - b*x^2)^{(p + (m + 1)/2 + 1)}, x], x, x/(a + b*x^2)^{(1/2)}], x] /; \text{FreeQ}\{a, b\}, x] \&\& \text{LtQ}[-1, p, 0] \&\& \text{NeQ}[p, -2^{(-1)}] \&\& \text{IntegersQ}[m, p + (m + 1)/2]$
268. $\text{Int}[(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(a/(a + b*x^2))^{(p + (m + 1)/2)}*(a + b*x^2)^{(p + (m + 1)/2)} \text{Subst}[\text{Int}[x^m/(1 - b*x^2)^{(p + (m + 1)/2 + 1)}, x], x, x/(a + b*x^2)^{(1/2)}], x] /; \text{FreeQ}\{a, b\}, x] \&\& \text{LtQ}[-1, p, 0] \&\& \text{NeQ}[p, -2^{(-1)}] \&\& \text{IntegerQ}[m] \&\& \text{LtQ}[\text{Denominator}[p + (m + 1)/2], \text{Denominator}[p]]$
269. $\text{Int}[(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*((a + b*x^2)^{p/(m + 1)}), x] - \text{Simp}[2*b*(p/(m + 1)) \text{Int}[x^{(m + 2)}*(a + b*x^2)^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, m\}, x] \&\& \text{EqQ}[(m + 1)/2 + p, 0] \&\& \text{GtQ}[p, 0]$
270. $\text{Int}[(c_)*(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[m]}*((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, m\}, x] \&\& \text{EqQ}[(m + 1)/2 + p, 0] \&\& \text{GtQ}[p, 0]$
271. $\text{Int}[(c_)*(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(c*x)^{(m + 1)}*((a + b*x^2)^{p/(c*(m + 2*p + 1))}), x] + \text{Simp}[2*a*(p/(m + 2*p + 1)) \text{Int}[(c*x)^m*(a + b*x^2)^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, c, m\}, x] \&\& \text{IntegerQ}[p + \text{Simplify}[(m + 1)/2]] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[m + 2*p + 1, 0]$
272. $\text{Int}[(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[p]\}, \text{Simp}[k*(a^{(p + \text{Simplify}[(m + 1)/2])/2}) \text{Subst}[\text{Int}[x^{(k*\text{Simplify}[(m + 1)/2] - 1)}(1 - b*x^k)^{(p + \text{Simplify}[(m + 1)/2] + 1)}, x], x, x^{(2/k)}/(a + b*x^2)^{(1/k)}], x] /; \text{FreeQ}\{a, b, m\}, x] \&\& \text{IntegerQ}[p + \text{Simplify}[(m + 1)/2]] \&\& \text{LtQ}[-1, p, 0]$
273. $\text{Int}[(c_)*(x_)^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[m]}*((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, m\}, x] \&\& \text{IntegerQ}[p + \text{Simplify}[(m + 1)/2]] \&\& \text{LtQ}[-1, p, 0]$

274. $\text{Int}[(c \cdot x)^m \cdot ((a) + (b) \cdot x^2)^p, x_Symbol] \rightarrow \text{Simp}[(c \cdot x)^{m+1} \cdot ((a) + (b) \cdot x^2)^{p+1} / (a \cdot c \cdot 2 \cdot (p+1)), x] + \text{Simp}[(m+2 \cdot (p+1) + 1) / (a \cdot 2 \cdot (p+1)) \text{Int}[(c \cdot x)^m \cdot ((a) + (b) \cdot x^2)^{p+1}, x], x] /;$ $\text{FreeQ}\{a, b, c, m\}, x \ \&\& \ \text{IntegerQ}[p + \text{Simplify}[(m+1)/2]] \ \&\& \ \text{LtQ}[p, -1]$
275. $\text{Int}[x^m / ((a) + (b) \cdot x^2), x_Symbol] \rightarrow \text{Simp}[x^{m-1} / (b \cdot (m-1)), x] - \text{Simp}[a/b \text{Int}[x^{m-2} / (a + b \cdot x^2), x], x] /;$ $\text{FreeQ}\{a, b, m\}, x \ \&\& \ \text{FractionQ}[(m+1)/2] \ \&\& \ \text{SumSimplerQ}[m, -2]$
276. $\text{Int}[x^m / ((a) + (b) \cdot x^2), x_Symbol] \rightarrow \text{Simp}[x^{m+1} / (a \cdot (m+1)), x] - \text{Simp}[b/a \text{Int}[x^{\text{Simplify}[m+2]} / (a + b \cdot x^2), x], x] /;$ $\text{FreeQ}\{a, b, m\}, x \ \&\& \ \text{FractionQ}[(m+1)/2] \ \&\& \ \text{SumSimplerQ}[m, 2]$
277. $\text{Int}[(c \cdot x)^m / ((a) + (b) \cdot x^2), x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[m]} \cdot ((c \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m / (a + b \cdot x^2), x], x] /;$ $\text{FreeQ}\{a, b, c, m\}, x \ \&\& \ \text{FractionQ}[(m+1)/2] \ \&\& \ (\text{SumSimplerQ}[m, 2] \ || \ \text{SumSimplerQ}[m, -2])$
278. $\text{Int}[(c \cdot x)^m \cdot ((a) + (b) \cdot x^2)^p, x_Symbol] \rightarrow \text{Simp}[a^p \cdot ((c \cdot x)^{m+1} / (c \cdot (m+1))) \cdot \text{Hypergeometric2F1}[-p, (m+1)/2, (m+1)/2 + 1, (-b) \cdot (x^2/a)], x] /;$ $\text{FreeQ}\{a, b, c, m, p\}, x \ \&\& \ !\text{IGtQ}[p, 0] \ \&\& \ (\text{ILtQ}[p, 0] \ || \ \text{GtQ}[a, 0])$
279. $\text{Int}[(c \cdot x)^m \cdot ((a) + (b) \cdot x^2)^p, x_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]} \cdot ((a + b \cdot x^2)^{\text{FracPart}[p]} / (1 + b \cdot (x^2/a))^{\text{FracPart}[p]}) \text{Int}[(c \cdot x)^m \cdot (1 + b \cdot (x^2/a))^p, x], x] /;$ $\text{FreeQ}\{a, b, c, m, p\}, x \ \&\& \ !\text{IGtQ}[p, 0] \ \&\& \ !(\text{ILtQ}[p, 0] \ || \ \text{GtQ}[a, 0])$
280. $\text{Int}[(u) \cdot ((b) \cdot x^n)^p \cdot ((d) \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[b^{\text{IntPart}[p]} \cdot d^{\text{IntPart}[q]} \cdot (b \cdot x^n)^{\text{FracPart}[p]} \cdot ((d \cdot x^n)^{\text{FracPart}[q]} / x^{n \cdot (\text{FracPart}[p] + \text{FracPart}[q])}) \text{Int}[u \cdot x^{n \cdot (p+q)}, x], x] /;$ $\text{FreeQ}\{b, d, n, p, q\}, x]$
281. $\text{Int}[(u) \cdot ((a) + (b) \cdot x^n)^p \cdot ((c) + (d) \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[(b/d)^p \text{Int}[u \cdot (c + d \cdot x^n)^{p+q}, x], x] /;$ Fr

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eeQ[{a, b, c, d, n, p, q}, x] && EqQ[b*c - a*d, 0] && IntegerQ[p] &&
!(IntegerQ[q] && SimplifierQ[a + b*x^n, c + d*x^n])

282. Int[(u_.)*((a_) + (b_.)*(x_)^(n_))^(p_)*((c_) + (d_.)*(x_)^(n_))^(q_),
 x_Symbol] :> Simp[(b/d)^p Int[u*(c + d*x^n)^(p + q), x], x] /; Free
Q[{a, b, c, d, n, p, q}, x] && EqQ[b*c - a*d, 0] && GtQ[b/d, 0] && !S
implerQ[a + b*x^n, c + d*x^n]

283. Int[(u_.)*((a_) + (b_.)*(x_)^(n_))^(p_)*((c_) + (d_.)*(x_)^(n_))^(q_),
 x_Symbol] :> Simp[(a + b*x^n)^p/(c + d*x^n)^p Int[u*(c + d*x^n)^(p
+ q), x], x] /; FreeQ[{a, b, c, d, n, p, q}, x] && EqQ[b*c - a*d, 0] &
& !SimplerQ[a + b*x^n, c + d*x^n]

284. Int[((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol]
 :> Int[(a*c + b*d*x^4)^p, x] /; FreeQ[{a, b, c, d, p}, x] && EqQ[b*c
+ a*d, 0] && (IntegerQ[p] || (GtQ[a, 0] && GtQ[c, 0]))

285. Int[((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] :
 > Simp[x*(a + b*x^2)^p*((c + d*x^2)^p/(4*p + 1)), x] + Simp[4*a*c*(p/(
4*p + 1)) Int[(a + b*x^2)^(p - 1)*(c + d*x^2)^(p - 1), x], x] /; Fre
eQ[{a, b, c, d}, x] && EqQ[b*c + a*d, 0] && GtQ[p, 0]

286. Int[((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] :
 > Simp[(-x)*(a + b*x^2)^(p + 1)*((c + d*x^2)^(p + 1)/(4*a*c*(p + 1))),
 x] + Simp[(4*p + 5)/(4*a*c*(p + 1)) Int[(a + b*x^2)^(p + 1)*(c + d*
x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c + a*d, 0] &&
LtQ[p, -1]

287. Int[1/(Sqrt[(a_) + (b_.)*(x_)^2]*Sqrt[(c_) + (d_.)*(x_)^2]), x_Symbol]
 :> Simp[(1/Sqrt[2*a*d])*EllipticF[ArcSin[Sqrt[2*d]*(x/Sqrt[c + d*x^2])
], 1/2], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c + a*d, 0] && GtQ[a,
0] && GtQ[d, 0]

288. Int[((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] :
 > Simp[(c + d*x^2)^FracPart[p]/((-1)^IntPart[p]*(-c - d*x^2)^FracPart[
p]) Int[((-a)*c - b*d*x^4)^p, x], x] /; FreeQ[{a, b, c, d, p}, x] &&

```



EqQ[b\*c + a\*d, 0] && GtQ[a, 0] && LtQ[c, 0]

289.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}), x\_Symbol] :$   
 $> \text{Simp}[(a + b*x^2)^{\text{FracPart}[p]}((c + d*x^2)^{\text{FracPart}[p]}/(a*c + b*d*x^4)^{\text{FracPart}[p]}) \text{Int}[(a*c + b*d*x^4)^p, x], x] /;$  FreeQ[{a, b, c, d, p}, x] && EqQ[b\*c + a\*d, 0] && !IntegerQ[p]
290.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}), x\_Symbol] :$   
 $> \text{Int}[\text{ExpandIntegrand}[(a + b*x^2)^p(c + d*x^2)^q, x], x] /;$  FreeQ[{a, b, c, d}, x] && NeQ[b\*c - a\*d, 0] && IGtQ[p, 0] && IGtQ[q, 0]
291.  $\text{Int}[1/(\text{Sqrt}[(a_+ + (b_+)(x_+)^2]*((c_+ + (d_+)(x_+)^2))), x\_Symbol] >$   
 $\text{Subst}[\text{Int}[1/(c - (b*c - a*d)*x^2), x], x, x/\text{Sqrt}[a + b*x^2]] /;$  FreeQ[{a, b, c, d}, x] && NeQ[b\*c - a\*d, 0]
292.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}), x\_Symbol] :$   
 $> \text{Simp}[(-x)*(a + b*x^2)^{p+1}((c + d*x^2)^q/(2*a*(p+1))), x] - \text{Simp}[c*(q/(a*(p+1))) \text{Int}[(a + b*x^2)^{p+1}*(c + d*x^2)^{q-1}, x], x] /;$  FreeQ[{a, b, c, d, p}, x] && NeQ[b\*c - a\*d, 0] && EqQ[2\*(p + q + 1) + 1, 0] && GtQ[q, 0] && NeQ[p, -1]
293.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}), x\_Symbol] :$   
 $> \text{Simp}[a^p*(x/(c^{p+1}*\text{Sqrt}[c + d*x^2]))*\text{Hypergeometric2F1}[1/2, -p, 3/2, (-b*c - a*d)*(x^2/(a*(c + d*x^2)))]], x] /;$  FreeQ[{a, b, c, d, q}, x] && NeQ[b\*c - a\*d, 0] && EqQ[2\*(p + q + 1) + 1, 0] && ILtQ[p, 0]
294.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}), x\_Symbol] :$   
 $> \text{Simp}[x*((a + b*x^2)^p/(c*(c*((a + b*x^2)/(a*(c + d*x^2))))^p*(c + d*x^2)^{(1/2 + p)})*\text{Hypergeometric2F1}[1/2, -p, 3/2, (-b*c - a*d)*(x^2/(a*(c + d*x^2)))]], x] /;$  FreeQ[{a, b, c, d, p, q}, x] && NeQ[b\*c - a\*d, 0] && EqQ[2\*(p + q + 1) + 1, 0]
295.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}), x\_Symbol] :$   
 $> \text{Simp}[x*(a + b*x^2)^{p+1}((c + d*x^2)^{q+1}/(a*c)), x] /;$  FreeQ[{a, b, c, d, p, q}, x] && NeQ[b\*c - a\*d, 0] && EqQ[2\*(p + q + 2) + 1, 0] && EqQ[a\*d\*(p + 1) + b\*c\*(q + 1), 0]

296.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}), x\_Symbol] :$   
 $> \text{Simp}[(-b) * x * (a + b * x^2)^{p + 1} * ((c + d * x^2)^{q + 1} / (2 * a * (p + 1) * (b * c - a * d))), x] + \text{Simp}[(b * c + 2 * (p + 1) * (b * c - a * d)) / (2 * a * (p + 1) * (b * c - a * d)) \text{Int}[(a + b * x^2)^{p + 1} * (c + d * x^2)^q, x], x] /;$   $\text{FreeQ}\{a, b, c, d, q\}, x\} \ \&\& \ \text{NeQ}[b * c - a * d, 0] \ \&\& \ \text{EqQ}[2 * (p + q + 2) + 1, 0] \ \&\& \ (\text{LtQ}[p, -1] \ || \ !\text{LtQ}[q, -1]) \ \&\& \ \text{NeQ}[p, -1]$
297.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2), x\_Symbol] :> \text{Simp}[c * x * (a + b * x^2)^{p + 1} / a, x] /;$   $\text{FreeQ}\{a, b, c, d, p\}, x\} \ \&\& \ \text{NeQ}[b * c - a * d, 0] \ \&\& \ \text{EqQ}[a * d - b * c * (2 * p + 3), 0]$
298.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2), x\_Symbol] :> \text{Simp}[(-b * c - a * d) * x * ((a + b * x^2)^{p + 1} / (2 * a * b * (p + 1))), x] - \text{Simp}[(a * d - b * c * (2 * p + 3)) / (2 * a * b * (p + 1)) \text{Int}[(a + b * x^2)^{p + 1}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, p\}, x\} \ \&\& \ \text{NeQ}[b * c - a * d, 0] \ \&\& \ (\text{LtQ}[p, -1] \ || \ \text{ILtQ}[1/2 + p, 0])$
299.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2), x\_Symbol] :> \text{Simp}[d * x * ((a + b * x^2)^{p + 1} / (b * (2 * p + 3))), x] - \text{Simp}[(a * d - b * c * (2 * p + 3)) / (b * (2 * p + 3)) \text{Int}[(a + b * x^2)^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{NeQ}[b * c - a * d, 0] \ \&\& \ \text{NeQ}[2 * p + 3, 0]$
300.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}), x\_Symbol] :$   
 $> \text{Int}[\text{PolynomialDivide}[(a + b * x^2)^p, (c + d * x^2)^{-q}, x], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{NeQ}[b * c - a * d, 0] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{ILtQ}[q, 0] \ \&\& \ \text{GeQ}[p, -q]$
301.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+} / ((c_+ + (d_+)(x_+)^2), x\_Symbol] :> \text{Simp}[b / d \ \text{Int}[(a + b * x^2)^{p - 1}, x], x] - \text{Simp}[(b * c - a * d) / d \ \text{Int}[(a + b * x^2)^{p - 1} / (c + d * x^2), x], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{NeQ}[b * c - a * d, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ (\text{EqQ}[p, 1/2] \ || \ \text{EqQ}[\text{Denominator}[p], 4] \ || \ (\text{EqQ}[p, 2/3] \ \&\& \ \text{EqQ}[b * c + 3 * a * d, 0]))$
302.  $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+} / ((c_+ + (d_+)(x_+)^2), x\_Symbol] :> \text{Simp}[b / (b * c - a * d) \ \text{Int}[(a + b * x^2)^p, x], x] - \text{Simp}[d / (b * c - a * d) \ \text{Int}$

```
[(a + b*x^2)^(p + 1)/(c + d*x^2), x], x] /; FreeQ[{a, b, c, d}, x] &&
NeQ[b*c - a*d, 0] && LtQ[p, -1] && EqQ[Denominator[p], 4] && (EqQ[p, -
5/4] || EqQ[p, -7/4])
```

```
303. Int[1/(((a_) + (b_.)*(x_)^2)*((c_) + (d_.)*(x_)^2)), x_Symbol] := Simp
[b/(b*c - a*d) Int[1/(a + b*x^2), x], x] - Simp[d/(b*c - a*d) Int[
1/(c + d*x^2), x], x] /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0]
```

```
304. Int[1/(((a_) + (b_.)*(x_)^2)^(1/3)*((c_) + (d_.)*(x_)^2)), x_Symbol] :
> With[{q = Rt[b/a, 2]}, Simp[q*(ArcTanh[Sqrt[3]/(q*x)]/(2*2^(2/3)*Sqr
t[3]*a^(1/3)*d)), x] + (-Simp[q*(ArcTan[(a^(1/3)*q*x)/(a^(1/3) + 2^(1/
3)*(a + b*x^2)^(1/3))]/(2*2^(2/3)*a^(1/3)*d)), x] + Simp[q*(ArcTan[q*x
]/(6*2^(2/3)*a^(1/3)*d)), x] + Simp[q*(ArcTanh[Sqrt[3]*((a^(1/3) - 2^(
1/3)*(a + b*x^2)^(1/3))/(a^(1/3)*q*x)]/(2*2^(2/3)*Sqrt[3]*a^(1/3)*d))
, x]]) /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[b*c + 3*a
*d, 0] && PosQ[b/a]
```

```
305. Int[1/(((a_) + (b_.)*(x_)^2)^(1/3)*((c_) + (d_.)*(x_)^2)), x_Symbol] :
> With[{q = Rt[-b/a, 2]}, Simp[q*(ArcTan[Sqrt[3]/(q*x)]/(2*2^(2/3)*Sqr
t[3]*a^(1/3)*d)), x] + (Simp[q*(ArcTanh[(a^(1/3)*q*x)/(a^(1/3) + 2^(1/
3)*(a + b*x^2)^(1/3))]/(2*2^(2/3)*a^(1/3)*d)), x] - Simp[q*(ArcTanh[q*
x]/(6*2^(2/3)*a^(1/3)*d)), x] + Simp[q*(ArcTan[Sqrt[3]*((a^(1/3) - 2^(
1/3)*(a + b*x^2)^(1/3))/(a^(1/3)*q*x)]/(2*2^(2/3)*Sqrt[3]*a^(1/3)*d))
, x]]) /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[b*c + 3*a
*d, 0] && NegQ[b/a]
```

```
306. Int[1/(((a_) + (b_.)*(x_)^2)^(1/3)*((c_) + (d_.)*(x_)^2)), x_Symbol] :
> With[{q = Rt[b/a, 2]}, Simp[q*(ArcTan[q*(x/3)]/(12*Rt[a, 3]*d)), x]
+ (Simp[q*(ArcTan[(Rt[a, 3] - (a + b*x^2)^(1/3))^2/(3*Rt[a, 3]^2*q*x)]
/(12*Rt[a, 3]*d)), x] - Simp[q*(ArcTanh[(Sqrt[3]*(Rt[a, 3] - (a + b*x^
2)^(1/3))]/(Rt[a, 3]*q*x)]/(4*Sqrt[3]*Rt[a, 3]*d)), x]]) /; FreeQ[{a,
b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[b*c - 9*a*d, 0] && PosQ[b/a]
```

```
307. Int[1/(((a_) + (b_.)*(x_)^2)^(1/3)*((c_) + (d_.)*(x_)^2)), x_Symbol] :
> With[{q = Rt[-b/a, 2]}, Simp[(-q)*(ArcTanh[q*(x/3)]/(12*Rt[a, 3]*d))
, x] + (Simp[q*(ArcTanh[(Rt[a, 3] - (a + b*x^2)^(1/3))^2/(3*Rt[a, 3]^2
*q*x)]/(12*Rt[a, 3]*d)), x] - Simp[q*(ArcTan[(Sqrt[3]*(Rt[a, 3] - (a +
```

```

 b*x^2)^(1/3)))/(Rt[a, 3]*q*x)]/(4*Sqrt[3]*Rt[a, 3]*d)), x]] /; FreeQ
 [{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[b*c - 9*a*d, 0] && NegQ[
 b/a]

```

308. `Int[1/(((a_) + (b_.)*(x_)^2)^(1/4)*((c_) + (d_.)*(x_)^2)), x_Symbol] :`  
`> With[{q = Rt[b^2/a, 4]}, Simp[(-b/(2*a*d*q))*ArcTan[(b + q^2*Sqrt[a`  
`+ b*x^2])/(q^3*x*(a + b*x^2)^(1/4))], x] - Simp[(b/(2*a*d*q))*ArcTanh[`  
`(b - q^2*Sqrt[a + b*x^2])/(q^3*x*(a + b*x^2)^(1/4))], x]] /; FreeQ[{a,`  
`b, c, d}, x] && EqQ[b*c - 2*a*d, 0] && PosQ[b^2/a]`
309. `Int[1/(((a_) + (b_.)*(x_)^2)^(1/4)*((c_) + (d_.)*(x_)^2)), x_Symbol] :`  
`> With[{q = Rt[-b^2/a, 4]}, Simp[(b/(2*Sqrt[2]*a*d*q))*ArcTan[q*(x/(Sqr`  
`rt[2]*(a + b*x^2)^(1/4))], x] + Simp[(b/(2*Sqrt[2]*a*d*q))*ArcTanh[q*`  
`(x/(Sqrt[2]*(a + b*x^2)^(1/4))], x]] /; FreeQ[{a, b, c, d}, x] && EqQ`  
`[b*c - 2*a*d, 0] && NegQ[b^2/a]`
310. `Int[1/(((a_) + (b_.)*(x_)^2)^(1/4)*((c_) + (d_.)*(x_)^2)), x_Symbol] :`  
`> Simp[2*(Sqrt[(-b)*(x^2/a)]/x) Subst[Int[x^2/(Sqrt[1 - x^4/a]*(b*c`  
`- a*d + d*x^4)), x], x, (a + b*x^2)^(1/4)], x] /; FreeQ[{a, b, c, d},`  
`x] && NeQ[b*c - a*d, 0]`
311. `Int[1/(((a_) + (b_.)*(x_)^2)^(3/4)*((c_) + (d_.)*(x_)^2)), x_Symbol] :`  
`> Simp[1/c Int[1/(a + b*x^2)^(3/4), x], x] - Simp[d/c Int[x^2/((a`  
`+ b*x^2)^(3/4)*(c + d*x^2)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b`  
`*c - 2*a*d, 0]`
312. `Int[1/(((a_) + (b_.)*(x_)^2)^(3/4)*((c_) + (d_.)*(x_)^2)), x_Symbol] :`  
`> Simp[Sqrt[(-b)*(x^2/a)]/(2*x) Subst[Int[1/(Sqrt[(-b)*(x/a)]*(a + b`  
`*x)^(3/4)*(c + d*x)), x], x, x^2], x] /; FreeQ[{a, b, c, d}, x] && NeQ`  
`[b*c - a*d, 0]`
313. `Int[Sqrt[(a_) + (b_.)*(x_)^2]/((c_) + (d_.)*(x_)^2)^(3/2), x_Symbol] :`  
`> Simp[(Sqrt[a + b*x^2]/(c*Rt[d/c, 2]*Sqrt[c + d*x^2]*Sqrt[c*((a + b*x`  
`^2)/(a*(c + d*x^2))]))*EllipticE[ArcTan[Rt[d/c, 2]*x], 1 - b*(c/(a*d)`  
`)], x] /; FreeQ[{a, b, c, d}, x] && PosQ[b/a] && PosQ[d/c]`

314. `Int[((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] :`  
`> Simp[(-x)*(a + b*x^2)^(p + 1)*((c + d*x^2)^q/(2*a*(p + 1))), x] + Si`  
`mp[1/(2*a*(p + 1)) Int[(a + b*x^2)^(p + 1)*(c + d*x^2)^(q - 1)*Simp[`  
`c*(2*p + 3) + d*(2*(p + q + 1) + 1)*x^2, x], x], x] /; FreeQ[{a, b, c,`  
`d}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && LtQ[0, q, 1] && IntBinom`  
`ialQ[a, b, c, d, 2, p, q, x]`
315. `Int[((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] :`  
`> Simp[(a*d - c*b)*x*(a + b*x^2)^(p + 1)*((c + d*x^2)^(q - 1)/(2*a*b*(`  
`p + 1))), x] - Simp[1/(2*a*b*(p + 1)) Int[(a + b*x^2)^(p + 1)*(c + d`  
`*x^2)^(q - 2)*Simp[c*(a*d - c*b*(2*p + 3)) + d*(a*d*(2*(q - 1) + 1) -`  
`b*c*(2*(p + q) + 1))*x^2, x], x], x] /; FreeQ[{a, b, c, d}, x] && NeQ[`  
`b*c - a*d, 0] && LtQ[p, -1] && GtQ[q, 1] && IntBinomialQ[a, b, c, d, 2`  
`, p, q, x]`
316. `Int[((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] :`  
`> Simp[(-b)*x*(a + b*x^2)^(p + 1)*((c + d*x^2)^(q + 1)/(2*a*(p + 1)*(b`  
`*c - a*d))), x] + Simp[1/(2*a*(p + 1)*(b*c - a*d)) Int[(a + b*x^2)^(`  
`p + 1)*(c + d*x^2)^q*Simp[b*c + 2*(p + 1)*(b*c - a*d) + d*b*(2*(p + q`  
`+ 2) + 1)*x^2, x], x], x] /; FreeQ[{a, b, c, d, q}, x] && NeQ[b*c - a*`  
`d, 0] && LtQ[p, -1] && !(IntegerQ[p] && IntegerQ[q] && LtQ[q, -1])`  
`&& IntBinomialQ[a, b, c, d, 2, p, q, x]`
317. `Int[((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] :`  
`> Int[ExpandIntegrand[(a + b*x^2)^p*(c + d*x^2)^q, x], x] /; FreeQ[{a,`  
`b, c, d}, x] && NeQ[b*c - a*d, 0] && IntegersQ[p, q] && GtQ[p + q, 0]`
318. `Int[((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] :`  
`> Simp[d*x*(a + b*x^2)^(p + 1)*((c + d*x^2)^(q - 1)/(b*(2*(p + q) + 1)`  
`)), x] + Simp[1/(b*(2*(p + q) + 1)) Int[(a + b*x^2)^p*(c + d*x^2)^(q`  
`- 2)*Simp[c*(b*c*(2*(p + q) + 1) - a*d) + d*(b*c*(2*(p + 2*q - 1) + 1)`  
`- a*d*(2*(q - 1) + 1))*x^2, x], x], x] /; FreeQ[{a, b, c, d, p}, x]`  
`&& NeQ[b*c - a*d, 0] && GtQ[q, 1] && NeQ[2*(p + q) + 1, 0] && !IGtQ[p`  
`, 1] && IntBinomialQ[a, b, c, d, 2, p, q, x]`
319. `Int[((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] :`  
`> Simp[x*(a + b*x^2)^p*((c + d*x^2)^q/(2*(p + q) + 1)), x] + Simp[2/(2`

- $(p + q + 1) \int (a + b x^2)^{p-1} (c + d x^2)^{q-1} \text{Simp}[a c (p + q) + (q(b c - a d) + a d (p + q)) x^2, x], x] /;$ 
 $\text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[b c - a d, 0] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{IntBinomialQ}[a, b, c, d, 2, p, q, x]$
320.  $\text{Int}[1/(\text{Sqrt}[a_+ + (b_+)(x_+)^2] * \text{Sqrt}[(c_+) + (d_+)(x_+)^2]), x\_Symbol]$   
 $\text{:> Simp}[(\text{Sqrt}[a + b x^2] / (a \text{Rt}[d/c, 2] * \text{Sqrt}[c + d x^2] * \text{Sqrt}[c * ((a + b x^2) / (a * (c + d x^2)))])) * \text{EllipticF}[\text{ArcTan}[\text{Rt}[d/c, 2] * x], 1 - b * (c / (a * d))], x] /;$ 
 $\text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{PosQ}[d/c] \ \&\& \ \text{PosQ}[b/a] \ \&\& \ \text{SimplerSqrtQ}[b/a, d/c]$
321.  $\text{Int}[1/(\text{Sqrt}[a_+ + (b_+)(x_+)^2] * \text{Sqrt}[(c_+) + (d_+)(x_+)^2]), x\_Symbol]$   
 $\text{:> Simp}[(1 / (\text{Sqrt}[a] * \text{Sqrt}[c] * \text{Rt}[-d/c, 2])) * \text{EllipticF}[\text{ArcSin}[\text{Rt}[-d/c, 2] * x], b * (c / (a * d))], x] /;$ 
 $\text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{NegQ}[d/c] \ \&\& \ \text{GtQ}[c, 0] \ \&\& \ \text{GtQ}[a, 0] \ \&\& \ \text{!(NegQ}[b/a] \ \&\& \ \text{SimplerSqrtQ}[-b/a, -d/c])$
322.  $\text{Int}[1/(\text{Sqrt}[a_+ + (b_+)(x_+)^2] * \text{Sqrt}[(c_+) + (d_+)(x_+)^2]), x\_Symbol]$   
 $\text{:> Simp}[( - (\text{Sqrt}[c] * \text{Rt}[-d/c, 2] * \text{Sqrt}[a - b * (c/d)])^{(-1)} * \text{EllipticF}[\text{ArcCos}[\text{Rt}[-d/c, 2] * x], b * (c / (b * c - a * d))], x] /;$ 
 $\text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{NegQ}[d/c] \ \&\& \ \text{GtQ}[c, 0] \ \&\& \ \text{GtQ}[a - b * (c/d), 0]$
323.  $\text{Int}[1/(\text{Sqrt}[a_+ + (b_+)(x_+)^2] * \text{Sqrt}[(c_+) + (d_+)(x_+)^2]), x\_Symbol]$   
 $\text{:> Simp}[\text{Sqrt}[1 + (d/c) * x^2] / \text{Sqrt}[c + d * x^2] \ \text{Int}[1/(\text{Sqrt}[a + b * x^2] * \text{Sqrt}[1 + (d/c) * x^2]), x], x] /;$ 
 $\text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{!GtQ}[c, 0]$
324.  $\text{Int}[\text{Sqrt}[(a_+) + (b_+)(x_+)^2] / \text{Sqrt}[(c_+) + (d_+)(x_+)^2], x\_Symbol] \text{:>}$   
 $\text{Simp}[a \ \text{Int}[1/(\text{Sqrt}[a + b * x^2] * \text{Sqrt}[c + d * x^2]), x], x] + \text{Simp}[b \ \text{Int}[x^2 / (\text{Sqrt}[a + b * x^2] * \text{Sqrt}[c + d * x^2]), x], x] /;$ 
 $\text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{PosQ}[d/c] \ \&\& \ \text{PosQ}[b/a]$
325.  $\text{Int}[\text{Sqrt}[(a_+) + (b_+)(x_+)^2] / \text{Sqrt}[(c_+) + (d_+)(x_+)^2], x\_Symbol] \text{:>}$   
 $\text{Simp}[x * (\text{Sqrt}[a + b * x^2] / \text{Sqrt}[c + d * x^2]), x] + \text{Simp}[\text{Sqrt}[-2 * a] * (x / \text{Sqrt}[d * x^2]) * \text{EllipticE}[\text{ArcSin}[\text{Sqrt}[2 * c] / \text{Sqrt}[c + d * x^2]], 1/2], x] /;$ 
 $\text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{PosQ}[d/c] \ \&\& \ \text{EqQ}[b * c + a * d, 0] \ \&\& \ \text{LtQ}[a, 0] \ \&\& \ \text{GtQ}[c, 0]$

326.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2]/\text{Sqrt}[(c_) + (d_)*(x_)^2], x\_Symbol] \rightarrow$   
 $\text{Simp}[b/d \text{ Int}[\text{Sqrt}[c + d*x^2]/\text{Sqrt}[a + b*x^2], x], x] - \text{Simp}[(b*c - a$   
 $*d)/d \text{ Int}[1/(\text{Sqrt}[a + b*x^2]*\text{Sqrt}[c + d*x^2]), x], x] /; \text{FreeQ}[\{a, b,$   
 $c, d\}, x] \ \&\& \ \text{PosQ}[d/c] \ \&\& \ \text{NegQ}[b/a]$
327.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2]/\text{Sqrt}[(c_) + (d_)*(x_)^2], x\_Symbol] \rightarrow$   
 $\text{Simp}[(\text{Sqrt}[a]/(\text{Sqrt}[c]*\text{Rt}[-d/c, 2]))*\text{EllipticE}[\text{ArcSin}[\text{Rt}[-d/c, 2]*x],$   
 $b*(c/(a*d))], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NegQ}[d/c] \ \&\& \ \text{GtQ}[c, 0] \ \&$   
 $\& \ \text{GtQ}[a, 0]$
328.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2]/\text{Sqrt}[(c_) + (d_)*(x_)^2], x\_Symbol] \rightarrow$   
 $\text{Simp}[(-\text{Sqrt}[a - b*(c/d)]/(\text{Sqrt}[c]*\text{Rt}[-d/c, 2]))*\text{EllipticE}[\text{ArcCos}[\text{Rt}[-d$   
 $/c, 2]*x], b*(c/(b*c - a*d))], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NegQ}[d/$   
 $c] \ \&\& \ \text{GtQ}[c, 0] \ \&\& \ \text{GtQ}[a - b*(c/d), 0]$
329.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2]/\text{Sqrt}[(c_) + (d_)*(x_)^2], x\_Symbol] \rightarrow$   
 $\text{Simp}[a*(\text{Sqrt}[1 - b^2*(x^4/a^2)]/(\text{Sqrt}[a + b*x^2]*\text{Sqrt}[c + d*x^2])) \ \text{I}$   
 $\text{nt}[\text{Sqrt}[1 + b*(x^2/a)]/\text{Sqrt}[1 - b*(x^2/a)], x], x] /; \text{FreeQ}[\{a, b, c,$   
 $d\}, x] \ \&\& \ \text{EqQ}[b*c + a*d, 0] \ \&\& \ !(\text{LtQ}[a*c, 0] \ \&\& \ \text{GtQ}[a*b, 0])$
330.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2]/\text{Sqrt}[(c_) + (d_)*(x_)^2], x\_Symbol] \rightarrow$   
 $\text{Simp}[\text{Sqrt}[a + b*x^2]/\text{Sqrt}[1 + (b/a)*x^2] \ \text{Int}[\text{Sqrt}[1 + (b/a)*x^2]/\text{Sqr}$   
 $\text{t}[c + d*x^2], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NegQ}[d/c] \ \&\& \ \text{GtQ}[c,$   
 $0] \ \&\& \ !\text{GtQ}[a, 0]$
331.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2]/\text{Sqrt}[(c_) + (d_)*(x_)^2], x\_Symbol] \rightarrow$   
 $\text{Simp}[\text{Sqrt}[1 + (d/c)*x^2]/\text{Sqrt}[c + d*x^2] \ \text{Int}[\text{Sqrt}[a + b*x^2]/\text{Sqrt}[1$   
 $+ (d/c)*x^2], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NegQ}[d/c] \ \&\& \ !\text{GtQ}[c$   
 $, 0]$
332.  $\text{Int}[(a_) + (b_)*(x_)^2]^{(p_)*((c_) + (d_)*(x_)^2)^{(q_)}, x\_Symbol]$   
 $\rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*x^2)^p*(c + d*x^2)^q, x], x] /; \text{FreeQ}[\{a$   
 $, b, c, d, q\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IGtQ}[p, 0]$
333.  $\text{Int}[(a_) + (b_)*(x_)^2]^{(p_)*((c_) + (d_)*(x_)^2)^{(q_)}, x\_Symbol] :$   
 $> \text{Simp}[a^p*c^q*x*\text{AppellF1}[1/2, -p, -q, 3/2, (-b)*(x^2/a), (-d)*(x^2/c)$

], x] /; FreeQ[{a, b, c, d, p, q}, x] && NeQ[b\*c - a\*d, 0] && (IntegerQ[p] || GtQ[a, 0]) && (IntegerQ[q] || GtQ[c, 0])

334. Int[((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(q\_), x\_Symbol] :> Simp[a^IntPart[p]\*((a + b\*x^2)^FracPart[p]/(1 + b\*(x^2/a)^FracPart[p]) Int[(1 + b\*(x^2/a))^p\*(c + d\*x^2)^q, x], x] /; FreeQ[{a, b, c, d, p, q}, x] && NeQ[b\*c - a\*d, 0] && !(IntegerQ[p] || GtQ[a, 0])

335. Int[((e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Int[(e\*x)^m\*(a\*c + b\*d\*x^4)^p, x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[b\*c + a\*d, 0] && (IntegerQ[p] || (GtQ[a, 0] && GtQ[c, 0]))

336. Int[(x\_)^3\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(a + b\*x^2)^(p + 1)\*((c + d\*x^2)^(p + 1)/(4\*b\*d\*(p + 1))), x] /; FreeQ[{a, b, c, d, p}, x] && EqQ[b\*c + a\*d, 0]

337. Int[((e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(-e\*x)^(m + 1)\*(a + b\*x^2)^(p + 1)\*((c + d\*x^2)^(p + 1)/(4\*a\*c\*e\*(p + 1))), x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[b\*c + a\*d, 0] && EqQ[m + 4\*p + 5, 0]

338. Int[(x\_)^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[1/2 Subst[Int[x^((m - 1)/2)\*(a + b\*x)^p\*(c + d\*x)^p, x], x, x^2], x] /; FreeQ[{a, b, c, d, p}, x] && EqQ[b\*c + a\*d, 0] && IntegerQ[(m - 1)/2]

339. Int[((e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(e\*x)^(m + 1)\*(a + b\*x^2)^p\*((c + d\*x^2)^p/(e\*(m + 1))), x] - Simp[4\*b\*d\*(p/(e^4\*(m + 1))) Int[(e\*x)^(m + 4)\*(a + b\*x^2)^(p - 1)\*(c + d\*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[b\*c + a\*d, 0] && GtQ[p, 0] && LtQ[m, -1]

340. Int[((e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(e\*x)^(m + 1)\*(a + b\*x^2)^p\*((c + d\*x^2)^p/(e\*(m + 4\*p + 1))), x] + Simp[4\*a\*c\*(p/(m + 4\*p + 1)) Int[(e\*x)^m\*(a



+ b\*x^2)^(p - 1)\*(c + d\*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[b\*c + a\*d, 0] && GtQ[p, 0] && NeQ[m + 4\*p + 1, 0] && IntegerQ[2\*m]

341. Int[((e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[e^3\*(e\*x)^(m - 3)\*(a + b\*x^2)^(p + 1)\*((c + d\*x^2)^(p + 1)/(4\*b\*d\*(p + 1))), x] - Simp[e^4\*((m - 3)/(4\*b\*d\*(p + 1)) Int[(e\*x)^(m - 4)\*(a + b\*x^2)^(p + 1)\*(c + d\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[b\*c + a\*d, 0] && LtQ[p, -1] && GtQ[m, 3]

342. Int[((e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(-(e\*x)^(m + 1))\*(a + b\*x^2)^(p + 1)\*((c + d\*x^2)^(p + 1)/(4\*a\*c\*e\*(p + 1))), x] + Simp[(m + 4\*p + 5)/(4\*a\*c\*(p + 1)) Int[(e\*x)^m\*(a + b\*x^2)^(p + 1)\*(c + d\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[b\*c + a\*d, 0] && LtQ[p, -1] && IntegerQ[2\*m]

343. Int[((e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(e\*x)^(m + 1)\*(a + b\*x^2)^(p + 1)\*((c + d\*x^2)^(p + 1)/(a\*c\*e\*(m + 1))), x] - Simp[b\*d\*((m + 4\*p + 5)/(a\*c\*e^4\*(m + 1)) Int[(e\*x)^(m + 4)\*(a + b\*x^2)^p\*(c + d\*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[b\*c + a\*d, 0] && LtQ[m, -1]

344. Int[((e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(a + b\*x^2)^FracPart[p]\*((c + d\*x^2)^FracPart[p]/(a\*c + b\*d\*x^4)^FracPart[p]) Int[(e\*x)^m\*(a\*c + b\*d\*x^4)^p, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[b\*c + a\*d, 0] && !IntegerQ[p]

345. Int[(x\_)^(m\_)\*((b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(q\_), x\_Symbol] :> Simp[1/(2\*b^((m - 1)/2)) Subst[Int[(b\*x)^(p + (m - 1)/2)\*(c + d\*x)^q, x], x, x^2], x] /; FreeQ[{b, c, d, m, p, q}, x] && IntegerQ[(m - 1)/2]

346. Int[((e\_)\*(x\_))^(m\_)\*((b\_)\*(x\_)^2)^(p\_)\*((c\_) + (d\_)\*(x\_)^2)^(q\_), x\_Symbol] :> Simp[e^m\*b^IntPart[p]\*((b\*x^2)^FracPart[p]/x^(2\*FracPa

- ```

rt[p])) Int[x^(m + 2*p)*(c + d*x^2)^q, x], x] /; FreeQ[{b, c, d, e,
m, p, q}, x] && (IntegerQ[m] || GtQ[e, 0])

347. Int[((e_)*(x_))^(m_)*((b_)*(x_)^2.)^(p_)*((c_) + (d_)*(x_)^2)^(q_),
x_Symbol] :> Simp[e^IntPart[m]*((e*x)^FracPart[m]/x^FracPart[m]) Int
t[x^m*(b*x^2)^p*(c + d*x^2)^q, x], x] /; FreeQ[{b, c, d, e, m, p, q},
x] && !IntegerQ[m]

348. Int[(x_)/(((a_) + (b_)*(x_)^2)^(1/4)*((c_) + (d_)*(x_)^2)), x_Symbol
] :> Simp[(-Sqrt[2]*Rt[a, 4]*d)^(-1))*ArcTan[(Rt[a, 4]^2 - Sqrt[a + b
*x^2])/(Sqrt[2]*Rt[a, 4]*(a + b*x^2)^(1/4))], x] - Simp[(1/(Sqrt[2]*Rt
[a, 4]*d))*ArcTanh[(Rt[a, 4]^2 + Sqrt[a + b*x^2])/(Sqrt[2]*Rt[a, 4]*(a
+ b*x^2)^(1/4))], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c - 2*a*d, 0]
&& PosQ[a]

349. Int[(x_)^(m_)/(((a_) + (b_)*(x_)^2)^(1/4)*((c_) + (d_)*(x_)^2)), x_S
ymbol] :> Int[ExpandIntegrand[x^m/((a + b*x^2)^(1/4)*(c + d*x^2)), x],
x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c - 2*a*d, 0] && IntegerQ[m] &&
(PosQ[a] || IntegerQ[m/2])

350. Int[(x_)^2/(((a_) + (b_)*(x_)^2)^(3/4)*((c_) + (d_)*(x_)^2)), x_Symb
ol] :> Simp[(-b/(a*d*Rt[b^2/a, 4]^3))*ArcTan[(b + Rt[b^2/a, 4]^2*Sqrt[
a + b*x^2])/(Rt[b^2/a, 4]^3*x*(a + b*x^2)^(1/4))], x] + Simp[(b/(a*d*R
t[b^2/a, 4]^3))*ArcTanh[(b - Rt[b^2/a, 4]^2*Sqrt[a + b*x^2])/(Rt[b^2/a
, 4]^3*x*(a + b*x^2)^(1/4))], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c
- 2*a*d, 0] && PosQ[b^2/a]

351. Int[(x_)^2/(((a_) + (b_)*(x_)^2)^(3/4)*((c_) + (d_)*(x_)^2)), x_Symb
ol] :> Simp[(-b/(Sqrt[2]*a*d*Rt[-b^2/a, 4]^3))*ArcTan[(Rt[-b^2/a, 4]*x
)/(Sqrt[2]*(a + b*x^2)^(1/4))], x] + Simp[(b/(Sqrt[2]*a*d*Rt[-b^2/a, 4
]^3))*ArcTanh[(Rt[-b^2/a, 4]*x)/(Sqrt[2]*(a + b*x^2)^(1/4))], x] /; Fr
eeQ[{a, b, c, d}, x] && EqQ[b*c - 2*a*d, 0] && NegQ[b^2/a]

352. Int[(x_)^(m_)/(((a_) + (b_)*(x_)^2)^(3/4)*((c_) + (d_)*(x_)^2)), x_S
ymbol] :> Int[ExpandIntegrand[x^m/((a + b*x^2)^(3/4)*(c + d*x^2)), x],
x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c - 2*a*d, 0] && IntegerQ[m] &&

```

(PosQ[a] || IntegerQ[m/2])

353. $\text{Int}[(x_*)*((a_) + (b_)*(x_)^2)^{(p_)}*((c_) + (d_)*(x_)^2)^{(q_)}], x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Subst}[\text{Int}[(a + b*x)^p*(c + d*x)^q, x], x, x^2], x] /; \text{FreeQ}\{a, b, c, d, p, q\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
354. $\text{Int}[(x_)^{(m_)}*((a_) + (b_)*(x_)^2)^{(p_)}*((c_) + (d_)*(x_)^2)^{(q_)}], x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Subst}[\text{Int}[x^{(m-1)/2}*(a + b*x)^p*(c + d*x)^q, x], x, x^2], x] /; \text{FreeQ}\{a, b, c, d, p, q\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IntegerQ}[(m-1)/2]$
355. $\text{Int}[(e_)*(x_)^{(m_)}*((a_) + (b_)*(x_)^2)^{(p_)}*((c_) + (d_)*(x_)^2)^{(q_)}], x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(e*x)^m*(a + b*x^2)^p*(c + d*x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IGtQ}[q, 0]$
356. $\text{Int}[(e_)*(x_)^{(m_)}*((a_) + (b_)*(x_)^2)^{(p_)}*((c_) + (d_)*(x_)^2)], x_Symbol] \rightarrow \text{Simp}[c*(e*x)^{(m+1)}*((a + b*x^2)^{(p+1)})/(a*e*(m+1))], x] /; \text{FreeQ}\{a, b, c, d, e, m, p\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a*d*(m+1) - b*c*(m+2*p+3), 0] \ \&\& \ \text{NeQ}[m, -1]$
357. $\text{Int}[(e_)*(x_)^{(m_)}*((a_) + (b_)*(x_)^2)^{(p_)}*((c_) + (d_)*(x_)^2)], x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)*(e*x)^{(m+1)}*((a + b*x^2)^{(p+1)})/(a*b*e*(m+1))], x] + \text{Simp}[d/b \text{ Int}[(e*x)^m*(a + b*x^2)^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[m + 2*p + 3, 0] \ \&\& \ \text{LtQ}[p, -1]$
358. $\text{Int}[(e_)*(x_)^{(m_)}*((a_) + (b_)*(x_)^2)^{(p_)}*((c_) + (d_)*(x_)^2)], x_Symbol] \rightarrow \text{Simp}[c*(e*x)^{(m+1)}*((a + b*x^2)^{(p+1)})/(a*e*(m+1))], x] + \text{Simp}[d/e^2 \text{ Int}[(e*x)^{(m+2)}*(a + b*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, p\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[\text{Simplify}[m + 2*p + 3], 0] \ \&\& \ \text{NeQ}[m, -1]$
359. $\text{Int}[(e_)*(x_)^{(m_)}*((a_) + (b_)*(x_)^2)^{(p_)}*((c_) + (d_)*(x_)^2)], x_Symbol] \rightarrow \text{Simp}[c*(e*x)^{(m+1)}*((a + b*x^2)^{(p+1)})/(a*e*(m+1))], x] + \text{Simp}[(a*d*(m+1) - b*c*(m+2*p+3))/(a*e^2*(m+1)) \text{ Int}$

```
[(e*x)^(m + 2)*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, p}, x] &
& NeQ[b*c - a*d, 0] && LtQ[m, -1] && !ILtQ[p, -1]
```

```
360. Int[(x_)^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2), x_Symbol]
:> Simp[(-a)^(m/2 - 1)*(b*c - a*d)*x*((a + b*x^2)^(p + 1)/(2*b^(m/2 + 1)*(p + 1))), x] + Simp[1/(2*b^(m/2 + 1)*(p + 1)) Int[(a + b*x^2)^(p + 1)*ExpandToSum[2*b*(p + 1)*x^2*Together[(b^(m/2)*x^(m - 2)*(c + d*x^2) - (-a)^(m/2 - 1)*(b*c - a*d))/(a + b*x^2)] - (-a)^(m/2 - 1)*(b*c - a*d), x], x], x] /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && IGtQ[m/2, 0] && (IntegerQ[p] || EqQ[m + 2*p + 1, 0])
```

```
361. Int[(x_)^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2), x_Symbol]
:> Simp[(-a)^(m/2 - 1)*(b*c - a*d)*x*((a + b*x^2)^(p + 1)/(2*b^(m/2 + 1)*(p + 1))), x] + Simp[1/(2*b^(m/2 + 1)*(p + 1)) Int[x^m*(a + b*x^2)^(p + 1)*ExpandToSum[2*b*(p + 1)*Together[(b^(m/2)*(c + d*x^2) - (-a)^(m/2 - 1)*(b*c - a*d)*x^(-m + 2))/(a + b*x^2)] - ((-a)^(m/2 - 1)*(b*c - a*d))/x^m, x], x], x] /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && ILtQ[m/2, 0] && (IntegerQ[p] || EqQ[m + 2*p + 1, 0])
```

```
362. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2), x_Symbol]
:> Simp[(-b*c - a*d)*(e*x)^(m + 1)*((a + b*x^2)^(p + 1)/(2*a*b*e*(p + 1))), x] - Simp[(a*d*(m + 1) - b*c*(m + 2*p + 3))/(2*a*b*(p + 1)) Int[(e*x)^m*(a + b*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && (( !IntegerQ[p + 1/2] && NeQ[p, -5/4]) || !RationalQ[m] || (ILtQ[p + 1/2, 0] && LeQ[-1, m, -2*(p + 1)]))
```

```
363. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2), x_Symbol]
:> Simp[d*(e*x)^(m + 1)*((a + b*x^2)^(p + 1)/(b*e*(m + 2*p + 3))), x] - Simp[(a*d*(m + 1) - b*c*(m + 2*p + 3))/(b*(m + 2*p + 3)) Int[(e*x)^m*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m + 2*p + 3, 0]
```

```
364. Int[(((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_))/((c_) + (d_)*(x_)^2), x_Symbol]
:> Int[ExpandIntegrand[(e*x)^m*((a + b*x^2)^p/(c + d*x^2)), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && NeQ[b*c - a*d, 0] && IG
```

tQ[p, 0] && (IntegerQ[m] || IGtQ[2*(m + 1), 0] || !RationalQ[m])

365. Int[((e_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^2, x_Symbol] := Simp[c^2*(e*x)^(m + 1)*((a + b*x^2)^(p + 1)/(a*e*(m + 1))), x] - Simp[1/(a*e^2*(m + 1)) Int[(e*x)^(m + 2)*(a + b*x^2)^p*Simp[2*b*c^2*(p + 1) + c*(b*c - 2*a*d)*(m + 1) - a*d^2*(m + 1)*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && NeQ[b*c - a*d, 0] && LtQ[m, -1]

366. Int[((e_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^2, x_Symbol] := Simp[(-b*c - a*d)^2*(e*x)^(m + 1)*((a + b*x^2)^(p + 1)/(2*a*b^2*e*(p + 1))), x] + Simp[1/(2*a*b^2*(p + 1)) Int[(e*x)^m*(a + b*x^2)^(p + 1)*Simp[(b*c - a*d)^2*(m + 1) + 2*b^2*c^2*(p + 1) + 2*a*b*d^2*(p + 1)*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, m}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1]

367. Int[((e_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^2, x_Symbol] := Simp[d^2*(e*x)^(m + 3)*((a + b*x^2)^(p + 1)/(b*e^3*(m + 2*p + 5))), x] + Simp[1/(b*(m + 2*p + 5)) Int[(e*x)^m*(a + b*x^2)^p*Simp[b*c^2*(m + 2*p + 5) - d*(a*d*(m + 3) - 2*b*c*(m + 2*p + 5))*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m + 2*p + 5, 0]

368. Int[((e_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] := With[{k = Denominator[m]}, Simp[k/e Subst[Int[x^(k*(m + 1) - 1)*(a + b*(x^(k*2)/e^2))^p*(c + d*(x^(k*2)/e^2))^q, x], x, (e*x)^(1/k)], x] /; FreeQ[{a, b, c, d, e, p, q}, x] && NeQ[b*c - a*d, 0] && FractionQ[m] && IntegerQ[p]

369. Int[((e_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^2)^(p_)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] := Simp[e*(e*x)^(m - 1)*(a + b*x^2)^(p + 1)*((c + d*x^2)^q/(2*b*(p + 1))), x] - Simp[e^2/(2*b*(p + 1)) Int[(e*x)^(m - 2)*(a + b*x^2)^(p + 1)*(c + d*x^2)^(q - 1)*Simp[c*(m - 1) + d*(m + 2*q - 1)*x^2, x], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && GtQ[q, 0] && GtQ[m, 1] && IntBinomialQ[a, b, c, d, e, m, 2, p, q, x]

370. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b \cdot c - a \cdot d) \cdot (e \cdot x)^{m+1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q-1} / (a \cdot b \cdot e^2 \cdot (p+1)), x] + \text{Simp}[1 / (a \cdot b \cdot e^2 \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q-2} \cdot \text{Simp}[c \cdot (b \cdot c \cdot 2 \cdot (p+1) + (b \cdot c - a \cdot d) \cdot (m+1)) + d \cdot (b \cdot c \cdot 2 \cdot (p+1) + (b \cdot c - a \cdot d) \cdot (m+2 \cdot (q-1) + 1)) \cdot x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, p, q, x]$
371. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-e \cdot x)^{m+1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^q / (a \cdot e^2 \cdot (p+1)), x] + \text{Simp}[1 / (a^2 \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q-1} \cdot \text{Simp}[c \cdot (m+2 \cdot (p+1) + 1) + d \cdot (m+2 \cdot (p+q+1) + 1) \cdot x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LtQ}[p, -1] \&\& \text{LtQ}[0, q, 1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, p, q, x]$
372. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-a) \cdot e^3 \cdot (e \cdot x)^{m-3} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q+1} / (2 \cdot b \cdot (b \cdot c - a \cdot d) \cdot (p+1)), x] + \text{Simp}[e^4 / (2 \cdot b \cdot (b \cdot c - a \cdot d) \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^{m-4} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^q \cdot \text{Simp}[a \cdot c \cdot (m-3) + (a \cdot d \cdot (m+2 \cdot q-1) + 2 \cdot b \cdot c \cdot (p+1)) \cdot x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 3] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, p, q, x]$
373. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[e \cdot (e \cdot x)^{m-1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q+1} / (2 \cdot (b \cdot c - a \cdot d) \cdot (p+1)), x] - \text{Simp}[e^2 / (2 \cdot (b \cdot c - a \cdot d) \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^{m-2} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^q \cdot \text{Simp}[c \cdot (m-1) + d \cdot (m+2 \cdot p+2 \cdot q+3) \cdot x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 1] \&\& \text{LeQ}[m, 3] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, p, q, x]$
374. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b) \cdot (e \cdot x)^{m+1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q+1} / (a \cdot e^2 \cdot (b \cdot c - a \cdot d) \cdot (p+1)), x] + \text{Simp}[1 / (a^2 \cdot (b \cdot c - a \cdot d) \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^q \cdot \text{Simp}[b \cdot c$

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*(m + 1) + 2*(b*c - a*d)*(p + 1) + d*b*(m + 2*(p + q + 2) + 1)*x^2, x]
, x], x] /; FreeQ[{a, b, c, d, e, m, q}, x] && NeQ[b*c - a*d, 0] && Lt
Q[p, -1] && IntBinomialQ[a, b, c, d, e, m, 2, p, q, x]

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375. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)
^(q_), x_Symbol] :> Simp[(e*x)^(m + 1)*(a + b*x^2)^p*((c + d*x^2)^q/(e
*(m + 1))), x] - Simp[2/(e^2*(m + 1)) Int[(e*x)^(m + 2)*(a + b*x^2)^
(p - 1)*(c + d*x^2)^(q - 1)*Simp[b*c*p + a*d*q + b*d*(p + q)*x^2, x],
x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b*c - a*d, 0] && GtQ[q, 0]
&& LtQ[m, -1] && GtQ[p, 0] && IntBinomialQ[a, b, c, d, e, m, 2, p, q,
x]

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376. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)
^(q_), x_Symbol] :> Simp[c*(e*x)^(m + 1)*(a + b*x^2)^(p + 1)*((c + d*x
^2)^(q - 1)/(a*e*(m + 1))), x] - Simp[1/(a*e^2*(m + 1)) Int[(e*x)^(m
+ 2)*(a + b*x^2)^p*(c + d*x^2)^(q - 2)*Simp[c*(b*c - a*d)*(m + 1) + 2
*c*(b*c*(p + 1) + a*d*(q - 1)) + d*((b*c - a*d)*(m + 1) + 2*b*c*(p + q
))*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && NeQ[b*c - a*d, 0]
&& GtQ[q, 1] && LtQ[m, -1] && IntBinomialQ[a, b, c, d, e, m, 2, p, q
, x]

```

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377. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)
^(q_), x_Symbol] :> Simp[(e*x)^(m + 1)*(a + b*x^2)^(p + 1)*((c + d*x^2)
^q/(a*e*(m + 1))), x] - Simp[1/(a*e^2*(m + 1)) Int[(e*x)^(m + 2)*(a
+ b*x^2)^p*(c + d*x^2)^(q - 1)*Simp[b*c*(m + 1) + 2*(b*c*(p + 1) + a*
d*q) + d*(b*(m + 1) + 2*b*(p + q + 1))*x^2, x], x], x] /; FreeQ[{a, b,
c, d, e, p}, x] && NeQ[b*c - a*d, 0] && LtQ[0, q, 1] && LtQ[m, -1] &&
IntBinomialQ[a, b, c, d, e, m, 2, p, q, x]

```

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378. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)
^(q_), x_Symbol] :> Simp[(e*x)^(m + 1)*(a + b*x^2)^p*((c + d*x^2)^q/(
e*(m + 2*(p + q) + 1))), x] + Simp[2/(m + 2*(p + q) + 1) Int[(e*x)^m
*(a + b*x^2)^(p - 1)*(c + d*x^2)^(q - 1)*Simp[a*c*(p + q) + (q*(b*c -
a*d) + a*d*(p + q))*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, m}, x] &&
NeQ[b*c - a*d, 0] && GtQ[q, 0] && GtQ[p, 0] && IntBinomialQ[a, b, c,
d, e, m, 2, p, q, x]

```

379. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot (e \cdot x)^{m+1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q-1} / (b \cdot e \cdot (m + 2 \cdot (p + q) + 1))], x] + \text{Simp}[1 / (b \cdot (m + 2 \cdot (p + q) + 1)) \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^{q-2} \cdot \text{Simp}[c \cdot (b \cdot c - a \cdot d) \cdot (m + 1) + b \cdot c \cdot 2 \cdot (p + q) + (d \cdot (b \cdot c - a \cdot d) \cdot (m + 1) + d \cdot 2 \cdot (q - 1) \cdot (b \cdot c - a \cdot d) + b \cdot c \cdot d \cdot 2 \cdot (p + q)) \cdot x^2], x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, p\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{GtQ}[q, 1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, p, q, x]$
380. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[e \cdot (e \cdot x)^{m-1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^q / (b \cdot (m + 2 \cdot (p + q) + 1))], x] - \text{Simp}[e^2 / (b \cdot (m + 2 \cdot (p + q) + 1)) \text{Int}[(e \cdot x)^{m-2} \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^{q-1} \cdot \text{Simp}[a \cdot c \cdot (m - 1) + (a \cdot d \cdot (m - 1) - 2 \cdot q \cdot (b \cdot c - a \cdot d)) \cdot x^2], x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[m, 1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, p, q, x]$
381. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[e^3 \cdot (e \cdot x)^{m-3} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q+1} / (b \cdot d \cdot (m + 2 \cdot (p + q) + 1))], x] - \text{Simp}[e^4 / (b \cdot d \cdot (m + 2 \cdot (p + q) + 1)) \text{Int}[(e \cdot x)^{m-4} \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q \cdot \text{Simp}[a \cdot c \cdot (m - 3) + (a \cdot d \cdot (m + 2 \cdot q - 1) + b \cdot c \cdot (m + 2 \cdot p - 1)) \cdot x^2], x], x] /; \text{FreeQ}[\{a, b, c, d, e, p, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{GtQ}[m, 3] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, p, q, x]$
382. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e \cdot x)^{m+1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q+1} / (a \cdot c \cdot e \cdot (m + 1))], x] - \text{Simp}[1 / (a \cdot c \cdot e^2 \cdot (m + 1)) \text{Int}[(e \cdot x)^{m+2} \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q \cdot \text{Simp}[(b \cdot c + a \cdot d) \cdot (m + 3) + 2 \cdot (b \cdot c \cdot p + a \cdot d \cdot q) + b \cdot d \cdot (m + 2 \cdot p + 2 \cdot q + 5)] \cdot x^2], x], x] /; \text{FreeQ}[\{a, b, c, d, e, p, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LtQ}[m, -1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, p, q, x]$
383. $\text{Int}[(e \cdot x)^m / ((a + b \cdot x^2) \cdot (c + d \cdot x^2)), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-a) \cdot (e^2 / (b \cdot c - a \cdot d)) \text{Int}[(e \cdot x)^{m-2} / (a + b \cdot x^2)], x] + \text{Simp}[c \cdot (e^2 / (b \cdot c - a \cdot d)) \text{Int}[(e \cdot x)^{m-2} / (c + d \cdot x^2)], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LeQ}[2,$

m, 3]

384. $\text{Int}[\frac{(e \cdot x)^m}{(a + b \cdot x^2)(c + d \cdot x^2)}, x_Symbol] \rightarrow \text{Simp}[b/(b \cdot c - a \cdot d) \text{Int}[(e \cdot x)^m/(a + b \cdot x^2), x], x] - \text{Simp}[d/(b \cdot c - a \cdot d) \text{Int}[(e \cdot x)^m/(c + d \cdot x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0]$
385. $\text{Int}[\frac{(e \cdot x)^m (c + d \cdot x^2)^q}{(a + b \cdot x^2)}, x_Symbol] \rightarrow \text{Simp}[e^2/b \text{Int}[(e \cdot x)^{m-2} (c + d \cdot x^2)^q, x], x] - \text{Simp}[a \cdot (e^2/b) \text{Int}[(e \cdot x)^{m-2} (c + d \cdot x^2)^q / (a + b \cdot x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, m, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LeQ}[2, m, 3] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, 2, -1, q, x]$
386. $\text{Int}[\frac{(x \cdot (a + b \cdot x^2)^p)}{(c + d \cdot x^2)}, x_Symbol] \rightarrow \text{Simp}[b/d \text{Int}[x \cdot (a + b \cdot x^2)^{p-1}, x], x] - \text{Simp}[(b \cdot c - a \cdot d)/d \text{Int}[x \cdot (a + b \cdot x^2)^{p-1} / (c + d \cdot x^2), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{GtQ}[p, 0] \&\& \text{IntBinomialQ}[a, b, c, d, 1, 1, 2, p, -1, x]$
387. $\text{Int}[\frac{(x \cdot (a + b \cdot x^2)^p)}{(c + d \cdot x^2)}, x_Symbol] \rightarrow \text{Simp}[b/(b \cdot c - a \cdot d) \text{Int}[x \cdot (a + b \cdot x^2)^{p-1}, x], x] - \text{Simp}[d/(b \cdot c - a \cdot d) \text{Int}[x \cdot (a + b \cdot x^2)^{p+1} / (c + d \cdot x^2), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntBinomialQ}[a, b, c, d, 1, 1, 2, p, -1, x]$
388. $\text{Int}[x^2 / (\text{Sqrt}[a + b \cdot x^2] \cdot \text{Sqrt}[c + d \cdot x^2]), x_Symbol] \rightarrow \text{Simp}[x \cdot (\text{Sqrt}[a + b \cdot x^2] / (b \cdot \text{Sqrt}[c + d \cdot x^2])), x] - \text{Simp}[c/b \text{Int}[\text{Sqrt}[a + b \cdot x^2] / (c + d \cdot x^2)^{3/2}, x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{PosQ}[b/a] \&\& \text{PosQ}[d/c] \&\& \text{!SimplerSqrtQ}[b/a, d/c]$
389. $\text{Int}[x^2 / (\text{Sqrt}[a + b \cdot x^2] \cdot \text{Sqrt}[c + d \cdot x^2]), x_Symbol] \rightarrow \text{Simp}[1/b \text{Int}[\text{Sqrt}[a + b \cdot x^2] / \text{Sqrt}[c + d \cdot x^2], x], x] - \text{Simp}[a/b \text{Int}[1 / (\text{Sqrt}[a + b \cdot x^2] \cdot \text{Sqrt}[c + d \cdot x^2]), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{!SimplerSqrtQ}[-b/a, -d/c]$

390. `Int[(x_)^(m_.)*((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(q_.),
x_Symbol] := With[{k = Denominator[p]}, Simp[k*(a^(p + (m + 1)/2)/2)
Subst[Int[x^(k*((m + 1)/2) - 1)*((c - (b*c - a*d)*x^k)^q/(1 - b*x^k)
^(p + q + (m + 1)/2 + 1)), x], x, x^(2/k)/(a + b*x^2)^(1/k)], x] /; FreeQ[{a, b, c, d}, x] && RationalQ[m, p] && IntegersQ[p + (m + 1)/2, q]
&& LtQ[-1, p, 0]`
391. `Int[(x_)^(m_)/(((a_) + (b_.)*(x_)^2)*((c_) + (d_.)*(x_)^2)), x_Symbol]
:= Simp[-a/(b*c - a*d) Int[x^(m - 2)/(a + b*x^2), x], x] + Simp[c/(b*c - a*d) Int[x^(m - 2)/(c + d*x^2), x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ[b*c - a*d, 0] && (EqQ[m, 2] || EqQ[m, 3])`
392. `Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] := Int[ExpandIntegrand[(e*x)^m*(a + b*x^2)^p*(c + d*x^2)^q, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && NeQ[b*c - a*d, 0] && IGtQ[p, -2] && (IGtQ[q, -2] || (EqQ[q, -3] && IntegerQ[(m - 1)/2]))`
393. `Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] := Simp[(e*x)^m/(2*x*(x^2)^(Simplify[(m + 1)/2] - 1)) Subst[Int[x^(Simplify[(m + 1)/2] - 1)*(a + b*x)^p*(c + d*x)^q, x], x, x^2], x] /; FreeQ[{a, b, c, d, e, m, p, q}, x] && NeQ[b*c - a*d, 0] && IntegerQ[Simplify[m + 2*p]] && !IntegerQ[m]`
394. `Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] := Simp[a^p*c^q*((e*x)^(m + 1)/(e*(m + 1)))*AppellF1[(m + 1)/2, -p, -q, 1 + (m + 1)/2, (-b)*(x^2/a), (-d)*(x^2/c)], x] /; FreeQ[{a, b, c, d, e, m, p, q}, x] && NeQ[b*c - a*d, 0] && NeQ[m, -1] && NeQ[m, 1] && (IntegerQ[p] || GtQ[a, 0]) && (IntegerQ[q] || GtQ[c, 0])`
395. `Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2)^(p_.)*((c_) + (d_.)*(x_)^2)^(q_), x_Symbol] := Simp[a^IntPart[p]*((a + b*x^2)^FracPart[p]/(1 + b*(x^2/a)^FracPart[p]) Int[(e*x)^m*(1 + b*(x^2/a))^p*(c + d*x^2)^q, x], x] /; FreeQ[{a, b, c, d, e, m, p, q}, x] && NeQ[b*c - a*d, 0] && NeQ[m, -1] && NeQ[m, 1] && !(IntegerQ[p] || GtQ[a, 0])`

396. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}((e_+ + (f_+)(x_+)^2)^{r_+}), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*x^2)^p*(c + d*x^2)^q*(e + f*x^2)^r, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, 0] \&\& \text{IGtQ}[r, 0]$
397. $\text{Int}[(e_+ + (f_+)(x_+)^2)/((a_+ + (b_+)(x_+)^2)*((c_+ + (d_+)(x_+)^2))], x_Symbol] \rightarrow \text{Simp}[(b*e - a*f)/(b*c - a*d) \text{Int}[1/(a + b*x^2), x], x] - \text{Simp}[(d*e - c*f)/(b*c - a*d) \text{Int}[1/(c + d*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x]$
398. $\text{Int}[(e_+ + (f_+)(x_+)^2)/((a_+ + (b_+)(x_+)^2)*\text{Sqrt}[(c_+ + (d_+)(x_+)^2])], x_Symbol] \rightarrow \text{Simp}[f/b \text{Int}[1/\text{Sqrt}[c + d*x^2], x], x] + \text{Simp}[(b*e - a*f)/b \text{Int}[1/((a + b*x^2)*\text{Sqrt}[c + d*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x]$
399. $\text{Int}[(e_+ + (f_+)(x_+)^2)/(\text{Sqrt}[(a_+ + (b_+)(x_+)^2]*\text{Sqrt}[(c_+ + (d_+)(x_+)^2])], x_Symbol] \rightarrow \text{Simp}[f/b \text{Int}[\text{Sqrt}[a + b*x^2]/\text{Sqrt}[c + d*x^2], x], x] + \text{Simp}[(b*e - a*f)/b \text{Int}[1/(\text{Sqrt}[a + b*x^2]*\text{Sqrt}[c + d*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& !((\text{PosQ}[b/a] \&\& \text{PosQ}[d/c]) || (\text{NegQ}[b/a] \&\& (\text{PosQ}[d/c] || (\text{GtQ}[a, 0] \&\& (!\text{GtQ}[c, 0] || \text{SimplerSqrtQ}[-b/a, -d/c])))$
400. $\text{Int}[(e_+ + (f_+)(x_+)^2)/(\text{Sqrt}[(a_+ + (b_+)(x_+)^2]*((c_+ + (d_+)(x_+)^2)^{3/2})], x_Symbol] \rightarrow \text{Simp}[(b*e - a*f)/(b*c - a*d) \text{Int}[1/(\text{Sqrt}[a + b*x^2]*\text{Sqrt}[c + d*x^2]), x], x] - \text{Simp}[(d*e - c*f)/(b*c - a*d) \text{Int}[\text{Sqrt}[a + b*x^2]/(c + d*x^2)^{3/2}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{PosQ}[b/a] \&\& \text{PosQ}[d/c]$
401. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}((e_+ + (f_+)(x_+)^2)^{r_+}), x_Symbol] \rightarrow \text{Simp}[(-(b*e - a*f))*x*(a + b*x^2)^{p+1}*(c + d*x^2)^q/(a*b*2*(p+1)), x] + \text{Simp}[1/(a*b*2*(p+1)) \text{Int}[(a + b*x^2)^{p+1}*(c + d*x^2)^{q-1}*\text{Simp}[c*(b*e*2*(p+1) + b*e - a*f) + d*(b*e*2*(p+1) + (b*e - a*f)*(2*q+1))*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 0]$
402. $\text{Int}[(a_+ + (b_+)(x_+)^2)^{p_+}((c_+ + (d_+)(x_+)^2)^{q_+}((e_+ + (f_+)(x_+)^2)^{r_+}), x_Symbol] \rightarrow \text{Simp}[(-(b*e - a*f))*x*(a + b*x^2)^{p+1}*(c$

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+ d*x^2)^(q + 1)/(a*2*(b*c - a*d)*(p + 1))), x] + Simp[1/(a*2*(b*c -
a*d)*(p + 1)) Int[(a + b*x^2)^(p + 1)*(c + d*x^2)^q*Simp[c*(b*e - a*
f) + e*2*(b*c - a*d)*(p + 1) + d*(b*e - a*f)*(2*(p + q + 2) + 1)*x^2,
x], x] /; FreeQ[{a, b, c, d, e, f, q}, x] && LtQ[p, -1]

```

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403. Int[((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)^(q_)*((e_) + (f
_)*(x_)^2), x_Symbol] :> Simp[f*x*(a + b*x^2)^(p + 1)*((c + d*x^2)^q/
(b*(2*(p + q + 1) + 1))), x] + Simp[1/(b*(2*(p + q + 1) + 1)) Int[(a
+ b*x^2)^p*(c + d*x^2)^(q - 1)*Simp[c*(b*e - a*f + b*e*2*(p + q + 1))
+ (d*(b*e - a*f) + f*2*q*(b*c - a*d) + b*d*e*2*(p + q + 1))*x^2, x],
x], x] /; FreeQ[{a, b, c, d, e, f, p}, x] && GtQ[q, 0] && NeQ[2*(p + q
+ 1) + 1, 0]

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404. Int[((e_) + (f_)*(x_)^4)/(((a_) + (b_)*(x_)^4)^(3/4)*((c_) + (d_)*(
x_)^4)), x_Symbol] :> Simp[(b*e - a*f)/(b*c - a*d) Int[1/(a + b*x^4)
^(3/4), x], x] - Simp[(d*e - c*f)/(b*c - a*d) Int[(a + b*x^4)^(1/4)/
(c + d*x^4), x], x] /; FreeQ[{a, b, c, d, e, f}, x]

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405. Int[(((a_) + (b_)*(x_)^2)^(p_)*((e_) + (f_)*(x_)^2))/((c_) + (d_)*(
x_)^2), x_Symbol] :> Simp[f/d Int[(a + b*x^2)^p, x], x] + Simp[(d*e
- c*f)/d Int[(a + b*x^2)^p/(c + d*x^2), x], x] /; FreeQ[{a, b, c, d,
e, f, p}, x]

```

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406. Int[((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)^(q_)*((e_) + (f
_)*(x_)^2), x_Symbol] :> Simp[e Int[(a + b*x^2)^p*(c + d*x^2)^q, x],
x] + Simp[f Int[x^2*(a + b*x^2)^p*(c + d*x^2)^q, x], x] /; FreeQ[{a,
b, c, d, e, f, p, q}, x]

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407. Int[1/(((a_) + (b_)*(x_)^2)*((c_) + (d_)*(x_)^2)*Sqrt[(e_) + (f_)*(
x_)^2]), x_Symbol] :> Simp[b/(b*c - a*d) Int[1/((a + b*x^2)*Sqrt[e +
f*x^2]), x], x] - Simp[d/(b*c - a*d) Int[1/((c + d*x^2)*Sqrt[e + f*
x^2]), x], x] /; FreeQ[{a, b, c, d, e, f}, x]

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408. Int[1/((x_)^2*((c_) + (d_)*(x_)^2)*Sqrt[(e_) + (f_)*(x_)^2]), x_Symb
ol] :> Simp[1/c Int[1/(x^2*Sqrt[e + f*x^2]), x], x] - Simp[d/c Int
[1/((c + d*x^2)*Sqrt[e + f*x^2]), x], x] /; FreeQ[{c, d, e, f}, x] &&

```

NeQ[d*e - c*f, 0]

409. $\text{Int}[(\text{Sqrt}[(c_)+(d_)(x_)^2]*\text{Sqrt}[(e_)+(f_)(x_)^2])/((a_)+(b_)(x_)^2), x_Symbol] \rightarrow \text{Simp}[d/b \text{ Int}[\text{Sqrt}[e + f*x^2]/\text{Sqrt}[c + d*x^2], x], x] + \text{Simp}[(b*c - a*d)/b \text{ Int}[\text{Sqrt}[e + f*x^2]/((a + b*x^2)*\text{Sqrt}[c + d*x^2]), x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && GtQ[d/c, 0] && GtQ[f/e, 0] && !SimplerSqrtQ[d/c, f/e]
410. $\text{Int}[(\text{Sqrt}[(c_)+(d_)(x_)^2]*\text{Sqrt}[(e_)+(f_)(x_)^2])/((a_)+(b_)(x_)^2), x_Symbol] \rightarrow \text{Simp}[d/b \text{ Int}[\text{Sqrt}[e + f*x^2]/\text{Sqrt}[c + d*x^2], x], x] + \text{Simp}[(b*c - a*d)/b \text{ Int}[\text{Sqrt}[e + f*x^2]/((a + b*x^2)*\text{Sqrt}[c + d*x^2]), x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && !SimplerSqrtQ[-f/e, -d/c]
411. $\text{Int}[1/(((a_)+(b_)(x_)^2)*\text{Sqrt}[(c_)+(d_)(x_)^2]*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[-f/(b*e - a*f) \text{ Int}[1/(\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x] + \text{Simp}[b/(b*e - a*f) \text{ Int}[\text{Sqrt}[e + f*x^2]/((a + b*x^2)*\text{Sqrt}[c + d*x^2]), x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && GtQ[d/c, 0] && GtQ[f/e, 0] && !SimplerSqrtQ[d/c, f/e]
412. $\text{Int}[1/(((a_)+(b_)(x_)^2)*\text{Sqrt}[(c_)+(d_)(x_)^2]*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[(1/(a*\text{Sqrt}[c]*\text{Sqrt}[e]*\text{Rt}[-d/c, 2]))*EllipticPi[b*(c/(a*d)), \text{ArcSin}[\text{Rt}[-d/c, 2]*x], c*(f/(d*e))], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && !GtQ[d/c, 0] && GtQ[c, 0] && GtQ[e, 0] && !(!GtQ[f/e, 0] && SimplerSqrtQ[-f/e, -d/c])
413. $\text{Int}[1/(((a_)+(b_)(x_)^2)*\text{Sqrt}[(c_)+(d_)(x_)^2]*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 + (d/c)*x^2]/\text{Sqrt}[c + d*x^2] \text{ Int}[1/((a + b*x^2)*\text{Sqrt}[1 + (d/c)*x^2]*\text{Sqrt}[e + f*x^2]), x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && !GtQ[c, 0]
414. $\text{Int}[\text{Sqrt}[(c_)+(d_)(x_)^2]/(((a_)+(b_)(x_)^2)*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[c*(\text{Sqrt}[e + f*x^2]/(a*e*\text{Rt}[d/c, 2]*\text{Sqrt}[c + d*x^2]*\text{Sqrt}[c*((e + f*x^2)/(e*(c + d*x^2))])))*EllipticPi[1 - b*(c/(a*d)), \text{ArcTan}[\text{Rt}[d/c, 2]*x], 1 - c*(f/(d*e))], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && PosQ[d/c]

415. $\text{Int}[\text{Sqrt}[(c_)+(d_)(x_)^2]/(((a_)+(b_)(x_)^2)*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[d/b \text{ Int}[1/(\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x] + \text{Simp}[(b*c - a*d)/b \text{ Int}[1/((a + b*x^2)*\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, x\} \ \&\& \ \text{NegQ}[d/c]$
416. $\text{Int}[\text{Sqrt}[(e_)+(f_)(x_)^2]/(((a_)+(b_)(x_)^2)*((c_)+(d_)(x_)^2)^{(3/2)}), x_Symbol] \rightarrow \text{Simp}[b/(b*c - a*d) \text{ Int}[\text{Sqrt}[e + f*x^2]/((a + b*x^2)*\text{Sqrt}[c + d*x^2]), x], x] - \text{Simp}[d/(b*c - a*d) \text{ Int}[\text{Sqrt}[e + f*x^2]/(c + d*x^2)^{(3/2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, x\} \ \&\& \ \text{PosQ}[d/c] \ \&\& \ \text{PosQ}[f/e]$
417. $\text{Int}[((e_)+(f_)(x_)^2)^{(3/2)}/(((a_)+(b_)(x_)^2)*((c_)+(d_)(x_)^2)^{(3/2)}), x_Symbol] \rightarrow \text{Simp}[(b*e - a*f)/(b*c - a*d) \text{ Int}[\text{Sqrt}[e + f*x^2]/((a + b*x^2)*\text{Sqrt}[c + d*x^2]), x], x] - \text{Simp}[(d*e - c*f)/(b*c - a*d) \text{ Int}[\text{Sqrt}[e + f*x^2]/(c + d*x^2)^{(3/2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, x\} \ \&\& \ \text{PosQ}[d/c] \ \&\& \ \text{PosQ}[f/e]$
418. $\text{Int}[(((c_)+(d_)(x_)^2)^{(3/2)}*\text{Sqrt}[(e_)+(f_)(x_)^2])/((a_)+(b_)(x_)^2), x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)^2/b^2 \text{ Int}[\text{Sqrt}[e + f*x^2]/((a + b*x^2)*\text{Sqrt}[c + d*x^2]), x], x] + \text{Simp}[d/b^2 \text{ Int}[(2*b*c - a*d + b*d*x^2)*(Sqrt[e + f*x^2]/Sqrt[c + d*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, x\} \ \&\& \ \text{PosQ}[d/c] \ \&\& \ \text{PosQ}[f/e]$
419. $\text{Int}[(((c_)+(d_)(x_)^2)^{(q_)*((e_)+(f_)(x_)^2)^{(r_))}/((a_)+(b_)(x_)^2), x_Symbol] \rightarrow \text{Simp}[b*((b*e - a*f)/(b*c - a*d)^2) \text{ Int}[(c + d*x^2)^{(q + 2)*((e + f*x^2)^{(r - 1)}/(a + b*x^2))}, x], x] - \text{Simp}[1/(b*c - a*d)^2 \text{ Int}[(c + d*x^2)^q*(e + f*x^2)^{(r - 1)*(2*b*c*d*e - a*d^2*e - b*c^2*f + d^2*(b*e - a*f)*x^2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, x\} \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{GtQ}[r, 1]$
420. $\text{Int}[(((c_)+(d_)(x_)^2)^{(q_)*((e_)+(f_)(x_)^2)^{(r_))}/((a_)+(b_)(x_)^2), x_Symbol] \rightarrow \text{Simp}[d/b \text{ Int}[(c + d*x^2)^{(q - 1)*(e + f*x^2)^r}, x], x] + \text{Simp}[(b*c - a*d)/b \text{ Int}[(c + d*x^2)^{(q - 1)*((e + f*x^2)^r/(a + b*x^2))}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, r, x\} \ \&\& \ \text{GtQ}[q, 1]$

421. $\text{Int}[(((c_)+(d_)*(x_)^2)^{(q_)*((e_)+(f_)*(x_)^2)^{(r_))}/((a_)+(b_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[b^2/(b*c - a*d)^2 \text{ Int}[(c + d*x^2)^{(q+2)*((e + f*x^2)^r/(a + b*x^2))}, x], x] - \text{Simp}[d/(b*c - a*d)^2 \text{ Int}[(c + d*x^2)^q*(e + f*x^2)^r*(2*b*c - a*d + b*d*x^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, r\}, x] \&\& \text{LtQ}[q, -1]$
422. $\text{Int}[(((c_)+(d_)*(x_)^2)^{(q_)*((e_)+(f_)*(x_)^2)^{(r_))}/((a_)+(b_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[-d/(b*c - a*d) \text{ Int}[(c + d*x^2)^q*(e + f*x^2)^r, x], x] + \text{Simp}[b/(b*c - a*d) \text{ Int}[(c + d*x^2)^{(q+1)*((e + f*x^2)^r/(a + b*x^2))}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, r\}, x] \&\& \text{LeQ}[q, -1]$
423. $\text{Int}[(\text{Sqrt}[(c_)+(d_)*(x_)^2]*\text{Sqrt}[(e_)+(f_)*(x_)^2])/((a_)+(b_)*(x_)^2)^2, x_Symbol] \rightarrow \text{Simp}[x*\text{Sqrt}[c + d*x^2]*(\text{Sqrt}[e + f*x^2]/(2*a*(a + b*x^2))), x] + (\text{Simp}[(b^2*c*e - a^2*d*f)/(2*a*b^2) \text{ Int}[1/((a + b*x^2)*\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x] + \text{Simp}[d*(f/(2*a*b^2)) \text{ Int}[(a - b*x^2)/(\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x]$
424. $\text{Int}[1/(((a_)+(b_)*(x_)^2)^2*\text{Sqrt}[(c_)+(d_)*(x_)^2]*\text{Sqrt}[(e_)+(f_)*(x_)^2]), x_Symbol] \rightarrow \text{Simp}[b^2*x*\text{Sqrt}[c + d*x^2]*(\text{Sqrt}[e + f*x^2]/(2*a*(b*c - a*d)*(b*e - a*f)*(a + b*x^2))), x] + (\text{Simp}[(b^2*c*e + 3*a^2*d*f - 2*a*b*(d*e + c*f))/(2*a*(b*c - a*d)*(b*e - a*f)) \text{ Int}[1/((a + b*x^2)*\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x] - \text{Simp}[d*(f/(2*a*(b*c - a*d)*(b*e - a*f))) \text{ Int}[(a + b*x^2)/(\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x]$
425. $\text{Int}[((a_)+(b_)*(x_)^2)^{(p_)*((c_)+(d_)*(x_)^2)^{(q_)*((e_)+(f_)*(x_)^2)^{(r_))}, x_Symbol] \rightarrow \text{Simp}[d/b \text{ Int}[(a + b*x^2)^{(p+1)*(c + d*x^2)^{(q-1)*(e + f*x^2)^r}, x], x] + \text{Simp}[(b*c - a*d)/b \text{ Int}[(a + b*x^2)^p*(c + d*x^2)^{(q-1)*(e + f*x^2)^r}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, r\}, x] \&\& \text{ILtQ}[p, 0] \&\& \text{GtQ}[q, 0]$
426. $\text{Int}[((a_)+(b_)*(x_)^2)^{(p_)*((c_)+(d_)*(x_)^2)^{(q_)*((e_)+(f_)*(x_)^2)^{(r_))}, x_Symbol] \rightarrow \text{Simp}[b/(b*c - a*d) \text{ Int}[(a + b*x^2)^p*(c + d*x^2)^{(q+1)*(e + f*x^2)^r}, x], x] - \text{Simp}[d/(b*c - a*d) \text{ Int}[(a + b*x^2)^{(p+1)*(c + d*x^2)^q*(e + f*x^2)^r}, x], x] /; \text{FreeQ}[\{a, b, c,$

, d, e, f, q}, x] && ILtQ[p, 0] && LeQ[q, -1]

427. $\text{Int}[1/(\text{Sqrt}[(a_)+(b_)(x_)^2]*\text{Sqrt}[(c_)+(d_)(x_)^2]*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[c + d*x^2]*(\text{Sqrt}[a*((e + f*x^2)/(e*(a + b*x^2))])/(c*\text{Sqrt}[e + f*x^2]*\text{Sqrt}[a*((c + d*x^2)/(c*(a + b*x^2))])) \text{Subst}[\text{Int}[1/(\text{Sqrt}[1 - (b*c - a*d)*(x^2/c)]*\text{Sqrt}[1 - (b*e - a*f)*(x^2/e)]), x], x, x/\text{Sqrt}[a + b*x^2]], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x]$

428. $\text{Int}[\text{Sqrt}[(a_)+(b_)(x_)^2]/(\text{Sqrt}[(c_)+(d_)(x_)^2]*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[a*\text{Sqrt}[c + d*x^2]*(\text{Sqrt}[a*((e + f*x^2)/(e*(a + b*x^2))])/(c*\text{Sqrt}[e + f*x^2]*\text{Sqrt}[a*((c + d*x^2)/(c*(a + b*x^2))])) \text{Subst}[\text{Int}[1/((1 - b*x^2)*\text{Sqrt}[1 - (b*c - a*d)*(x^2/c)]*\text{Sqrt}[1 - (b*e - a*f)*(x^2/e)]), x], x, x/\text{Sqrt}[a + b*x^2]], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x]$

429. $\text{Int}[\text{Sqrt}[(c_)+(d_)(x_)^2]/(((a_)+(b_)(x_)^2)^{3/2}*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[c + d*x^2]*(\text{Sqrt}[a*((e + f*x^2)/(e*(a + b*x^2))])/(a*\text{Sqrt}[e + f*x^2]*\text{Sqrt}[a*((c + d*x^2)/(c*(a + b*x^2))])) \text{Subst}[\text{Int}[\text{Sqrt}[1 - (b*c - a*d)*(x^2/c)]/\text{Sqrt}[1 - (b*e - a*f)*(x^2/e)], x], x, x/\text{Sqrt}[a + b*x^2]], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x]$

430. $\text{Int}[(\text{Sqrt}[(a_)+(b_)(x_)^2]*\text{Sqrt}[(c_)+(d_)(x_)^2])/\text{Sqrt}[(e_)+(f_)(x_)^2], x_Symbol] \rightarrow \text{Simp}[d*x*\text{Sqrt}[a + b*x^2]*(\text{Sqrt}[e + f*x^2]/(2*f*\text{Sqrt}[c + d*x^2])), x] + (-\text{Simp}[c*((d*e - c*f)/(2*f)) \text{Int}[\text{Sqrt}[a + b*x^2]/((c + d*x^2)^{3/2}*\text{Sqrt}[e + f*x^2]), x], x] - \text{Simp}[(b*d*e - b*c*f - a*d*f)/(2*d*f) \text{Int}[\text{Sqrt}[c + d*x^2]/(\text{Sqrt}[a + b*x^2]*\text{Sqrt}[e + f*x^2]), x], x] + \text{Simp}[b*c*((d*e - c*f)/(2*d*f)) \text{Int}[1/(\text{Sqrt}[a + b*x^2]*\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] && \text{PosQ}[(d*e - c*f)/c]$

431. $\text{Int}[(\text{Sqrt}[(a_)+(b_)(x_)^2]*\text{Sqrt}[(c_)+(d_)(x_)^2])/\text{Sqrt}[(e_)+(f_)(x_)^2], x_Symbol] \rightarrow \text{Simp}[x*\text{Sqrt}[a + b*x^2]*(\text{Sqrt}[c + d*x^2]/(2*\text{Sqrt}[e + f*x^2])), x] + (\text{Simp}[e*((b*e - a*f)/(2*f)) \text{Int}[\text{Sqrt}[c + d*x^2]/(\text{Sqrt}[a + b*x^2]*(e + f*x^2)^{3/2}), x], x] - \text{Simp}[(b*d*e - b*c*f - a*d*f)/(2*f^2) \text{Int}[\text{Sqrt}[e + f*x^2]/(\text{Sqrt}[a + b*x^2]*\text{Sqrt}[c + d*x^2]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x]$

- 2]), x], x] + Simp[(b*e - a*f)*((d*e - 2*c*f)/(2*f^2)) Int[1/(Sqrt[a + b*x^2]*Sqrt[c + d*x^2]*Sqrt[e + f*x^2]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NegQ[(d*e - c*f)/c]
432. Int[(Sqrt[(a_) + (b_)*(x_)^2]*Sqrt[(c_) + (d_)*(x_)^2])/((e_) + (f_)*(x_)^2)^(3/2), x_Symbol] := Simp[b/f Int[Sqrt[c + d*x^2]/(Sqrt[a + b*x^2]*Sqrt[e + f*x^2]), x], x] - Simp[(b*e - a*f)/f Int[Sqrt[c + d*x^2]/(Sqrt[a + b*x^2]*(e + f*x^2)^(3/2)), x], x] /; FreeQ[{a, b, c, d, e, f}, x]
433. Int[((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)^(q_)*((e_) + (f_)*(x_)^2)^(r_), x_Symbol] := With[{u = ExpandIntegrand[(a + b*x^2)^p*(c + d*x^2)^q*(e + f*x^2)^r, x]}, Int[u, x] /; SumQ[u] /; FreeQ[{a, b, c, d, e, f, p, q, r}, x]
434. Int[((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)^(q_)*((e_) + (f_)*(x_)^2)^(r_), x_Symbol] := Unintegrable[(a + b*x^2)^p*(c + d*x^2)^q*(e + f*x^2)^r, x] /; FreeQ[{a, b, c, d, e, f, p, q, r}, x]
435. Int[(x_)^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)^(q_)*((e_) + (f_)*(x_)^2)^(r_), x_Symbol] := Simp[1/2 Subst[Int[x^(m - 1)/2*(a + b*x)^p*(c + d*x)^q*(e + f*x)^r, x], x, x^2], x] /; FreeQ[{a, b, c, d, e, f, p, q, r}, x] && IntegerQ[(m - 1)/2]
436. Int[((g_)*(x_))^(m_)*((b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)^(q_)*((e_) + (f_)*(x_)^2)^(r_), x_Symbol] := Simp[(g*x)^m*(b*x^2)^p/x^(m + 2*p) Int[x^(m + 2*p)*(c + d*x^2)^q*(e + f*x^2)^r, x], x] /; FreeQ[{b, c, d, e, f, g, m, p, q, r}, x]
437. Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)^(q_)*((e_) + (f_)*(x_)^2)^(r_), x_Symbol] := Int[ExpandIntegrand[(g*x)^m*(a + b*x^2)^p*(c + d*x^2)^q*(e + f*x^2)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m}, x] && IGtQ[p, -2] && IGtQ[q, 0] && IGtQ[r, 0]
438. Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_)*((c_) + (d_)*(x_)^2)^(q_)*((e_) + (f_)*(x_)^2)^(r_), x_Symbol] := With[{k = Denominator[m

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}], Simp[k/g Subst[Int[x^(k*(m + 1) - 1)*(a + b*(x^(k*2)/g^2))^p*(c
+ d*(x^(k*2)/g^2))^q*(e + f*(x^(k*2)/g^2))^r, x], x, (g*x)^(1/k)], x]]
/; FreeQ[{a, b, c, d, e, f, g, p, q, r}, x] && FractionQ[m]

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439.  $\text{Int}[(g_{\cdot})(x_{\cdot})^{(m_{\cdot})}((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}((c_{\cdot}) + (d_{\cdot})(x_{\cdot})^2)^{(q_{\cdot})}((e_{\cdot}) + (f_{\cdot})(x_{\cdot})^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(g_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)}(a_{\cdot} + b_{\cdot}x_{\cdot}^2)^{(p_{\cdot} + 1)}((c_{\cdot} + d_{\cdot}x_{\cdot}^2)^q/(2a_{\cdot}b_{\cdot}g_{\cdot}(p_{\cdot} + 1))), x] + \text{Simp}[1/(2a_{\cdot}b_{\cdot}(p_{\cdot} + 1)) \text{Int}[(g_{\cdot}x_{\cdot})^m(a_{\cdot} + b_{\cdot}x_{\cdot}^2)^{(p_{\cdot} + 1)}(c_{\cdot} + d_{\cdot}x_{\cdot}^2)^{(q_{\cdot} - 1)}\text{Simp}[c_{\cdot}(2b_{\cdot}e_{\cdot}(p_{\cdot} + 1) + (b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(m_{\cdot} + 1)) + d_{\cdot}(2b_{\cdot}e_{\cdot}(p_{\cdot} + 1) + (b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(m_{\cdot} + 2q_{\cdot} + 1))x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 0] \&\& !(EqQ[q, 1] \&\& \text{SimplerQ}[b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot}, b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot}])$
440.  $\text{Int}[(g_{\cdot})(x_{\cdot})^{(m_{\cdot})}((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}((c_{\cdot}) + (d_{\cdot})(x_{\cdot})^2)^{(q_{\cdot})}((e_{\cdot}) + (f_{\cdot})(x_{\cdot})^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[g_{\cdot}(b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(g_{\cdot}x_{\cdot})^{(m_{\cdot} - 1)}(a_{\cdot} + b_{\cdot}x_{\cdot}^2)^{(p_{\cdot} + 1)}((c_{\cdot} + d_{\cdot}x_{\cdot}^2)^{(q_{\cdot} + 1)})/(2b_{\cdot}(b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot})(p_{\cdot} + 1))), x] - \text{Simp}[g^2/(2b_{\cdot}(b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot})(p_{\cdot} + 1)) \text{Int}[(g_{\cdot}x_{\cdot})^{(m_{\cdot} - 2)}(a_{\cdot} + b_{\cdot}x_{\cdot}^2)^{(p_{\cdot} + 1)}(c_{\cdot} + d_{\cdot}x_{\cdot}^2)^q\text{Simp}[c_{\cdot}(b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(m_{\cdot} - 1) + (d_{\cdot}(b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(m_{\cdot} + 2q_{\cdot} + 1) - b_{\cdot}^2(c_{\cdot}f_{\cdot} - d_{\cdot}e_{\cdot})(p_{\cdot} + 1))x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, q\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 1]$
441.  $\text{Int}[(g_{\cdot})(x_{\cdot})^{(m_{\cdot})}((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}((c_{\cdot}) + (d_{\cdot})(x_{\cdot})^2)^{(q_{\cdot})}((e_{\cdot}) + (f_{\cdot})(x_{\cdot})^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(g_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)}(a_{\cdot} + b_{\cdot}x_{\cdot}^2)^{(p_{\cdot} + 1)}((c_{\cdot} + d_{\cdot}x_{\cdot}^2)^{(q_{\cdot} + 1)})/(a_{\cdot}g_{\cdot}^2(b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot})(p_{\cdot} + 1))), x] + \text{Simp}[1/(a_{\cdot}^2(b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot})(p_{\cdot} + 1)) \text{Int}[(g_{\cdot}x_{\cdot})^m(a_{\cdot} + b_{\cdot}x_{\cdot}^2)^{(p_{\cdot} + 1)}(c_{\cdot} + d_{\cdot}x_{\cdot}^2)^q\text{Simp}[c_{\cdot}(b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(m_{\cdot} + 1) + e_{\cdot}^2(b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot})(p_{\cdot} + 1) + d_{\cdot}(b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(m_{\cdot} + 2(p_{\cdot} + q_{\cdot} + 2) + 1))x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, q\}, x] \&\& \text{LtQ}[p, -1]$
442.  $\text{Int}[(g_{\cdot})(x_{\cdot})^{(m_{\cdot})}((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}((c_{\cdot}) + (d_{\cdot})(x_{\cdot})^2)^{(q_{\cdot})}((e_{\cdot}) + (f_{\cdot})(x_{\cdot})^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[e_{\cdot}(g_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)}(a_{\cdot} + b_{\cdot}x_{\cdot}^2)^{(p_{\cdot} + 1)}((c_{\cdot} + d_{\cdot}x_{\cdot}^2)^q/(a_{\cdot}g_{\cdot}(m_{\cdot} + 1))), x] - \text{Simp}[1/(a_{\cdot}g_{\cdot}^2(m_{\cdot} + 1)) \text{Int}[(g_{\cdot}x_{\cdot})^{(m_{\cdot} + 2)}(a_{\cdot} + b_{\cdot}x_{\cdot}^2)^p(c_{\cdot} + d_{\cdot}x_{\cdot}^2)^{(q_{\cdot} - 1)}\text{Simp}[c_{\cdot}(b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(m_{\cdot} + 1) + e_{\cdot}^2(b_{\cdot}c_{\cdot}(p_{\cdot} + 1) + a_{\cdot}d_{\cdot}q_{\cdot}) + d_{\cdot}((b_{\cdot}e_{\cdot} - a_{\cdot}f_{\cdot})(m_{\cdot} + 1) + b_{\cdot}e_{\cdot}^2(p_{\cdot} + q_{\cdot} + 1))x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& \text{GtQ}[q, 0] \&\& \text{LtQ}[m, -1] \&\& !(EqQ[q, 1] \&\& \text{SimplerQ}[e_{\cdot} + f_{\cdot}x^2, c_{\cdot} + d_{\cdot}x^2])$

443.  $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x)^q \cdot (e + f \cdot x^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[f \cdot (g \cdot x)^{m+1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^q / (b \cdot g \cdot (m + 2 \cdot (p + q + 1) + 1))], x] + \text{Simp}[1 / (b \cdot (m + 2 \cdot (p + q + 1) + 1)) \cdot \text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^{q-1} \cdot \text{Simp}[c \cdot (b \cdot e - a \cdot f) \cdot (m + 1) + b \cdot e \cdot 2 \cdot (p + q + 1) + (d \cdot (b \cdot e - a \cdot f) \cdot (m + 1) + f \cdot 2 \cdot q \cdot (b \cdot c - a \cdot d) + b \cdot e \cdot d \cdot 2 \cdot (p + q + 1)) \cdot x^2], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x] \&\& \text{GtQ}[q, 0] \&\& \text{!(EqQ}[q, 1] \&\& \text{SimplerQ}[e + f \cdot x^2, c + d \cdot x^2])]$
444.  $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x)^q \cdot (e + f \cdot x^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[f \cdot g \cdot (g \cdot x)^{m-1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q+1} / (b \cdot d \cdot (m + 2 \cdot (p + q + 1) + 1))], x] - \text{Simp}[g^2 / (b \cdot d \cdot (m + 2 \cdot (p + q + 1) + 1)) \cdot \text{Int}[(g \cdot x)^{m-2} \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q \cdot \text{Simp}[a \cdot f \cdot c \cdot (m - 1) + (a \cdot f \cdot d \cdot (m + 2 \cdot q + 1) + b \cdot (f \cdot c \cdot (m + 2 \cdot p + 1) - e \cdot d \cdot (m + 2 \cdot (p + q + 1) + 1))) \cdot x^2], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p, q\}, x] \&\& \text{GtQ}[m, 1]$
445.  $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x)^q \cdot (e + f \cdot x^2)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[e \cdot (g \cdot x)^{m+1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c + d \cdot x^2)^{q+1} / (a \cdot c \cdot g \cdot (m + 1))], x] + \text{Simp}[1 / (a \cdot c \cdot g^2 \cdot (m + 1)) \cdot \text{Int}[(g \cdot x)^{m+2} \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q \cdot \text{Simp}[a \cdot f \cdot c \cdot (m + 1) - e \cdot (b \cdot c + a \cdot d) \cdot (m + 2 + 1) - e^2 \cdot (b \cdot c \cdot p + a \cdot d \cdot q) - b \cdot e \cdot d \cdot (m + 2 \cdot (p + q + 2) + 1) \cdot x^2], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p, q\}, x] \&\& \text{LtQ}[m, -1]$
446.  $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x)^q \cdot (e + f \cdot x^2)^2 / ((c + d \cdot x)^2), x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(g \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (e + f \cdot x^2) / (c + d \cdot x^2)], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x]$
447.  $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x)^q \cdot (e + f \cdot x^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[e \cdot \text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q], x] + \text{Simp}[f / e^2 \cdot \text{Int}[(g \cdot x)^{m+2} \cdot (a + b \cdot x^2)^p \cdot (c + d \cdot x^2)^q], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p, q\}, x]$

448.  $\text{Int}[(g\_)(x\_)]^{(m\_)}((a\_)+(b\_)(x\_)^2)^{(p\_)}((c\_)+(d\_)(x\_)^2)^{(q\_)}((e\_)+(f\_)(x\_)^2)^{(r\_)}, x\_Symbol] \rightarrow \text{Simp}[e \text{ Int}[(g*x)^m(a+b*x^2)^p(c+d*x^2)^q(e+f*x^2)^{r-1}, x], x] + \text{Simp}[f/e^2 \text{ Int}[(g*x)^{(m+2)}(a+b*x^2)^p(c+d*x^2)^q(e+f*x^2)^{r-1}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p, q\}, x] \&\& \text{IGtQ}[r, 0]$
449.  $\text{Int}[(g\_)(x\_)]^{(m\_)}((a\_)+(b\_)(x\_)^2)^{(p\_)}((c\_)+(d\_)(x\_)^2)^{(q\_)}((e\_)+(f\_)(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[e \text{ Int}[(g*x)^m(a+b*x^2)^p(c+d*x^2)^q, x], x] + \text{Simp}[f*((g*x)^m/x^m) \text{ Int}[x^{(m+2)}(a+b*x^2)^p(c+d*x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p, q\}, x]$
450.  $\text{Int}[(g\_)(x\_)]^{(m\_)}((a\_)+(b\_)(x\_)^2)^{(p\_)}((c\_)+(d\_)(x\_)^2)^{(q\_)}((e\_)+(f\_)(x\_)^2)^{(r\_)}, x\_Symbol] \rightarrow \text{Unintegrable}[(g*x)^m(a+b*x^2)^p(c+d*x^2)^q(e+f*x^2)^r, x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p, q, r\}, x]$
451.  $\text{Int}[(c\_)+(d\_)(x\_)]/((a\_)+(b\_)(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[c^2/a \text{ Int}[1/(c-d*x), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b*c^2+a*d^2, 0]$
452.  $\text{Int}[(c\_)+(d\_)(x\_)]/((a\_)+(b\_)(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[c \text{ Int}[1/(a+b*x^2), x], x] + \text{Simp}[d \text{ Int}[x/(a+b*x^2), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c^2+a*d^2, 0]$
453.  $\text{Int}[(c\_)+(d\_)(x\_)]/((a\_)+(b\_)(x\_)^2)^{(3/2)}, x\_Symbol] \rightarrow \text{Simp}[-(a*d-b*c*x)/(a*b*\text{Sqrt}[a+b*x^2]), x] /; \text{FreeQ}\{a, b, c, d\}, x]$
454.  $\text{Int}[(c\_)+(d\_)(x\_)]*((a\_)+(b\_)(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(a*d-b*c*x)/(2*a*b*(p+1))*(a+b*x^2)^{(p+1)}, x] + \text{Simp}[c*((2*p+3)/(2*a*(p+1))) \text{ Int}[(a+b*x^2)^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -3/2]$
455.  $\text{Int}[(c\_)+(d\_)(x\_)]*((a\_)+(b\_)(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[d*((a+b*x^2)^{(p+1)})/(2*b*(p+1)), x] + \text{Simp}[c \text{ Int}[(a+b*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, p\}, x] \&\& \text{!LeQ}[p, -1]$

456. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
 Int[(c + d*x)^(n + p)*(a/c + (b/d)*x)^p, x] /; FreeQ[{a, b, c, d, n,  
 p}, x] && EqQ[b*c^2 + a*d^2, 0] && (IntegerQ[p] || (GtQ[a, 0] && GtQ[c,  
 0] && !IntegerQ[n]))`
457. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Sim  
 p[d*(c + d*x)*((a + b*x^2)^(p + 1)/(b*(p + 1))), x] - Simp[d^2*((p + 2  
 )/(b*(p + 1))) Int[(a + b*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d,  
 p}, x] && EqQ[b*c^2 + a*d^2, 0] && LtQ[p, -1]`
458. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
 Simp[d*(c + d*x)^(n - 1)*((a + b*x^2)^(p + 1)/(b*(p + 1))), x] /; Free  
 Q[{a, b, c, d, n, p}, x] && EqQ[b*c^2 + a*d^2, 0] && EqQ[n + p, 0]`
459. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
 Simp[d*(c + d*x)^(n - 1)*((a + b*x^2)^(p + 1)/(b*(n + 2*p + 1))), x] +  
 Simp[2*c*(Simplify[n + p]/(n + 2*p + 1)) Int[(c + d*x)^(n - 1)*(a +  
 b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, n, p}, x] && EqQ[b*c^2 + a*d^2  
 , 0] && IGtQ[Simplify[n + p], 0]`
460. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
 Simp[(-d)*(c + d*x)^n*((a + b*x^2)^(p + 1)/(b*c*n)), x] /; FreeQ[{a, b  
 , c, d, n, p}, x] && EqQ[b*c^2 + a*d^2, 0] && EqQ[n + 2*p + 2, 0]`
461. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
 Simp[(-d)*(c + d*x)^n*((a + b*x^2)^(p + 1)/(2*b*c*(n + p + 1))), x] +  
 Simp[Simplify[n + 2*p + 2]/(2*c*(n + p + 1)) Int[(c + d*x)^(n + 1)*(  
 a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, n, p}, x] && EqQ[b*c^2 + a*  
 d^2, 0] && ILtQ[Simplify[n + 2*p + 2], 0] && (LtQ[n, -1] || GtQ[n + p,  
 0])`
462. `Int[((c_) + (d_)*(x_))^(n_)/((a_) + (b_)*(x_)^2)^(3/2), x_Symbol] :=  
 Simp[(-2^(n - 1))*d*c^(n - 2)*((c + d*x)/(b*Sqrt[a + b*x^2])), x] + S  
 imp[d^2/b Int[(1/Sqrt[a + b*x^2])*ExpandToSum[(2^(n - 1))*c^(n - 1) -  
 (c + d*x)^(n - 1)]/(c - d*x), x], x], x] /; FreeQ[{a, b, c, d}, x] &&`

EqQ[b\*c^2 + a\*d^2, 0] && IGtQ[n, 2]

463.  $\text{Int}[\left((c\_)+(d\_)*(x\_)\right)^{(n\_)}*\left((a\_)+(b\_)*(x\_)^2\right)^{(p\_)}, x\_Symbol] \rightarrow$   
 $\text{Simp}\left[\left(-(-c)^{-n-2}\right)*d^{(2*n+3)}*\left(\text{Sqrt}[a+b*x^2]/\left(2^{(n+1)}*b^{(n+2)}\right)*(c+d*x)\right)\right], x] - \text{Simp}\left[d^{(2*n+2)}/b^{(n+1)} \text{Int}\left[\left(1/\text{Sqrt}[a+b*x^2]\right)*\text{ExpandToSum}\left[\left(2^{(-n-1)}*(-c)^{-n-1}\right)-(-c+d*x)^{-n-1}\right]/(c+d*x), x], x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{EqQ}[n + p, -3/2]$
464.  $\text{Int}[\left((c\_)+(d\_)*(x\_)\right)^{(n\_)}*\left((a\_)+(b\_)*(x\_)^2\right)^{(p\_)}, x\_Symbol] \rightarrow$   
 $\text{Int}\left[\left(a+b*x^2\right)^{(n+p)}/\left(a/c+b*(x/d)\right)^n, x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{IntegerQ}[n] \&\& \text{RationalQ}[p] \&\& (\text{LtQ}[0, -n, p] \parallel \text{LtQ}[p, -n, 0]) \&\& \text{NeQ}[n, 2] \&\& \text{NeQ}[n, -1]$
465.  $\text{Int}[\left((c\_)+(d\_)*(x\_)\right)^{(n\_)}*\left((a\_)+(b\_)*(x\_)^2\right)^{(p\_)}, x\_Symbol] \rightarrow$   
 $\text{Simp}\left[\left(c+d*x\right)^{(n+1)}*\left(a+b*x^2\right)^p/\left(d*(n+p+1)\right)\right], x] - \text{Simp}\left[b*(p/\left(d^2*(n+p+1)\right)) \text{Int}\left[\left(c+d*x\right)^{(n+2)}*\left(a+b*x^2\right)^{(p-1)}, x], x\right] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{GtQ}[p, 0] \&\& (\text{LtQ}[n, -2] \parallel \text{EqQ}[n + 2*p + 1, 0]) \&\& \text{NeQ}[n + p + 1, 0] \&\& \text{IntegerQ}[2*p]$
466.  $\text{Int}[\left((c\_)+(d\_)*(x\_)\right)^{(n\_)}*\left((a\_)+(b\_)*(x\_)^2\right)^{(p\_)}, x\_Symbol] \rightarrow$   
 $\text{Simp}\left[\left(c+d*x\right)^{(n+1)}*\left(a+b*x^2\right)^p/\left(d*(n+2*p+1)\right)\right], x] - \text{Simp}\left[2*b*c*(p/\left(d^2*(n+2*p+1)\right)) \text{Int}\left[\left(c+d*x\right)^{(n+1)}*\left(a+b*x^2\right)^{(p-1)}, x], x\right] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{GtQ}[p, 0] \&\& (\text{LeQ}[-2, n, 0] \parallel \text{EqQ}[n + p + 1, 0]) \&\& \text{NeQ}[n + 2*p + 1, 0] \&\& \text{IntegerQ}[2*p]$
467.  $\text{Int}[\left((c\_)+(d\_)*(x\_)\right)^{(n\_)}*\left((a\_)+(b\_)*(x\_)^2\right)^{(p\_)}, x\_Symbol] \rightarrow$   
 $\text{Simp}\left[(-c)*(c+d*x)^n*\left(a+b*x^2\right)^{(p+1)}/\left(2*a*d*(p+1)\right)\right], x] + \text{Simp}\left[c*\left((n+2*p+2)/(2*a*(p+1))\right) \text{Int}\left[\left(c+d*x\right)^{(n-1)}*\left(a+b*x^2\right)^{(p+1)}, x], x\right] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{LtQ}[p, -1] \&\& \text{LtQ}[0, n, 1] \&\& \text{IntegerQ}[2*p]$
468.  $\text{Int}[\left((c\_)+(d\_)*(x\_)\right)^{(n\_)}*\left((a\_)+(b\_)*(x\_)^2\right)^{(p\_)}, x\_Symbol] \rightarrow$   
 $\text{Simp}\left[d*(c+d*x)^{(n-1)}*\left(a+b*x^2\right)^{(p+1)}/\left(b*(p+1)\right)\right], x] - \text{Simp}\left[d^2*\left((n+p)/(b*(p+1))\right) \text{Int}\left[\left(c+d*x\right)^{(n-2)}*\left(a+b*x^2\right)^{(p+1)}, x], x\right] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{IntegerQ}[n] \&\& \text{IntegerQ}[p]$

```
x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c^2 + a*d^2, 0] && LtQ[p, -
1] && GtQ[n, 1] && IntegerQ[2*p]
```

```
469. Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=
Simp[d*(c + d*x)^(n - 1)*((a + b*x^2)^(p + 1)/(b*(n + 2*p + 1))), x] +
Simp[2*c*((n + p)/(n + 2*p + 1)) Int[(c + d*x)^(n - 1)*(a + b*x^2)^
p, x], x] /; FreeQ[{a, b, c, d, p}, x] && EqQ[b*c^2 + a*d^2, 0] && GtQ
[n, 0] && NeQ[n + 2*p + 1, 0] && IntegerQ[2*p]
```

```
470. Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=
Simp[(-d)*(c + d*x)^n*((a + b*x^2)^(p + 1)/(2*b*c*(n + p + 1))), x] +
Simp[(n + 2*p + 2)/(2*c*(n + p + 1)) Int[(c + d*x)^(n + 1)*(a + b*x^
2)^p, x], x] /; FreeQ[{a, b, c, d, p}, x] && EqQ[b*c^2 + a*d^2, 0] &&
LtQ[n, 0] && NeQ[n + p + 1, 0] && IntegerQ[2*p]
```

```
471. Int[1/(Sqrt[(c_) + (d_)*(x_)]*Sqrt[(a_) + (b_)*(x_)^2]), x_Symbol] :
> Simp[2*d Subst[Int[1/(2*b*c + d^2*x^2), x], x, Sqrt[a + b*x^2]/Sqr
t[c + d*x]], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c^2 + a*d^2, 0]
```

```
472. Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=
Simp[a^(p + 1)*c^(n - 1)*(((c - d*x)/c)^(p + 1)/(a/c + b*(x/d))^(p + 1
)) Int[(1 + d*(x/c))^(n + p)*(a/c + (b/d)*x)^p, x], x] /; FreeQ[{a,
b, c, d, n}, x] && EqQ[b*c^2 + a*d^2, 0] && (IntegerQ[n] || GtQ[c, 0])
&& GtQ[a, 0] && !(IntegerQ[n] && (IntegerQ[3*p] || IntegerQ[4*p]))
```

```
473. Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=
Simp[c^(n - 1)*((a + b*x^2)^(p + 1)/((1 + d*(x/c))^(p + 1)*(a/c + (b*x
)/d)^(p + 1))) Int[(1 + d*(x/c))^(n + p)*(a/c + (b/d)*x)^p, x], x] /
; FreeQ[{a, b, c, d, n}, x] && EqQ[b*c^2 + a*d^2, 0] && (IntegerQ[n] |
| GtQ[c, 0]) && !GtQ[a, 0] && !(IntegerQ[n] && (IntegerQ[3*p] || Int
egerQ[4*p]))
```

```
474. Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=
Simp[c^IntPart[n]*((c + d*x)^FracPart[n]/(1 + d*(x/c))^FracPart[n])
Int[(1 + d*(x/c))^n*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, n}, x]
&& EqQ[b*c^2 + a*d^2, 0] && !(IntegerQ[n] || GtQ[c, 0])
```

475. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
Simp[d*n*c^(n - 1)*((a + b*x^2)^(p + 1)/(2*b*(p + 1))), x] + Int[ExpandIntegrand[((c + d*x)^n - d*n*c^(n - 1)*x)*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[p, 0] && IGtQ[n, 0] && LeQ[n, p]`
476. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
Int[ExpandIntegrand[(c + d*x)^n*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, n}, x] && IGtQ[p, 0]`
477. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
Simp[a^p Int[ExpandIntegrand[(c + d*x)^n*(1 - Rt[-b/a, 2]*x)^p*(1 + Rt[-b/a, 2]*x)^p, x], x] /; FreeQ[{a, b, c, d}, x] && ILtQ[p, 0] && IntegerQ[n] && NiceSqrtQ[-b/a] && !FractionalPowerFactorQ[Rt[-b/a, 2]]`
478. `Int[((c_) + (d_)*(x_))^(n_)/((a_) + (b_)*(x_)^2), x_Symbol] := Int[ExpandIntegrand[(c + d*x)^n/(a + b*x^2), x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[n, 1]`
479. `Int[1/(((c_) + (d_)*(x_))*((a_) + (b_)*(x_)^2)), x_Symbol] := Simp[d*(Log[RemoveContent[c + d*x, x]]/(b*c^2 + a*d^2)), x] + Simp[b/(b*c^2 + a*d^2) Int[(c - d*x)/(a + b*x^2), x], x] /; FreeQ[{a, b, c, d}, x]`
480. `Int[((c_) + (d_)*(x_))^(n_)/((a_) + (b_)*(x_)^2), x_Symbol] := Simp[d*((c + d*x)^(n + 1)/((n + 1)*(b*c^2 + a*d^2))), x] + Simp[b/(b*c^2 + a*d^2) Int[(c + d*x)^(n + 1)*((c - d*x)/(a + b*x^2)), x], x] /; FreeQ[{a, b, c, d}, x] && ILtQ[n, -1]`
481. `Int[((c_) + (d_)*(x_))^(n_)/((a_) + (b_)*(x_)^2), x_Symbol] := Simp[d*((c + d*x)^(n - 1)/(b*(n - 1))), x] + Simp[1/b Int[(c + d*x)^(n - 2)*(Simp[b*c^2 - a*d^2 + 2*b*c*d*x, x]/(a + b*x^2)), x], x] /; FreeQ[{a, b, c, d}, x] && GtQ[n, 1]`
482. `Int[((c_) + (d_)*(x_))^(n_)/((a_) + (b_)*(x_)^2), x_Symbol] := Simp[d*((c + d*x)^(n + 1)/((n + 1)*(b*c^2 + a*d^2))), x] + Simp[b/(b*c^2 + a*d^2) Int[(c + d*x)^(n + 1)*((c - d*x)/(a + b*x^2)), x], x] /; Free`



$Q[\{a, b, c, d, n\}, x] \ \&\& \text{LtQ}[n, -1]$

483.  $\text{Int}[\text{Sqrt}[(c\_)+(d\_)(x\_)]/((a\_)+(b\_)(x\_)^2), x\_Symbol] \ :> \text{Simp}[2*d \ \text{Subst}[\text{Int}[x^2/(b*c^2 + a*d^2 - 2*b*c*x^2 + b*x^4), x], x, \text{Sqrt}[c + d*x]], x] \ /; \text{FreeQ}[\{a, b, c, d\}, x]$

484.  $\text{Int}[1/(\text{Sqrt}[(c\_)+(d\_)(x\_)]*((a\_)+(b\_)(x\_)^2)), x\_Symbol] \ :> \text{Simp}[2*d \ \text{Subst}[\text{Int}[1/(b*c^2 + a*d^2 - 2*b*c*x^2 + b*x^4), x], x, \text{Sqrt}[c + d*x]], x] \ /; \text{FreeQ}[\{a, b, c, d\}, x]$

485.  $\text{Int}[((c\_)+(d\_)(x\_))^n/((a\_)+(b\_)(x\_)^2), x\_Symbol] \ :> \text{Int}[\text{ExpandIntegrand}[(c + d*x)^n, 1/(a + b*x^2), x], x] \ /; \text{FreeQ}[\{a, b, c, d, n\}, x] \ \&\& \ !\text{IntegerQ}[2*n]$

486.  $\text{Int}[((c\_)+(d\_)(x\_))^n*((a\_)+(b\_)(x\_)^2)^p, x\_Symbol] \ :> \text{Simp}[(c + d*x)^{n+1}*(a*d - b*c*x)*((a + b*x^2)^p/((n+1)*(b*c^2 + a*d^2))), x] - \text{Simp}[2*a*b*(p/((n+1)*(b*c^2 + a*d^2))) \ \text{Int}[(c + d*x)^{n+2}*(a + b*x^2)^{p-1}, x], x] \ /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[n + 2*p + 2, 0] \ \&\& \ \text{GtQ}[p, 0]$

487.  $\text{Int}[((c\_)+(d\_)(x\_))^n*((a\_)+(b\_)(x\_)^2)^p, x\_Symbol] \ :> \text{Simp}[(c + d*x)^{n-1}*(a*d - b*c*x)*((a + b*x^2)^{p+1}/(2*a*b*(p+1))), x] + \text{Simp}[(2*p + 3)*((b*c^2 + a*d^2)/(2*a*b*(p+1))) \ \text{Int}[(c + d*x)^{n-2}*(a + b*x^2)^{p+1}, x], x] \ /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[n + 2*p + 2, 0] \ \&\& \ \text{LtQ}[p, -1]$

488.  $\text{Int}[1/(((c\_)+(d\_)(x\_))*\text{Sqrt}[(a\_)+(b\_)(x\_)^2]), x\_Symbol] \ :> -\text{Subst}[\text{Int}[1/(b*c^2 + a*d^2 - x^2), x], x, (a*d - b*c*x)/\text{Sqrt}[a + b*x^2]] \ /; \text{FreeQ}[\{a, b, c, d\}, x]$

489.  $\text{Int}[((c\_)+(d\_)(x\_))^n*((a\_)+(b\_)(x\_)^2)^p, x\_Symbol] \ :> \text{With}[\{q = \text{Rt}[(-a)*b, 2]\}, \text{Simp}[(q - b*x)*(c + d*x)^{n+1}*((a + b*x^2)^p/((n+1)*(b*c + d*q)*((b*c + d*q)*((q + b*x)/((b*c - d*q)*(-q + b*x))))^p)*\text{Hypergeometric2F1}[n + 1, -p, n + 2, 2*b*q*((c + d*x)/((b*c - d*q)*(q - b*x)))]], x]] \ /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \ \&\& \ \text{EqQ}[n + 2*p + 2, 0]$

490.  $\text{Int}[(c + d \cdot x)^n \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[(-x) \cdot (c + d \cdot x)^n \cdot (a + b \cdot x^2)^{p+1} / (2 \cdot a \cdot (p+1)), x] - \text{Simp}[c \cdot (n / (2 \cdot a \cdot (p+1))) \text{Int}[(c + d \cdot x)^{n-1} \cdot (a + b \cdot x^2)^{p+1}, x], x]$   
 $/; \text{FreeQ}\{a, b, c, d, n, p\}, x \} \&\& \text{EqQ}[n + 2 \cdot p + 3, 0] \&\& \text{LtQ}[p, -1]$
491.  $\text{Int}[(c + d \cdot x)^n \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[d \cdot (c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^{p+1} / ((n+1) \cdot (b \cdot c^2 + a \cdot d^2)), x] + \text{Simp}[b \cdot (c / (b \cdot c^2 + a \cdot d^2)) \text{Int}[(c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^p, x], x]$   
 $/; \text{FreeQ}\{a, b, c, d, n, p\}, x \} \&\& \text{EqQ}[n + 2 \cdot p + 3, 0]$
492.  $\text{Int}[(c + d \cdot x)^n \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[(c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^p / (d \cdot (n+1)), x] - \text{Simp}[2 \cdot b \cdot (p / (d \cdot (n+1))) \text{Int}[x \cdot (c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^{p-1}, x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x \} \&\& \text{GtQ}[p, 0] \&\& (\text{IntegerQ}[p] \mid \mid \text{LtQ}[n, -1]) \&\& \text{NeQ}[n, -1] \&\& !\text{ILtQ}[n + 2 \cdot p + 1, 0] \&\& \text{IntQuadraticQ}[a, 0, b, c, d, n, p, x]$
493.  $\text{Int}[(c + d \cdot x)^n \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[(c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^p / (d \cdot (n + 2 \cdot p + 1)), x] + \text{Simp}[2 \cdot (p / (d \cdot (n + 2 \cdot p + 1))) \text{Int}[(c + d \cdot x)^n \cdot (a + b \cdot x^2)^{p-1} \cdot (a \cdot d - b \cdot c \cdot x), x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x \} \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[n + 2 \cdot p + 1, 0] \&\& (!\text{RationalQ}[n] \mid \mid \text{LtQ}[n, 1]) \&\& !\text{ILtQ}[n + 2 \cdot p, 0] \&\& \text{IntQuadraticQ}[a, 0, b, c, d, n, p, x]$
494.  $\text{Int}[(c + d \cdot x)^n \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[(-x) \cdot (c + d \cdot x)^n \cdot (a + b \cdot x^2)^{p+1} / (2 \cdot a \cdot (p+1)), x] + \text{Simp}[1 / (2 \cdot a \cdot (p+1)) \text{Int}[(c + d \cdot x)^{n-1} \cdot (a + b \cdot x^2)^{p+1} \cdot (c \cdot (2 \cdot p + 3) + d \cdot (n + 2 \cdot p + 3) \cdot x), x], x] /; \text{FreeQ}\{a, b, c, d\}, x \} \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[n, 0] \&\& (\text{LtQ}[n, 1] \mid \mid (\text{ILtQ}[n + 2 \cdot p + 3, 0] \&\& \text{NeQ}[n, 2])) \&\& \text{IntQuadraticQ}[a, 0, b, c, d, n, p, x]$
495.  $\text{Int}[(c + d \cdot x)^n \cdot (a + b \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[(a \cdot d - b \cdot c \cdot x) \cdot (c + d \cdot x)^{n-1} \cdot (a + b \cdot x^2)^{p+1} / (2 \cdot a \cdot b \cdot (p+1)), x] - \text{Simp}[1 / (2 \cdot a \cdot b \cdot (p+1)) \text{Int}[(c + d \cdot x)^{n-2} \cdot (a + b \cdot x^2)^{p+1} \cdot \text{Simp}[a \cdot d^2 \cdot (n-1) - b \cdot c^2 \cdot (2 \cdot p + 3) - b \cdot c \cdot d \cdot (n + 2 \cdot p + 2) \cdot x, x], x], x] /; \text{FreeQ}\{a, b, c, d\}, x \} \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[n, 1] \&\& \text{Int}$

QuadraticQ[a, 0, b, c, d, n, p, x]

496. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
Simp[(-(a*d + b*c*x))*(c + d*x)^(n + 1)*((a + b*x^2)^(p + 1)/(2*a*(p +  
1)*(b*c^2 + a*d^2))), x] + Simp[1/(2*a*(p + 1)*(b*c^2 + a*d^2)) Int  
[(c + d*x)^n*(a + b*x^2)^(p + 1)*Simp[b*c^2*(2*p + 3) + a*d^2*(n + 2*p  
+ 3) + b*c*d*(n + 2*p + 4)*x, x], x] /; FreeQ[{a, b, c, d, n}, x]  
&& LtQ[p, -1] && IntQuadraticQ[a, 0, b, c, d, n, p, x]`
497. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
Simp[d*(c + d*x)^(n - 1)*((a + b*x^2)^(p + 1)/(b*(n + 2*p + 1))), x] +  
Simp[1/(b*(n + 2*p + 1)) Int[(c + d*x)^(n - 2)*(a + b*x^2)^p*Simp[b  
*c^2*(n + 2*p + 1) - a*d^2*(n - 1) + 2*b*c*d*(n + p)*x, x], x] /;  
FreeQ[{a, b, c, d, n, p}, x] && If[RationalQ[n], GtQ[n, 1], SumSimpler  
Q[n, -2]] && NeQ[n + 2*p + 1, 0] && IntQuadraticQ[a, 0, b, c, d, n, p,  
x]`
498. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
Simp[d*(c + d*x)^(n + 1)*((a + b*x^2)^(p + 1)/((n + 1)*(b*c^2 + a*d^2)  
)), x] + Simp[b/((n + 1)*(b*c^2 + a*d^2)) Int[(c + d*x)^(n + 1)*(a +  
b*x^2)^p*(c*(n + 1) - d*(n + 2*p + 3)*x), x], x] /; FreeQ[{a, b, c, d,  
n, p}, x] && NeQ[n, -1] && ((LtQ[n, -1] && IntQuadraticQ[a, 0, b, c,  
d, n, p, x]) || (SumSimplerQ[n, 1] && IntegerQ[p]) || ILtQ[Simplify[n  
+ 2*p + 3], 0])`
499. `Int[1/(((c_) + (d_)*(x_))*((a_) + (b_)*(x_)^2)^(1/4)), x_Symbol] :=  
With[{q = Rt[-a, 4]}, Simp[(1/(2*d*q))*ArcTan[c*q*((a + b*x^2)^(1/4)/(  
q^2*(c + d*x) - c*Sqrt[a + b*x^2]))], x] - Simp[(1/(2*d*q))*ArcTanh[c*  
q*((a + b*x^2)^(1/4)/(q^2*(c + d*x) + c*Sqrt[a + b*x^2]))], x]] /; Fre  
eQ[{a, b, c, d}, x] && EqQ[b*c^2 + 2*a*d^2, 0] && NegQ[a]`
500. `Int[1/(((c_) + (d_)*(x_))*((a_) + (b_)*(x_)^2)^(1/4)), x_Symbol] :=  
Simp[-(a - b*x^2)^(1/4)/(a + b*x^2)^(1/4) Int[1/((c + d*x)*(-a - b*x  
^2)^(1/4)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c^2 + 2*a*d^2, 0  
] && PosQ[a]`

501. `Int[1/(((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(1/3)), x_Symbol] :=  
 With[{q = Rt[6*b^2*(d^2/c^2), 3]}, Simp[(-Sqrt[3])*b*d*(ArcTan[1/Sqrt[  
 3] + 2*b*((c - d*x)/(Sqrt[3]*c*q*(a + b*x^2)^(1/3)))]/(c^2*q^2)), x] +  
 (-Simp[3*b*d*(Log[c + d*x]/(2*c^2*q^2)), x] + Simp[3*b*d*(Log[b*c - b  
 *d*x - c*q*(a + b*x^2)^(1/3)]/(2*c^2*q^2)), x])] /; FreeQ[{a, b, c, d}  
 , x] && EqQ[b*c^2 - 3*a*d^2, 0]`
502. `Int[1/(((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(1/3)), x_Symbol] :=  
 Simp[a^(1/3) Int[1/((c + d*x)*(1 - 3*d*(x/c))^(1/3)*(1 + 3*d*(x/c))^(  
 1/3)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c^2 + 9*a*d^2, 0] &&  
 GtQ[a, 0]`
503. `Int[1/(((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(1/3)), x_Symbol] :=  
 Simp[(1 + b*(x^2/a))^(1/3)/(a + b*x^2)^(1/3) Int[1/((c + d*x)*(1 + b  
 *(x^2/a))^(1/3)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[b*c^2 + 9*a*  
 d^2, 0] && !GtQ[a, 0]`
504. `Int[((a_) + (b_.)*(x_)^2)^(p_)/((c_) + (d_.)*(x_)), x_Symbol] := Simp[  
 c Int[(a + b*x^2)^p/(c^2 - d^2*x^2), x], x] - Simp[d Int[x*((a + b  
 *x^2)^p/(c^2 - d^2*x^2)), x], x] /; FreeQ[{a, b, c, d, p}, x]`
505. `Int[((c_) + (d_.)*(x_))^(n_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] :=  
 Int[ExpandIntegrand[(a + b*x^2)^p, (c/(c^2 - d^2*x^2) - d*(x/(c^2 - d^  
 2*x^2)))]^(n), x], x] /; FreeQ[{a, b, c, d, p}, x] && ILtQ[n, -1] && P  
 osQ[a/b]`
506. `Int[((c_) + (d_.)*(x_))^(n_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] :=  
 With[{q = Rt[-a/b, 2]}, Simp[(-a + b*x^2)^p*((1/(c + d*x))^(2*p)/(d*  
 (1 - (c - d*q)/(c + d*x))^p*(1 - (c + d*q)/(c + d*x))^p) Subst[Int[  
 (1 - (c - d*q)*x)^p*((1 - (c + d*q)*x)^p/x^(n + 2*p + 2)), x], x, 1/(c  
 + d*x)], x] /; FreeQ[{a, b, c, d, p}, x] && ILtQ[n, -1] && NegQ[a/b]`
507. `Int[Sqrt[(c_) + (d_.)*(x_)]/Sqrt[(a_) + (b_.)*(x_)^2], x_Symbol] := Si  
 mp[2/d Subst[Int[x^2/Sqrt[(b*c^2 + a*d^2)/d^2 - 2*b*c*(x^2/d^2) + b*  
 (x^4/d^2)], x], x, Sqrt[c + d*x]], x] /; FreeQ[{a, b, c, d}, x] && Pos  
 Q[b/a]`

508. `Int[Sqrt[(c_) + (d_)*(x_)]/Sqrt[(a_) + (b_)*(x_)^2], x_Symbol] := With[{q = Rt[-b/a, 2]}, Simp[-2*(Sqrt[c + d*x]/(Sqrt[a]*q*Sqrt[q*((c + d*x)/(d + c*q))])) Subst[Int[Sqrt[1 - 2*d*(x^2/(d + c*q))]/Sqrt[1 - x^2], x], x, Sqrt[(1 - q*x)/2]], x]] /; FreeQ[{a, b, c, d}, x] && NegQ[b/a] && GtQ[a, 0]`
509. `Int[Sqrt[(c_) + (d_)*(x_)]/Sqrt[(a_) + (b_)*(x_)^2], x_Symbol] := Simp[Sqrt[1 + b*(x^2/a)]/Sqrt[a + b*x^2] Int[Sqrt[c + d*x]/Sqrt[1 + b*(x^2/a)], x], x] /; FreeQ[{a, b, c, d}, x] && NegQ[b/a] && !GtQ[a, 0]`
510. `Int[1/(Sqrt[(c_) + (d_)*(x_)]*Sqrt[(a_) + (b_)*(x_)^2]), x_Symbol] := Simp[2/d Subst[Int[1/Sqrt[(b*c^2 + a*d^2)/d^2 - 2*b*c*(x^2/d^2) + b*(x^4/d^2)], x], x, Sqrt[c + d*x]], x] /; FreeQ[{a, b, c, d}, x] && PosQ[b/a]`
511. `Int[1/(Sqrt[(c_) + (d_)*(x_)]*Sqrt[(a_) + (b_)*(x_)^2]), x_Symbol] := With[{q = Rt[-b/a, 2]}, Simp[-2*(Sqrt[q*((c + d*x)/(d + c*q))]/(Sqrt[a]*q*Sqrt[c + d*x])) Subst[Int[1/(Sqrt[1 - 2*d*(x^2/(d + c*q))]*Sqrt[1 - x^2]), x], x, Sqrt[(1 - q*x)/2]], x]] /; FreeQ[{a, b, c, d}, x] && NegQ[b/a] && GtQ[a, 0]`
512. `Int[1/(Sqrt[(c_) + (d_)*(x_)]*Sqrt[(a_) + (b_)*(x_)^2]), x_Symbol] := Simp[Sqrt[1 + b*(x^2/a)]/Sqrt[a + b*x^2] Int[1/(Sqrt[c + d*x]*Sqrt[1 + b*(x^2/a)]), x], x] /; FreeQ[{a, b, c, d}, x] && NegQ[b/a] && !GtQ[a, 0]`
513. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Simp[a^p Int[(c + d*x)^n*(1 + Rt[-b/a, 2]*x)^p*(1 - Rt[-b/a, 2]*x)^p, x], x] /; FreeQ[{a, b, c, d, n, p}, x] && GtQ[a, 0] && NegQ[b/a]`
514. `Int[((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{q = Rt[-a/b, 2]}, Simp[(a + b*x^2)^p/(d*(1 - (c + d*x)/(c - d*q)))^p*(1 - (c + d*x)/(c + d*q))^p] Subst[Int[x^n*Simp[1 - x/(c + d*q), x]^p*Simp[1 - x/(c - d*q), x]^p, x], x, c + d*x], x]] /; FreeQ[{a, b, c, d, n, p}, x] && NeQ[b*c^2 + a*d^2, 0]`

515. `Int[((c_) + (d_)*(u_))^(n_)*((a_) + (b_)*(u_)^2)^(p_), x_Symbol] :> Simp[1/Coefficient[u, x, 1] Subst[Int[(c + d*x)^n*(a + b*x^2)^p, x], x, u], x] /; FreeQ[{a, b, c, d, n, p}, x] && LinearQ[u, x] && NeQ[u, x]`
516. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[(e*x)^m*(c + d*x)^(n + p)*(a/c + (b/d)*x)^p, x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && EqQ[b*c^2 + a*d^2, 0] && (IntegerQ[p] || (GtQ[a, 0] && GtQ[c, 0] && !IntegerQ[n]))`
517. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Simp[2*(e^m/d^(m + 2*p + 1)) Subst[Int[x^(2*n + 1)*(-c + x^2)^m*(b*c^2 + a*d^2 - 2*b*c*x^2 + b*x^4)^p, x], x, Sqrt[c + d*x]], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && ILtQ[m, 0] && IntegerQ[n + 1/2]`
518. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Simp[2/e^(n + 2*p + 1) Subst[Int[x^(2*m + 1)*(e*c + d*x^2)^n*(a*e^2 + b*x^4)^p, x], x, Sqrt[e*x]], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && ILtQ[n, 0] && IntegerQ[m + 1/2]`
519. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{Qx = PolynomialQuotient[(a + b*x^2)^p, c + d*x, x], R = PolynomialRemainder[(a + b*x^2)^p, c + d*x, x]}, Simp[(-R)*(e*x)^(m + 1)*((c + d*x)^(n + 1)/(c*e*(n + 1))), x] + Simp[1/(c*(n + 1)) Int[(e*x)^m*(c + d*x)^(n + 1)*ExpandToSum[c*(n + 1)*Qx + R*(m + n + 2), x], x], x] /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[p, 0] && LtQ[n, -1] && !IntegerQ[m]`
520. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{Qx = PolynomialQuotient[(a + b*x^2)^p, e*x, x], R = PolynomialRemainder[(a + b*x^2)^p, e*x, x]}, Simp[R*(e*x)^(m + 1)*((c + d*x)^(n + 1)/((m + 1)*(e*c))), x] + Simp[1/((m + 1)*(e*c)) Int[(e*x)^(m + 1)*(c + d*x)^n*ExpandToSum[(m + 1)*(e*c)*Qx - d*R*(m + n + 2), x], x], x] /; FreeQ[{a, b, c, d, e, n}, x] && IGtQ[p, 0] && LtQ[m, -1] && !IntegerQ[n]`

521.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d) \cdot x)^n \cdot ((a) + (b) \cdot x^2)^{p_1}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b^p \cdot (e \cdot x)^{m+2p} \cdot ((c + d \cdot x)^{n+1} / (d \cdot e^{2p} \cdot (m+n+2p+1))), x] + \text{Simp}[1 / (d \cdot e^{2p} \cdot (m+n+2p+1)) \cdot \text{Int}[(e \cdot x)^m \cdot (c + d \cdot x)^n \cdot \text{ExpandToSum}[d \cdot (m+n+2p+1) \cdot (e^{2p}) \cdot (a + b \cdot x^2)^p - b^p \cdot (e \cdot x)^{2p}] - b^p \cdot (e \cdot c) \cdot (m+2p) \cdot (e \cdot x)^{2p-1}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{NeQ}[m+n+2p+1, 0] \ \&\& \ !\text{IntegerQ}[m] \ \&\& \ !\text{IntegerQ}[n]$
522.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d) \cdot x)^n \cdot ((a) + (b) \cdot x^2)^{p_1}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(e \cdot x)^m \cdot (c + d \cdot x)^n \cdot (a + b \cdot x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x \ \&\& \ \text{IGtQ}[p, 0]$
523.  $\text{Int}[(x)^m \cdot ((c) + (d) \cdot x) / ((a) + (b) \cdot x^2), x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[x^m \cdot ((c + d \cdot x) / (a + b \cdot x^2)), x], x] /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{IntegerQ}[m]$
524.  $\text{Int}[(c) + (d) \cdot x^2 / ((x) \cdot ((a) + (b) \cdot x^2)), x_{\text{Symbol}}] \rightarrow \text{Simp}[(c^2/a) \cdot \text{Log}[x], x] + (-\text{Simp}[(b \cdot c^2 - a \cdot d^2) / a \cdot \text{Int}[x / (a + b \cdot x^2), x], x] + \text{Simp}[2 \cdot c \cdot d \cdot \text{Int}[1 / (a + b \cdot x^2), x], x]) /; \text{FreeQ}\{a, b, c, d\}, x]$
525.  $\text{Int}[(x)^m \cdot ((c) + (d) \cdot x)^n / ((a) + (b) \cdot x^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[d^n \cdot (x^{m+n-1} / (b \cdot (m+n-1))), x] + \text{Simp}[1/b \cdot \text{Int}[x^m \cdot (\text{ExpandToSum}[b \cdot (c + d \cdot x)^n - b \cdot d^n \cdot x^n - a \cdot d^n \cdot x^{n-2}], x) / (a + b \cdot x^2), x], x] /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{IGtQ}[n, 1] \ \&\& \ \text{IGtQ}[m, -2] \ \&\& \ \text{NeQ}[m+n-1, 0]$
526.  $\text{Int}[(x)^m \cdot ((c) + (d) \cdot x)^n / ((a) + (b) \cdot x^2), x_{\text{Symbol}}] \rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[(c + d \cdot x)^n, x, x], R = \text{PolynomialRemainder}[(c + d \cdot x)^n, x, x]\}, \text{Simp}[R \cdot (x^{m+1} / (a \cdot (m+1))), x] + \text{Simp}[1/a \cdot \text{Int}[x^{m+1} \cdot (\text{ExpandToSum}[a \cdot Qx - b \cdot R \cdot x, x] / (a + b \cdot x^2)), x], x] /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{IGtQ}[n, 1] \ \&\& \ \text{ILtQ}[m, -1]$
527.  $\text{Int}[(x)^m \cdot ((c) + (d) \cdot x)^n / ((a) + (b) \cdot x^2)^{3/2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-2^{n-1}) \cdot c^{m+n-2} \cdot ((c + d \cdot x) / (b \cdot d^{m-1} \cdot \text{Sqrt}[a + b \cdot x^2])), x] + \text{Simp}[1 / (b \cdot d^{m-2}) \cdot \text{Int}[(1 / \text{Sqrt}[a + b \cdot x^2]) \cdot \text{ExpandToSum}[(2^{n-1}) \cdot c^{m+n-1} - d^m \cdot x^m \cdot (c + d \cdot x)^{n-1}] / (c$

- d\*x), x], x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[n, 0] && IGtQ[m, 0] && EqQ[b\*c^2 + a\*d^2, 0]
528.  $\text{Int}[(x)^{(m)}*((c) + (d_*)(x))^{(n_*)}/((a) + (b_*)(x)^2)^{(3/2)}, x\_Symbol] \rightarrow \text{Simp}[(-2^{(n-1)})c^{(m+n-2)}*((c+d*x)/(b*d^{(m-1)}*\text{Sqrt}[a+b*x^2]))], x] + \text{Simp}[c^2/a \text{ Int}[(x^m/\text{Sqrt}[a+b*x^2])*ExpandToSum[((c+d*x)^{(n-1)} - (2^{(n-1)}*c^{(m+n-1)})/(d^m*x^m))/(c-d*x)], x], x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IGtQ}[n, 0] \&\& \text{ILtQ}[m, 0] \&\& \text{EqQ}[b*c^2 + a*d^2, 0]$
529.  $\text{Int}[(x)^{(m)}*((c) + (d_*)(x))^{(n_*)}*((a) + (b_*)(x)^2)^{(p_*)}, x\_Symbol] \rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[x^m, a*d + b*c*x, x], R = \text{PolynomialRemainder}[x^m, a*d + b*c*x, x]\}, \text{Simp}[(-c)*R*(c+d*x)^n*((a+b*x^2)^{(p+1)}/(2*a*d*(p+1))), x] + \text{Simp}[c/(2*a*(p+1)) \text{ Int}[(c+d*x)^{(n-1)}*(a+b*x^2)^{(p+1)}*\text{ExpandToSum}[2*a*d*(p+1)*Qx + R*(n+2*p+2)], x], x], x]] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[m, 1] \&\& \text{LtQ}[p, -1] \&\& \text{EqQ}[b*c^2 + a*d^2, 0]$
530.  $\text{Int}[(x)^{(m_*)}*((c) + (d_*)(x))^{(n_*)}*((a) + (b_*)(x)^2)^{(p_*)}, x\_Symbol] \rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[x^m*(c+d*x)^n, a+b*x^2, x], e = \text{Coeff}[\text{PolynomialRemainder}[x^m*(c+d*x)^n, a+b*x^2, x], x, 0], f = \text{Coeff}[\text{PolynomialRemainder}[x^m*(c+d*x)^n, a+b*x^2, x], x, 1]\}, \text{Simp}[(a*f - b*e*x)*((a+b*x^2)^{(p+1)}/(2*a*b*(p+1))), x] + \text{Simp}[1/(2*a*(p+1)) \text{ Int}[(a+b*x^2)^{(p+1)}*\text{ExpandToSum}[2*a*(p+1)*Qx + e*(2*p+3)], x], x], x]] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{LtQ}[p, -1] \&\& \text{EqQ}[n, 1] \&\& \text{IntegerQ}[2*p]$
531.  $\text{Int}[(x)^{(m_*)}*((c) + (d_*)(x))^{(n_*)}*((a) + (b_*)(x)^2)^{(p_*)}, x\_Symbol] \rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[x^m, a+b*x^2, x], e = \text{Coeff}[\text{PolynomialRemainder}[x^m, a+b*x^2, x], x, 0], f = \text{Coeff}[\text{PolynomialRemainder}[x^m, a+b*x^2, x], x, 1]\}, \text{Simp}[(c+d*x)^n*(a*f - b*e*x)*((a+b*x^2)^{(p+1)}/(2*a*b*(p+1))), x] + \text{Simp}[1/(2*a*b*(p+1)) \text{ Int}[(c+d*x)^{(n-1)}*(a+b*x^2)^{(p+1)}*\text{ExpandToSum}[2*a*b*(p+1)*(c+d*x)*Qx - a*d*f*n + b*c*e*(2*p+3) + b*d*e*(n+2*p+3)*x], x], x], x]] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[n, 1] \&\& \text{IntegerQ}[2*p]$



532. `Int[(x_)^(m_)*((c_) + (d_.)*(x_))^(n_.)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := With[{Qx = PolynomialQuotient[x^m*(c + d*x)^n, a + b*x^2, x], e = Coeff[PolynomialRemainder[x^m*(c + d*x)^n, a + b*x^2, x], x, 0], f = Coeff[PolynomialRemainder[x^m*(c + d*x)^n, a + b*x^2, x], x, 1]}, Simp[(a*f - b*e*x)*((a + b*x^2)^(p + 1)/(2*a*b*(p + 1))), x] + Simp[1/(2*a*(p + 1)) Int[x^m*(a + b*x^2)^(p + 1)*ExpandToSum[2*a*(p + 1)*(Qx/x^m) + e*((2*p + 3)/x^m), x], x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[n, 0] && ILtQ[m, 0] && LtQ[p, -1] && IntegerQ[2*p]`
533. `Int[(x_)^(m_.)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Simp[d*x^m*((a + b*x^2)^(p + 1)/(b*(m + 2*p + 2))), x] - Simp[1/(b*(m + 2*p + 2)) Int[x^(m - 1)*(a + b*x^2)^p*Simp[a*d*m - b*c*(m + 2*p + 2)*x, x], x], x] /; FreeQ[{a, b, c, d, p}, x] && IGtQ[m, 0] && GtQ[p, -1] && IntegerQ[2*p]`
534. `Int[(x_)^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Simp[(-c)*x^(m + 1)*((a + b*x^2)^(p + 1)/(2*a*(p + 1))), x] + Simp[d Int[x^(m + 1)*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, m, p}, x] && ILtQ[m, 0] && GtQ[p, -1] && EqQ[m + 2*p + 3, 0]`
535. `Int[(((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_))/(x_), x_Symbol] := Simp[(c*(2*p + 1) + 2*d*p*x)*((a + b*x^2)^p/(2*p*(2*p + 1))), x] + Simp[a/(2*p + 1) Int[(c*(2*p + 1) + 2*d*p*x)*((a + b*x^2)^(p - 1)/x), x], x] /; FreeQ[{a, b, c, d}, x] && GtQ[p, 0] && IntegerQ[2*p]`
536. `Int[(((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_))/(x_)^2, x_Symbol] := Simp[(-(2*c*p - d*x))*((a + b*x^2)^p/(2*p*x)), x] + Int[(a*d + 2*b*c*p*x)*((a + b*x^2)^(p - 1)/x), x] /; FreeQ[{a, b, c, d}, x] && GtQ[p, 0] && IntegerQ[2*p]`
537. `Int[(x_)^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Simp[x^(m + 1)*(c*(m + 2) + d*(m + 1)*x)*((a + b*x^2)^p/((m + 1)*(m + 2))), x] - Simp[2*b*(p/((m + 1)*(m + 2))) Int[x^(m + 2)*(c*(m + 2) + d*(m + 1)*x)*(a + b*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d}, x] && ILtQ[m, -2] && GtQ[p, 0] && !ILtQ[m + 2*p + 3, 0] && IntegerQ[2*p]`

538. `Int[((c_) + (d_.)*(x_))/((x_)*Sqrt[(a_) + (b_.)*(x_)^2]), x_Symbol] :=  
Simp[c Int[1/(x*Sqrt[a + b*x^2]), x], x] + Simp[d Int[1/Sqrt[a +  
b*x^2], x], x] /; FreeQ[{a, b, c, d}, x]`
539. `Int[(x_)^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol  
] := Simp[c*x^(m + 1)*((a + b*x^2)^(p + 1)/(a*(m + 1))), x] + Simp[1/(  
a*(m + 1)) Int[x^(m + 1)*(a + b*x^2)^p*(a*d*(m + 1) - b*c*(m + 2*p +  
3)*x), x], x] /; FreeQ[{a, b, c, d, p}, x] && ILtQ[m, -1] && GtQ[p, -  
1] && IntegerQ[2*p]`
540. `Int[(x_)^(m_)*((c_) + (d_.)*(x_))^(n_)*((a_) + (b_.)*(x_)^2)^(p_), x_S  
ymbol] := With[{Qx = PolynomialQuotient[(c + d*x)^n, x, x], R = Polyno  
mialRemainder[(c + d*x)^n, x, x]}, Simp[R*x^(m + 1)*((a + b*x^2)^(p +  
1)/(a*(m + 1))), x] + Simp[1/(a*(m + 1)) Int[x^(m + 1)*(a + b*x^2)^p  
*ExpandToSum[a*(m + 1)*Qx - b*R*(m + 2*p + 3)*x, x], x]] /; FreeQ[  
{a, b, c, d, p}, x] && IGtQ[n, 1] && ILtQ[m, -1] && GtQ[p, -1] && Inte  
gerQ[2*p]`
541. `Int[(x_)^(m_.)*((c_) + (d_.)*(x_))^(n_)*((a_) + (b_.)*(x_)^2)^(p_), x_  
Symbol] := Simp[d^n*x^(m + n - 1)*((a + b*x^2)^(p + 1)/(b*(m + n + 2*p  
+ 1))), x] + Simp[1/(b*(m + n + 2*p + 1)) Int[x^m*(a + b*x^2)^p*Exp  
andToSum[b*(m + n + 2*p + 1)*(c + d*x)^n - b*d^n*(m + n + 2*p + 1)*x^n  
- a*d^n*(m + n - 1)*x^(n - 2), x], x], x] /; FreeQ[{a, b, c, d, m, p}  
, x] && IGtQ[n, 1] && IGtQ[m, -2] && GtQ[p, -1] && IntegerQ[2*p]`
542. `Int[(x_)^(m_.)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_), x_Symbo  
l] := Simp[c Int[x^m*(a + b*x^2)^p, x], x] + Simp[d Int[x^(m + 1)*  
(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, p}, x] && IntegerQ[m] &&  
!IntegerQ[2*p]`
543. `Int[(x_)^(m_.)*((c_) + (d_.)*(x_))^(n_)*((a_) + (b_.)*(x_)^2)^(p_), x_  
Symbol] := Module[{k}, Int[x^m*Sum[Binomial[n, 2*k]*c^(n - 2*k)*d^(2*k  
)*x^(2*k), {k, 0, n/2}]*(a + b*x^2)^p, x] + Int[x^(m + 1)*Sum[Binomial  
[n, 2*k + 1]*c^(n - 2*k - 1)*d^(2*k + 1)*x^(2*k), {k, 0, (n - 1)/2}]*(  
a + b*x^2)^p, x]] /; FreeQ[{a, b, c, d, p}, x] && IGtQ[n, 1] && Intege  
rQ[m] && !IntegerQ[2*p] && !(EqQ[m, 1] && EqQ[b*c^2 + a*d^2, 0])`

544. `Int[((e_.)*(x_))^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_),  
x_Symbol] :> Simp[(e*x)^m*(a*d - b*c*x)*((a + b*x^2)^(p + 1)/(2*a*b*(p  
+ 1))), x] - Simp[e*d*(m/(2*b*(p + 1)))*Int[(e*x)^(m - 1)*(a + b*x^2)  
^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[Simplify[m + 2  
*p + 3], 0] && LtQ[p, -1]`
545. `Int[((e_.)*(x_))^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_),  
x_Symbol] :> Simp[(-c)*(e*x)^(m + 1)*((a + b*x^2)^(p + 1)/(2*a*e*(p +  
1))), x] + Simp[d/e Int[(e*x)^(m + 1)*(a + b*x^2)^p, x], x] /; FreeQ  
{a, b, c, d, e, m, p}, x] && EqQ[Simplify[m + 2*p + 3], 0]`
546. `Int[((e_.)*(x_))^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_),  
x_Symbol] :> Simp[(e*x)^(m + 1)*(c*(m + 2) + d*(m + 1)*x)*((a + b*x^2)  
^p/(e*(m + 1)*(m + 2))), x] - Simp[2*b*(p/(e^2*(m + 1)*(m + 2))) Int  
[(e*x)^(m + 2)*(a + b*x^2)^(p - 1)*(c*(m + 2) + d*(m + 1)*x), x], x] /  
; FreeQ[{a, b, c, d, e}, x] && GtQ[p, 0] && LtQ[m, -2] && !ILtQ[m + 2  
*p + 3, 0]`
547. `Int[((e_.)*(x_))^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_),  
x_Symbol] :> Simp[(e*x)^(m + 1)*(c*(m + 2*p + 2) + d*(m + 1)*x)*((a +  
b*x^2)^p/(e*(m + 1)*(m + 2*p + 2))), x] + Simp[2*(p/(e*(m + 1)*(m + 2*  
p + 2))) Int[(e*x)^(m + 1)*(a*d*(m + 1) - b*c*(m + 2*p + 2)*x)*(a +  
b*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d, e}, x] && GtQ[p, 0] && Lt  
Q[m, -1] && !ILtQ[m + 2*p + 1, 0]`
548. `Int[((e_.)*(x_))^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_),  
x_Symbol] :> Simp[(e*x)^(m + 1)*(c*(m + 2*p + 2) + d*(m + 2*p + 1)*x)*  
((a + b*x^2)^p/(e*(m + 2*p + 1)*(m + 2*p + 2))), x] + Simp[2*a*(p/((m  
+ 2*p + 1)*(m + 2*p + 2))) Int[(e*x)^m*(a + b*x^2)^(p - 1)*(c*(m + 2  
*p + 2) + d*(m + 2*p + 1)*x), x], x] /; FreeQ[{a, b, c, d, e, m}, x] &  
& GtQ[p, 0] && (IntegerQ[p] || !RationalQ[m] || (GeQ[m, -1] && LtQ[m,  
0])) && !ILtQ[m + 2*p, 0] && (IntegerQ[m] || IntegerQ[p] || Integers  
Q[2*m, 2*p])`
549. `Int[((e_.)*(x_))^(m_)*((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^2)^(p_),  
x_Symbol] :> Simp[e*(e*x)^(m - 1)*(c + d*x)*((a + b*x^2)^(p + 1)/(2*b*  
(p + 1))), x] - Simp[e^2/(2*b*(p + 1)) Int[(e*x)^(m - 2)*(c*(m - 1)`

+ d\*m\*x)\*(a + b\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e}, x] && LtQ[p, -1] && GtQ[m, 1]

550. Int[((e\_)\*(x\_))^(m\_)\*((c\_) + (d\_)\*(x\_))\*((a\_) + (b\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(e\*x)^m\*(a\*d - b\*c\*x)\*((a + b\*x^2)^(p + 1)/(2\*a\*b\*(p + 1))), x] - Simp[e/(2\*a\*b\*(p + 1)) Int[(e\*x)^(m - 1)\*(a\*d\*m - b\*c\*(m + 2\*p + 3)\*x)\*(a + b\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e}, x] && LtQ[p, -1] && LtQ[0, m, 1]

551. Int[((e\_)\*(x\_))^(m\_)\*((c\_) + (d\_)\*(x\_))\*((a\_) + (b\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[(-e\*x)^(m + 1)\*(c + d\*x)\*((a + b\*x^2)^(p + 1)/(2\*a\*e\*(p + 1))), x] + Simp[1/(2\*a\*(p + 1)) Int[(e\*x)^m\*(c\*(m + 2\*p + 3) + d\*(m + 2\*p + 4)\*x)\*(a + b\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && LtQ[p, -1] && LtQ[m, 0]

552. Int[((e\_)\*(x\_))^(m\_)\*((c\_) + (d\_)\*(x\_))\*((a\_) + (b\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[d\*(e\*x)^m\*((a + b\*x^2)^(p + 1)/(b\*(m + 2\*p + 2))), x] - Simp[e/(b\*(m + 2\*p + 2)) Int[(e\*x)^(m - 1)\*(a + b\*x^2)^p\*Simp[a\*d\*m - b\*c\*(m + 2\*p + 2)\*x, x], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && GtQ[m, 0] && NeQ[m + 2\*p + 2, 0] && (IntegerQ[p] || IntegersQ[2\*m, 2\*p])

553. Int[((e\_)\*(x\_))^(m\_)\*((c\_) + (d\_)\*(x\_))\*((a\_) + (b\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[c\*(e\*x)^(m + 1)\*((a + b\*x^2)^(p + 1)/(a\*e\*(m + 1))), x] + Simp[1/(a\*e\*(m + 1)) Int[(e\*x)^(m + 1)\*(a + b\*x^2)^p\*(a\*d\*(m + 1) - b\*c\*(m + 2\*p + 3)\*x), x], x] /; FreeQ[{a, b, c, d, e, p}, x] && LtQ[m, -1]

554. Int[((c\_) + (d\_)\*(x\_))/(Sqrt[(e\_)\*(x\_)]\*((a\_) + (b\_)\*(x\_)^2)), x\_Symbol] :> Simp[2 Subst[Int[(e\*c + d\*x^2)/(a\*e^2 + b\*x^4), x], x, Sqrt[e\*x]], x] /; FreeQ[{a, b, c, d, e}, x]

555. Int[((f\_) + (g\_)\*(x\_))/(Sqrt[x\_]\*Sqrt[(a\_) + (c\_)\*(x\_)^2]), x\_Symbol] :> Simp[2 Subst[Int[(f + g\*x^2)/Sqrt[a + c\*x^4], x], x, Sqrt[x]], x] /; FreeQ[{a, c, f, g}, x]

556. `Int[((c_) + (d_)*(x_))/(Sqrt[(e_)*(x_)]*Sqrt[(a_) + (b_)*(x_)^2]), x_Symbol] := Simp[Sqrt[x]/Sqrt[e*x] Int[(c + d*x)/(Sqrt[x]*Sqrt[a + b*x^2]), x], x] /; FreeQ[{a, b, c, d, e}, x]`
557. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Simp[c Int[(e*x)^m*(a + b*x^2)^p, x], x] + Simp[d/e Int[(e*x)^(m + 1)*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x]`
558. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{Qx = PolynomialQuotient[(c + d*x)^n, a + b*x^2, x], f = Coeff[PolynomialRemainder[(c + d*x)^n, a + b*x^2, x], x, 0], g = Coeff[PolynomialRemainder[(c + d*x)^n, a + b*x^2, x], x, 1]}, Simp[(-e*x)^(m + 1)*(f + g*x)*((a + b*x^2)^(p + 1)/(2*a*e*(p + 1))), x] + Simp[1/(2*a*(p + 1)) Int[(e*x)^m*(a + b*x^2)^(p + 1)*ExpandToSum[2*a*(p + 1)*Qx + f*(m + 2*p + 3) + g*(m + 2*p + 4)*x, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[n, 1] && !IntegerQ[m] && LtQ[p, -1]`
559. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Simp[d^n*(e*x)^(m + n - 1)*((a + b*x^2)^(p + 1)/(b*e^(n - 1)*(m + n + 2*p + 1))), x] + Simp[1/(b*(m + n + 2*p + 1)) Int[(e*x)^m*(a + b*x^2)^p*ExpandToSum[b*(m + n + 2*p + 1)*(c + d*x)^n - b*d^n*(m + n + 2*p + 1)*x^n - a*d^n*(m + n - 1)*x^(n - 2), x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && IGtQ[n, 1] && !IntegerQ[m] && NeQ[m + n + 2*p + 1, 0]`
560. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Module[{k}, Int[(e*x)^m*Sum[Binomial[n, 2*k]*c^(n - 2*k)*d^(2*k)*x^(2*k), {k, 0, n/2}]*((a + b*x^2)^p, x] + Simp[1/e Int[(e*x)^(m + 1)*Sum[Binomial[n, 2*k + 1]*c^(n - 2*k - 1)*d^(2*k + 1)*x^(2*k), {k, 0, (n - 1)/2}]*((a + b*x^2)^p, x), x] /; FreeQ[{a, b, c, d, e, p}, x] && IGtQ[n, 1] && !IntegerQ[m] && EqQ[m + n + 2*p + 1, 0]`
561. `Int[(x_)^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{k = Denominator[n]}, Simp[k/d Subst[Int[x^(k*(n + 1) - 1)*(-c/d + x^k/d)^m*Simp[(b*c^2 + a*d^2)/d^2 - 2*b*c*(x^k/d^2) + b`

$*(x^{(2*k)/d^2}, x]^p, x], x, (c + d*x)^{(1/k)}, x]] /; \text{FreeQ}\{a, b, c, d, m, p\}, x] \ \&\& \ \text{FractionQ}[n] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[m]$

562.  $\text{Int}[(x_)^{(m_*)}*((c_) + (d_)*(x_))^{(n_)}*((a_) + (b_)*(x_)^2)^{(p_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[c^{(2*n)}/a^n \ \text{Int}[x^m*((a + b*x^2)^{(n + p)}/(c - d*x)^n), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b*c^2 + a*d^2, 0] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{IGtQ}[n + p + 1/2, 0]$

563.  $\text{Int}[(x_)^{(m_*)}*((c_) + (d_)*(x_))^{(n_)}*((a_) + (b_)*(x_)^2)^{(p_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(-(-c)^{(m - n - 2)})*d^{(2*n - m + 3)}*(\text{Sqrt}[a + b*x^2]/(2^{(n + 1)}*b^{(n + 2)}*(c + d*x))), x] - \text{Simp}[d^{(2*n - m + 2)}/b^{(n + 1)} \ \text{Int}[(1/\text{Sqrt}[a + b*x^2])* \text{ExpandToSum}[(2^{(-n - 1)}*(-c)^{(m - n - 1)} - d^m*x^m*(-c + d*x)^{(-n - 1)})/(c + d*x), x], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b*c^2 + a*d^2, 0] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{EqQ}[n + p, -3/2]$

564.  $\text{Int}[(x_)^{(m_*)}*((c_) + (d_)*(x_))^{(n_)}*((a_) + (b_)*(x_)^2)^{(p_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(-(-c)^{(m - n - 2)})*d^{(2*n - m + 3)}*(\text{Sqrt}[a + b*x^2]/(2^{(n + 1)}*b^{(n + 2)}*(c + d*x))), x] - \text{Simp}[d^{(2*n + 2)}/b^{(n + 1)} \ \text{Int}[(x^m/\text{Sqrt}[a + b*x^2])* \text{ExpandToSum}[(2^{(-n - 1)}*(-c)^{(m - n - 1)})/(d^m*x^m - (-c + d*x)^{(-n - 1)})/(c + d*x), x], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b*c^2 + a*d^2, 0] \ \&\& \ \text{ILtQ}[m, 0] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{EqQ}[n + p, -3/2]$

565.  $\text{Int}[((x_)*((a_) + (b_)*(x_)^2)^{(p_))}/((c_) + (d_)*(x_)), x\_ \text{Symbol}] \rightarrow \text{Simp}[a*((a + b*x^2)^p/(2*b*c*p)), x] + \text{Simp}[b/d \ \text{Int}[x^2*(a + b*x^2)^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, p\}, x] \ \&\& \ \text{EqQ}[b*c^2 + a*d^2, 0]$

566.  $\text{Int}[((x_)^{(m_*)}*((a_) + (b_)*(x_)^2)^{(p_))}/((c_) + (d_)*(x_)), x\_ \text{Symbol}] \rightarrow \text{Int}[x^m*(a/c + b*(x/d))*(a + b*x^2)^{(p - 1)}, x] /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b*c^2 + a*d^2, 0] \ \&\& \ \text{GtQ}[p, 0]$

567.  $\text{Int}[((x_)^{(m_*)}*((a_) + (b_)*(x_)^2)^{(p_))}/((c_) + (d_)*(x_)), x\_ \text{Symbol}] \rightarrow \text{Simp}[c*x^m*((a + b*x^2)^{(p + 1)}/(2*a*d*p*(c + d*x))), x] - \text{Simp}[m/(2*d*p) \ \text{Int}[x^{(m - 1)}*(a + b*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b*c^2 + a*d^2, 0] \ \&\& \ \text{IGtQ}[m, 1] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{EqQ}[m + 2]$

\*p + 1, 0]

568.  $\text{Int}[\frac{(x^m)((a) + (b)(x^2)^p)}{(c) + (d)(x)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[x^{m-1}((a + b x^2)^{p+1}/(2 b^p (c + d x))), x] + \text{Simp}[1/(2 d^2 p) \text{Int}[x^{m-2}(a + b x^2)^p (c(m-1) - d m x), x], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{EqQ}[b c^2 + a d^2, 0] \ \&\& \ \text{IGtQ}[m, 1] \ \&\& \ \text{LtQ}[p, -1]$
569.  $\text{Int}[\frac{(x^m)((a) + (b)(x^2)^p)}{(c) + (d)(x)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-x^{m+1})((a + b x^2)^{p+1}/(2 a^p (c + d x))), x] + \text{Simp}[1/(2 c^2 p) \text{Int}[x^m (a + b x^2)^p (c(m+2p+1) - d(m+2p+2)x), x], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{EqQ}[b c^2 + a d^2, 0] \ \&\& \ \text{ILtQ}[m + 2p, 0]$
570.  $\text{Int}[\frac{(e)(x)^m((c) + (d)(x))^n((a) + (b)(x^2)^p)}{(c - d x)^n}, x_{\text{Symbol}}] \rightarrow \text{Simp}[c^{2n}/a^n \text{Int}[(e x)^m (a + b x^2)^{n+p}/(c - d x)^n], x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, p\}, x\} \ \&\& \ \text{EqQ}[b c^2 + a d^2, 0] \ \&\& \ \text{ILtQ}[n, -1] \ \&\& \ !(\text{IGtQ}[m, 0] \ \&\& \ \text{ILtQ}[m + n, 0] \ \&\& \ \text{IGtQ}[p, 1])$
571.  $\text{Int}[(x)((c) + (d)(x))^n((a) + (b)(x^2)^p), x_{\text{Symbol}}] \rightarrow \text{Simp}[(c + d x)^n ((a + b x^2)^{p+1}/(2 b (n + p + 1))), x] + \text{Simp}[n/(2 d (n + p + 1)) \text{Int}[(c + d x)^{n+1} (a + b x^2)^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, n, p\}, x\} \ \&\& \ \text{EqQ}[b c^2 + a d^2, 0] \ \&\& \ ((\text{LtQ}[n, -1] \ \&\& \ !\text{IGtQ}[n + p + 1, 0]) \ || \ (\text{LtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1]) \ || \ \text{EqQ}[n + 2p + 2, 0]) \ \&\& \ \text{NeQ}[n + p + 1, 0]$
572.  $\text{Int}[(x)((c) + (d)(x))^n((a) + (b)(x^2)^p), x_{\text{Symbol}}] \rightarrow \text{Simp}[(c + d x)^n ((a + b x^2)^{p+1}/(b(n + 2p + 2))), x] + \text{Simp}[c(n/(d(n + 2p + 2))) \text{Int}[(c + d x)^n (a + b x^2)^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, n, p\}, x\} \ \&\& \ \text{EqQ}[b c^2 + a d^2, 0] \ \&\& \ \text{NeQ}[n + 2p + 2, 0]$
573.  $\text{Int}[\frac{\text{Sqrt}[(c) + (d)(x)]}{(x)\text{Sqrt}[(a) + (b)(x^2)]}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2c \text{Subst}[\text{Int}[1/(a - c x^2), x], x, \text{Sqrt}[a + b x^2]/\text{Sqrt}[c + d x]], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{EqQ}[b c^2 + a d^2, 0]$

574.  $\text{Int}[(e \cdot x)^n \cdot ((c) + (d \cdot x)^m) \cdot ((a) + (b \cdot x^2)^p), x\_Symbol] \rightarrow \text{Simp}[d^2 \cdot (e \cdot x)^{n+1} \cdot (c + d \cdot x)^{m-2} \cdot ((a + b \cdot x^2)^{p+1}) / (b \cdot e \cdot (n + p + 2)), x] + \text{Simp}[c \cdot ((2 \cdot n + p + 3) / (n + p + 2)) \cdot \text{Int}[(e \cdot x)^n \cdot (c + d \cdot x)^{m-1} \cdot (a + b \cdot x^2)^p, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x] \ \&\& \ \text{EqQ}[b \cdot c^2 + a \cdot d^2, 0] \ \&\& \ \text{EqQ}[m + p - 1, 0] \ \&\& \ !\text{LtQ}[n, -1] \ \&\& \ \text{IntegerQ}[2 \cdot p]$
575.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d \cdot x)^n) \cdot ((a) + (b \cdot x^2)^p), x\_Symbol] \rightarrow \text{Simp}[(e \cdot x)^{m+1} \cdot (c + d \cdot x)^n \cdot ((a + b \cdot x^2)^p / (e \cdot (m + 1))), x] + \text{Simp}[b \cdot (n / (d \cdot e \cdot (m + 1))) \cdot \text{Int}[(e \cdot x)^{m+1} \cdot (c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^{p-1}, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[b \cdot c^2 + a \cdot d^2, 0] \ \&\& \ \text{EqQ}[n + p, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ !(\text{IntegerQ}[m + p] \ \&\& \ \text{LeQ}[m + p + 2, 0])$
576.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d \cdot x)^n) \cdot ((a) + (b \cdot x^2)^p), x\_Symbol] \rightarrow \text{Simp}[(-e \cdot x)^{m+1} \cdot (c + d \cdot x)^n \cdot ((a + b \cdot x^2)^p / (e \cdot (n - m - 1))), x] - \text{Simp}[b \cdot c \cdot (n / (d^2 \cdot (n - m - 1))) \cdot \text{Int}[(e \cdot x)^m \cdot (c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^{p-1}, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{EqQ}[b \cdot c^2 + a \cdot d^2, 0] \ \&\& \ \text{EqQ}[n + p, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{NeQ}[m - n + 1, 0] \ \&\& \ !\text{IGtQ}[m, 0] \ \&\& \ !(\text{IntegerQ}[m + p] \ \&\& \ \text{LtQ}[m + p + 2, 0]) \ \& \ \& \ \text{RationalQ}[m]$
577.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d \cdot x)^n) \cdot ((a) + (b \cdot x^2)^p), x\_Symbol] \rightarrow \text{Simp}[d \cdot (e \cdot x)^m \cdot (c + d \cdot x)^{n-1} \cdot ((a + b \cdot x^2)^{p+1}) / (b \cdot (p + 1)), x] - \text{Simp}[d \cdot e \cdot (m / (b \cdot (p + 1))) \cdot \text{Int}[(e \cdot x)^{m-1} \cdot (c + d \cdot x)^{n-1} \cdot (a + b \cdot x^2)^{p+1}, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[b \cdot c^2 + a \cdot d^2, 0] \ \&\& \ \text{EqQ}[n + p, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[m, 0]$
578.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d \cdot x)^n) \cdot ((a) + (b \cdot x^2)^p), x\_Symbol] \rightarrow \text{Simp}[(-c) \cdot (e \cdot x)^{m+1} \cdot (c + d \cdot x)^{n-1} \cdot ((a + b \cdot x^2)^{p+1}) / (a \cdot e \cdot (p + 1)), x] + \text{Simp}[c \cdot ((m - n + 2) / (a \cdot (p + 1))) \cdot \text{Int}[(e \cdot x)^m \cdot (c + d \cdot x)^{n-1} \cdot (a + b \cdot x^2)^{p+1}, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{EqQ}[b \cdot c^2 + a \cdot d^2, 0] \ \&\& \ \text{EqQ}[n + p, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{RationalQ}[m]$
579.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d \cdot x)^n) \cdot ((a) + (b \cdot x^2)^p), x\_Symbol] \rightarrow \text{Simp}[(-d^2) \cdot (e \cdot x)^{m+1} \cdot (c + d \cdot x)^{n-1} \cdot ((a + b \cdot x^2)^{p+1}) / (a \cdot e \cdot (p + 1)), x] + \text{Simp}[d \cdot (m - n + 2) \cdot \text{Int}[(e \cdot x)^m \cdot (c + d \cdot x)^{n-1} \cdot (a + b \cdot x^2)^{p+1}, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{EqQ}[b \cdot c^2 + a \cdot d^2, 0] \ \&\& \ \text{EqQ}[n + p, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{RationalQ}[m]$



- $$x^2)^{(p+1)/(b*c*e^{(m+1)}), x] - \text{Simp}[d*((n-m-2)/(c*e^{(m+1)}))$$
- $$\text{Int}[(e*x)^{(m+1)*(c+d*x)^n*(a+b*x^2)^p, x], x] /; \text{FreeQ}[\{a, b,$$
- $$c, d, e, n, p\}, x] \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{EqQ}[n+p, 0] \&\& \text{LtQ}[m,$$
- $$-1] \&\& (\text{IntegerQ}[2*p] \mid\mid \text{IntegerQ}[m])$$
580.  $\text{Int}[(e_{.})(x_{.})^{(m_{.})}*((c_{.}) + (d_{.})(x_{.}))^{(n_{.})}*((a_{.}) + (b_{.})(x_{.})^2)^{(p_{.})}, x\_Symbol] \rightarrow \text{Simp}[(-d^2)*(e*x)^{(m+1)*(c+d*x)^{(n-2)}*((a+b*x^2)^{(p+1)/(b*e^{(m+1)}), x] + \text{Simp}[d*((2*m+p+3)/(e^{(m+1)}))$
- $$\text{Int}[(e*x)^{(m+1)*(c+d*x)^{(n-1)}*(a+b*x^2)^p, x], x] /; \text{FreeQ}[\{a,$$
- $$b, c, d, e, n, p\}, x] \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{EqQ}[n+p-1, 0]$$
- $$\&\& \text{LtQ}[m, -1] \&\& \text{IntegerQ}[p+1/2]$$
581.  $\text{Int}[(x_{.})^{(m_{.})}*((c_{.}) + (d_{.})(x_{.}))^{(n_{.})}*((a_{.}) + (b_{.})(x_{.})^2)^{(p_{.})}, x\_Symbol] \rightarrow \text{Simp}[(c+d*x)^{(m+n-1)}*((a+b*x^2)^{(p+1)/(b*d^{(m-1)}*(m+n+2*p+1))}, x] + \text{Simp}[1/(d^{m*(m+n+2*p+1)} \text{Int}[(c+d*x)^n*(a+b*x^2)^p \text{ExpandToSum}[d^{m*(m+n+2*p+1)*x^m - (m+n+2*p+1)*(c+d*x)^m + c*(c+d*x)^{(m-2)}*(c*(m+n-1) + c*(m+n+2*p+1) + 2*d*(m+n+p)*x), x], x], x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{IGtQ}[m, 1] \&\& \text{NeQ}[m+n+2*p+1, 0] \&\& (\text{IntegerQ}[2*p] \mid\mid \text{ILtQ}[m+n, 0])$ 

582.  $\text{Int}[(x_{.})^{(m_{.})}*((c_{.}) + (d_{.})(x_{.}))^{(n_{.})}*((a_{.}) + (b_{.})(x_{.})^2)^{(p_{.})}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[x^m*(c+d*x)^n*(a+b*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{IntegerQ}[2*p] \&\& \text{IntegerQ}[m] \&\& \text{ILtQ}[n, 0]$ 

583.  $\text{Int}[(e_{.})(x_{.})^{(m_{.})}*((c_{.}) + (d_{.})(x_{.}))^{(n_{.})}*((a_{.}) + (b_{.})(x_{.})^2)^{(p_{.})}, x\_Symbol] \rightarrow \text{Simp}[c^{(2*n)}/a^n \text{Int}[(e*x)^m*(a+b*x^2)^{(n+p)}/(c-d*x)^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, p\}, x] \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{ILtQ}[n, 0]$ 

584.  $\text{Int}[(e_{.})(x_{.})^{(m_{.})}*((c_{.}) + (d_{.})(x_{.}))^{(n_{.})}*((a_{.}) + (b_{.})(x_{.})^2)^{(p_{.})}, x\_Symbol] \rightarrow \text{Int}[(e*x)^m*(c+d*x)^{(n+p)}*(a/c + (b/d)*x)^p, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& \text{GtQ}[a, 0] \&\& \text{GtQ}[c, 0]$

585.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d) \cdot x)^n \cdot ((a) + (b) \cdot x)^2]^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[a^p \cdot c^{\text{IntPart}[n]} \cdot ((c + d \cdot x)^{\text{FracPart}[n]} / (1 + d \cdot (x/c))^{\text{FracPart}[n]}) \cdot \text{Int}[(e \cdot x)^m \cdot (1 - d \cdot (x/c))^p \cdot (1 + d \cdot (x/c))^{n+p}], x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x\} \ \&\& \ \text{EqQ}[b \cdot c^2 + a \cdot d^2, 0] \ \&\& \ \text{GtQ}[a, 0]$
586.  $\text{Int}[(e \cdot x)^m \cdot ((c) + (d) \cdot x)^n \cdot ((a) + (b) \cdot x)^2]^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b \cdot x^2)^{\text{FracPart}[p]} / ((c + d \cdot x)^{\text{FracPart}[p]} \cdot (a/c + (b \cdot x)/d)^{\text{FracPart}[p]}) \cdot \text{Int}[(e \cdot x)^m \cdot (c + d \cdot x)^{n+p} \cdot (a/c + (b/d) \cdot x)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x\} \ \&\& \ \text{EqQ}[b \cdot c^2 + a \cdot d^2, 0]$
587.  $\text{Int}[x / (((c) + (d) \cdot x) \cdot ((a) + (b) \cdot x)^2)], x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c) \cdot (d / (b \cdot c^2 + a \cdot d^2)) \cdot \text{Int}[1 / (c + d \cdot x), x], x] + \text{Simp}[1 / (b \cdot c^2 + a \cdot d^2) \cdot \text{Int}[(a \cdot d + b \cdot c \cdot x) / (a + b \cdot x^2), x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{NeQ}[b \cdot c^2 + a \cdot d^2, 0]$
588.  $\text{Int}[x \cdot ((c) + (d) \cdot x)^n \cdot ((a) + (b) \cdot x)^2]^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[c \cdot (c + d \cdot x)^{n+1} \cdot ((a + b \cdot x^2)^{p+1} / (2 \cdot (p+1) \cdot (b \cdot c^2 + a \cdot d^2))), x] + \text{Simp}[a \cdot (d / (b \cdot c^2 + a \cdot d^2)) \cdot \text{Int}[(c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x\} \ \&\& \ \text{EqQ}[\text{Simplify}[n + 2 \cdot p + 3], 0] \ \&\& \ \text{NeQ}[b \cdot c^2 + a \cdot d^2, 0]$
589.  $\text{Int}[x \cdot ((c) + (d) \cdot x)^n \cdot ((a) + (b) \cdot x)^2]^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^p \cdot ((c \cdot (a \cdot d^2 + b \cdot c^2 \cdot (2 \cdot p + 1)) - d \cdot (a \cdot d^2 \cdot (n+1) + b \cdot c^2 \cdot (n - 2 \cdot p + 1)) \cdot x) / (d^2 \cdot (n+1) \cdot (n+2) \cdot (b \cdot c^2 + a \cdot d^2))), x] + \text{Simp}[b \cdot (p / (d^2 \cdot (n+1) \cdot (n+2) \cdot (b \cdot c^2 + a \cdot d^2))) \cdot \text{Int}[(c + d \cdot x)^{n+2} \cdot (a + b \cdot x^2)^{p-1} \cdot \text{Simp}[2 \cdot a \cdot c \cdot d \cdot (n+2) - (2 \cdot a \cdot d^2 \cdot (n+1) - 2 \cdot b \cdot c^2 \cdot (2 \cdot p + 1)) \cdot x, x], x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[n, -2] \ \&\& \ \text{LtQ}[n + 2 \cdot p, 0] \ \&\& \ \text{!ILtQ}[n + 2 \cdot p + 3, 0]$
590.  $\text{Int}[x \cdot ((c) + (d) \cdot x)^n \cdot ((a) + (b) \cdot x)^2]^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^p \cdot ((c \cdot (2 \cdot p + 1) - d \cdot (n+1)) \cdot x) / (d^2 \cdot (n+1) \cdot (n+2 \cdot p + 2))), x] + \text{Simp}[2 \cdot (p / (d^2 \cdot (n+1) \cdot (n+2 \cdot p + 2))) \cdot \text{Int}[(c + d \cdot x)^{n+1} \cdot (a + b \cdot x^2)^{p-1} \cdot (a \cdot d \cdot (n+1) + b \cdot c \cdot (2 \cdot p + 1)) \cdot x, x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[n,$

-1] && !ILtQ[n + 2\*p + 1, 0]

591.  $\text{Int}[(x_*)*((c_*) + (d_*)*(x_*))^{(n_*)}*((a_*) + (b_*)*(x_*)^2)^{(p_*)}, x\_Symbol]$   
 $]:> \text{Simp}[(-c + d*x)^{(n+1)}*(a + b*x^2)^p*((c*(2*p + 1) - d*(n + 2*p + 1)*x)/(d^2*(n + 2*p + 1)*(n + 2*p + 2))], x] + \text{Simp}[2*(p/(d^2*(n + 2*p + 1)*(n + 2*p + 2))) \text{Int}[(c + d*x)^n*(a + b*x^2)^{(p-1)}*\text{Simp}[a*c*d*n + (b*c^2*(2*p + 1) + a*d^2*(n + 2*p + 1))*x, x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{LeQ}[-1, n, 0] \&\& !\text{ILtQ}[n + 2*p, 0]$
592.  $\text{Int}[(x_*)*((c_*) + (d_*)*(x_*))^{(n_*)}*((a_*) + (b_*)*(x_*)^2)^{(p_*)}, x\_Symbol]$   
 $]:> \text{Simp}[(c + d*x)^n*((a + b*x^2)^{(p+1)}/(2*b*(p+1))), x] - \text{Simp}[d*(n/(2*b*(p+1))) \text{Int}[(c + d*x)^{(n-1)}*(a + b*x^2)^{(p+1)}, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[n, 0] \&\& (\text{IntegerQ}[n] || \text{IntegerQ}[p] || \text{IntegersQ}[2*n, 2*p])$
593.  $\text{Int}[(x_*)*((c_*) + (d_*)*(x_*))^{(n_*)}*((a_*) + (b_*)*(x_*)^2)^{(p_*)}, x\_Symbol]$   
 $]:> \text{Simp}[(c + d*x)^{(n+1)}*(c - d*x)*((a + b*x^2)^{(p+1)}/(2*(p+1)*(b*c^2 + a*d^2))), x] - \text{Simp}[d/(2*(p+1)*(b*c^2 + a*d^2)) \text{Int}[(c + d*x)^n*(a + b*x^2)^{(p+1)}*(c*n - d*(n + 2*p + 4)*x), x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[b*c^2 + a*d^2, 0]$
594.  $\text{Int}[(x_*)*((c_*) + (d_*)*(x_*))^{(n_*)}*((a_*) + (b_*)*(x_*)^2)^{(p_*)}, x\_Symbol]$   
 $]:> \text{Simp}[(-c)*(c + d*x)^{(n+1)}*((a + b*x^2)^{(p+1)}/((n+1)*(b*c^2 + a*d^2))), x] + \text{Simp}[1/((n+1)*(b*c^2 + a*d^2)) \text{Int}[(c + d*x)^{(n+1)}*(a + b*x^2)^p*(a*d*(n+1) + b*c*(n + 2*p + 3)*x), x], x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[b*c^2 + a*d^2, 0]$
595.  $\text{Int}[(x_*)*((c_*) + (d_*)*(x_*))^{(n_*)}/((a_*) + (b_*)*(x_*)^2), x\_Symbol] :$   
 $> \text{Simp}[(c + d*x)^n/(b*n), x] - \text{Simp}[1/b \text{Int}[(c + d*x)^{(n-1)}*((a*d - b*c*x)/(a + b*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{GtQ}[n, 0]$
596.  $\text{Int}[(x_*)*((c_*) + (d_*)*(x_*))^{(n_*)}*((a_*) + (b_*)*(x_*)^2)^{(p_*)}, x\_Symbol]$   
 $]:> \text{Simp}[(c + d*x)^n*((a + b*x^2)^{(p+1)}/(b*(n + 2*p + 2))), x] - \text{Simp}[n/(b*(n + 2*p + 2)) \text{Int}[(c + d*x)^{(n-1)}*(a + b*x^2)^p*(a*d - b*c*x), x], x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[n + 2*p$

+ 2, 0]

597.  $\text{Int}[(x)/((c) + (d_*)(x))*((a) + (b_*)(x)^2)^{(3/4)}, x\_Symbol]$   
 $\rightarrow \text{With}\{q = \text{Rt}[-a, 4]\}, \text{Simp}[(c/(2*d^2*q^3))*\text{ArcTan}[c*q*((a + b*x^2)^{(1/4))/(q^2*(c + d*x) - c*\text{Sqrt}[a + b*x^2])], x] + \text{Simp}[(c/(2*d^2*q^3))*\text{ArcTanh}[c*q*((a + b*x^2)^{(1/4))/(q^2*(c + d*x) + c*\text{Sqrt}[a + b*x^2])], x]$  /;  $\text{FreeQ}\{a, b, c, d\}, x$  &&  $\text{EqQ}[b*c^2 + 2*a*d^2, 0]$  &&  $\text{NegQ}[a]$

598.  $\text{Int}[(x)/((c) + (d_*)(x))*((a) + (b_*)(x)^2)^{(3/4)}, x\_Symbol]$   
 $\rightarrow \text{Simp}[(-a - b*x^2)^{(3/4)/(a + b*x^2)^{(3/4)} \text{Int}[x/((c + d*x)*(-a - b*x^2)^{(3/4)}], x], x]$  /;  $\text{FreeQ}\{a, b, c, d\}, x$  &&  $\text{EqQ}[b*c^2 + 2*a*d^2, 0]$  &&  $\text{PosQ}[a]$

599.  $\text{Int}[(A_*) + (B_*)(x)]/(\text{Sqrt}[(c) + (d_*)(x)]*\text{Sqrt}[(a) + (b_*)(x)^2]), x\_Symbol]$   $\rightarrow \text{Simp}[-2/d^2 \text{Subst}[\text{Int}[(B*c - A*d - B*x^2)/\text{Sqrt}[(b*c^2 + a*d^2)/d^2 - 2*b*c*(x^2/d^2) + b*(x^4/d^2)], x], x, \text{Sqrt}[c + d*x]]$ , x] /;  $\text{FreeQ}\{a, b, c, d, A, B\}, x$  &&  $\text{PosQ}[b/a]$

600.  $\text{Int}[(A_*) + (B_*)(x)]/(\text{Sqrt}[(c) + (d_*)(x)]*\text{Sqrt}[(a) + (b_*)(x)^2]), x\_Symbol]$   $\rightarrow \text{Simp}[B/d \text{Int}[\text{Sqrt}[c + d*x]/\text{Sqrt}[a + b*x^2], x], x] - \text{Simp}[(B*c - A*d)/d \text{Int}[1/(\text{Sqrt}[c + d*x]*\text{Sqrt}[a + b*x^2]), x], x]$  /;  $\text{FreeQ}\{a, b, c, d, A, B\}, x$  &&  $\text{NegQ}[b/a]$

601.  $\text{Int}[(x)^{(m_*)}*((c) + (d_*)(x))^{(n_*)}*((a) + (b_*)(x)^2)^{(p_*)}, x\_Symbol]$   $\rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[x^m*(c + d*x)^n, a + b*x^2, x], e = \text{Coeff}[\text{PolynomialRemainder}[x^m*(c + d*x)^n, a + b*x^2, x], x, 0], f = \text{Coeff}[\text{PolynomialRemainder}[x^m*(c + d*x)^n, a + b*x^2, x], x, 1]\}$ ,  $\text{Simp}[(a*f - b*e*x)*((a + b*x^2)^{(p + 1)/(2*a*b*(p + 1))}, x] + \text{Simp}[1/(2*a*(p + 1)) \text{Int}[(c + d*x)^n*(a + b*x^2)^{(p + 1)*\text{ExpandToSum}[(2*a*(p + 1)*Qx]/(c + d*x)^n + (e*(2*p + 3))/(c + d*x)^n, x], x], x]$  /;  $\text{FreeQ}\{a, b, c, d\}, x$  &&  $\text{IGtQ}[m, 1]$  &&  $\text{LtQ}[p, -1]$  &&  $\text{ILtQ}[n, 0]$  &&  $\text{NeQ}[b*c^2 + a*d^2, 0]$

602.  $\text{Int}[(x)^{(m_*)}*((c) + (d_*)(x))^{(n_*)}*((a) + (b_*)(x)^2)^{(p_*)}, x\_Symbol]$   $\rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[x^m, a + b*x^2, x], e = \text{Coeff}[\text{PolynomialRemainder}[x^m, a + b*x^2, x], x, 0], f = \text{Coeff}[\text{PolynomialRemainder}[x^m, a + b*x^2, x], x, 1]\}$ ,  $\text{Simp}[(-c + d*x)^{(n + 1)}*(a + b*x$

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^2)^(p + 1)*((a*(d*e - c*f) + (b*c*e + a*d*f)*x)/(2*a*(p + 1)*(b*c^2 +
a*d^2))), x] + Simp[1/(2*a*(p + 1)*(b*c^2 + a*d^2)) Int[(c + d*x)^n
*(a + b*x^2)^(p + 1)*ExpandToSum[2*a*(p + 1)*(b*c^2 + a*d^2)*Qx + e*(b
c^2(2*p + 3) + a*d^2*(n + 2*p + 3)) - a*c*d*f*n + d*(b*c*e + a*d*f)*
(n + 2*p + 4)*x, x], x] /; FreeQ[{a, b, c, d, n}, x] && IGtQ[m, 1
] && LtQ[p, -1] && NeQ[b*c^2 + a*d^2, 0]

```

603. `Int[(x_)^(m_)*((c_) + (d_.)*(x_))^(n_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := With[{Qx = PolynomialQuotient[x^m, c + d*x, x], R = PolynomialRemainder[x^m, c + d*x, x]}, Simp[d*R*(c + d*x)^(n + 1)*((a + b*x^2)^(p + 1)/((n + 1)*(b*c^2 + a*d^2))), x] + Simp[1/((n + 1)*(b*c^2 + a*d^2)) Int[(c + d*x)^(n + 1)*(a + b*x^2)^p*ExpandToSum[(n + 1)*(b*c^2 + a*d^2)*Qx + b*c*R*(n + 1) - b*d*R*(n + 2*p + 3)*x, x], x], x] /; FreeQ[{a, b, c, d, p}, x] && IGtQ[m, 1] && LtQ[n, -1] && NeQ[b*c^2 + a*d^2, 0]`

604. `Int[(x_)^(m_)*((c_) + (d_.)*(x_))^(n_)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Simp[(c + d*x)^(m + n - 1)*((a + b*x^2)^(p + 1)/(b*d^(m - 1)*(m + n + 2*p + 1))), x] + Simp[1/(b*d^m*(m + n + 2*p + 1)) Int[(c + d*x)^n*(a + b*x^2)^p*ExpandToSum[b*d^m*(m + n + 2*p + 1)*x^m - b*(m + n + 2*p + 1)*(c + d*x)^m - (c + d*x)^(m - 2)*(a*d^2*(m + n - 1) - b*c^2*(m + n + 2*p + 1) - 2*b*c*d*(m + n + p)*x), x], x], x] /; FreeQ[{a, b, c, d, n, p}, x] && IGtQ[m, 1] && NeQ[m + n + 2*p + 1, 0] && IntegerQ[2*p]`

605. `Int[((x_)^(m_.)*((a_) + (b_.)*(x_)^2)^(p_))/((c_) + (d_.)*(x_)), x_Symbol] := Simp[1/d Int[x^(m - 1)*(a + b*x^2)^p, x], x] - Simp[c/d Int[x^(m - 1)*((a + b*x^2)^p/(c + d*x)), x], x] /; FreeQ[{a, b, c, d, p}, x] && IGtQ[m, 0] && LtQ[-1, p, 0]`

606. `Int[(((c_) + (d_.)*(x_))^(n_)*((a_) + (b_.)*(x_)^2)^(p_))/(x_), x_Symbol] := Simp[a/c Int[(c + d*x)^(n + 1)*((a + b*x^2)^(p - 1)/x), x], x] - Simp[1/c Int[(c + d*x)^n*(a*d - b*c*x)*(a + b*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d}, x] && GtQ[p, 0] && ILtQ[n, 0]`

607. `Int[(((e_.)*(x_))^(m_)*((c_) + (d_.)*(x_))^(n_))/((a_) + (b_.)*(x_)^2), x_Symbol] := Simp[e*(d/b) Int[(e*x)^(m - 1)*(c + d*x)^(n - 2)*(2*c`

- $$+ d*x), x], x] - \text{Simp}[e/b \quad \text{Int}[(e*x)^{(m-1)}*(c + d*x)^{(n-2)}*(\text{Simp}[2*a*c*d - (b*c^2 - a*d^2)*x, x]/(a + b*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[n, 1] \&\& \text{GtQ}[m, 0] \&\& !\text{IntegerQ}[m] \&\& !\text{IntegerQ}[n]$$
608. 
$$\text{Int}[(((e\_)*(x\_))^{(m\_)}*((c\_)+(d\_)*(x\_))^{(n\_)})/((a\_)+(b\_)*(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[e^2/b \quad \text{Int}[(e*x)^{(m-2)}*(c + d*x)^n, x], x] - \text{Simp}[a*(e^2/b \quad \text{Int}[(e*x)^{(m-2)}*((c + d*x)^n/(a + b*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{LtQ}[0, n, 1] \&\& \text{GtQ}[m, 1] \&\& !\text{IntegerQ}[m] \&\& !\text{IntegerQ}[n]$$
609. 
$$\text{Int}[(((e\_)*(x\_))^{(m\_)}*((c\_)+(d\_)*(x\_))^{(n\_)})/((a\_)+(b\_)*(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[d*(e/b \quad \text{Int}[(e*x)^{(m-1)}*(c + d*x)^{(n-1)}, x], x] - \text{Simp}[e/b \quad \text{Int}[(e*x)^{(m-1)}*(c + d*x)^{(n-1)}*((a*d - b*c*x)/(a + b*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{LtQ}[0, n, 1] \&\& \text{LtQ}[0, m, 1] \&\& !\text{IntegerQ}[m] \&\& !\text{IntegerQ}[n]$$
610. 
$$\text{Int}[(((e\_)*(x\_))^{(m\_)}*((c\_)+(d\_)*(x\_))^{(n\_)})/((a\_)+(b\_)*(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[e^{(m+1/2)} \quad \text{Int}[\text{ExpandIntegrand}[1/(\text{Sqrt}[e*x]*\text{Sqrt}[c + d*x]), x^{(m+1/2)}*((c + d*x)^{(n+1/2)}/(a + b*x^2)), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[n + 1/2, 0] \&\& \text{ILtQ}[m - 1/2, 0]$$
611. 
$$\text{Int}[(((e\_)*(x\_))^{(m\_)}*((c\_)+(d\_)*(x\_))^{(n\_)})/((a\_)+(b\_)*(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[c/a \quad \text{Int}[(e*x)^m*(c + d*x)^{(n-1)}, x], x] + \text{Simp}[1/(a*e \quad \text{Int}[(e*x)^{(m+1)}*(c + d*x)^{(n-1)}*((a*d - b*c*x)/(a + b*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[m, -1] \&\& !\text{IntegerQ}[m] \&\& !\text{IntegerQ}[n]$$
612. 
$$\text{Int}[(((e\_)*(x\_))^{(m\_)}*((c\_)+(d\_)*(x\_))^{(n\_)})/((a\_)+(b\_)*(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[(-e)*c*(d/(b*c^2 + a*d^2)) \quad \text{Int}[(e*x)^{(m-1)}*(c + d*x)^n, x], x] + \text{Simp}[e/(b*c^2 + a*d^2) \quad \text{Int}[(e*x)^{(m-1)}*(c + d*x)^{(n+1)}*((a*d + b*c*x)/(a + b*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{GtQ}[m, 0] \&\& !\text{IntegerQ}[m] \&\& !\text{IntegerQ}[n]$$
613. 
$$\text{Int}[\text{Sqrt}[(e\_)*(x\_)]/(\text{Sqrt}[(c\_)+(d\_)*(x\_)]*((a\_)+(b\_)*(x\_)^2)), x\_Symbol] \rightarrow \text{Simp}[e/(2*b) \quad \text{Int}[1/(\text{Sqrt}[e*x]*\text{Sqrt}[c + d*x]*(\text{Rt}[-a/b, 2] + x)), x], x] - \text{Simp}[e/(2*b) \quad \text{Int}[1/(\text{Sqrt}[e*x]*\text{Sqrt}[c + d*x]*(\text{Rt}[-a$$

/b, 2] - x)), x], x] /; FreeQ[{a, b, c, d, e}, x]

614. Int[((e\_)\*(x\_))^(m\_)/(Sqrt[(c\_) + (d\_)\*(x\_)]\*((a\_) + (b\_)\*(x\_)^2)),  
x\_Symbol] := Simp[e^(m + 1/2) Int[ExpandIntegrand[1/(Sqrt[e\*x]\*Sqrt  
[c + d\*x]), x^(m + 1/2)/(a + b\*x^2), x], x], x] /; FreeQ[{a, b, c, d,  
e}, x] && IGtQ[m - 1/2, 0]

615. Int[((e\_)\*(x\_))^(m\_)\*((c\_) + (d\_)\*(x\_))^(n\_)\*((a\_) + (b\_)\*(x\_)^2)^(  
p\_), x\_Symbol] := Int[ExpandIntegrand[(e\*x)^m\*(c + d\*x)^n\*(a + b\*x^2)  
^p, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && ILtQ[p, 0]

616. Int[((e\_)\*(x\_))^(m\_)\*((c\_) + (d\_)\*(x\_))^(n\_)\*((a\_) + (b\_)\*(x\_)^2)^(  
p\_), x\_Symbol] := With[{k = Denominator[m]}, Simp[k/e Subst[Int[x^(k  
\*(m + 1) - 1)\*(c + d\*(x^k/e))^n\*(a + b\*(x^(2\*k)/e^2))^p, x], x, (e\*x)^(  
1/k)], x] /; FreeQ[{a, b, c, d, e, p}, x] && ILtQ[n, 0] && FractionQ  
[m]

617. Int[(x\_)^((m\_)\*((c\_) + (d\_)\*(x\_))^(n\_)\*((a\_) + (b\_)\*(x\_)^2)^(p\_), x\_  
Symbol] := Int[ExpandIntegrand[(a + b\*x^2)^p, x^m\*(c + d\*x)^n, x], x]  
/; FreeQ[{a, b, c, d, p}, x] && ILtQ[n, 0] && IntegerQ[m] && IntegerQ[  
2\*p]

618. Int[Sqrt[(e\_)\*(x\_)]/(((c\_) + (d\_)\*(x\_))\*Sqrt[(a\_) + (b\_)\*(x\_)^2]),  
x\_Symbol] := Simp[e/d Int[1/(Sqrt[e\*x]\*Sqrt[a + b\*x^2]), x], x] - Si  
mp[c\*(e/d) Int[1/(Sqrt[e\*x]\*(c + d\*x)\*Sqrt[a + b\*x^2]), x], x] /; Fr  
eeQ[{a, b, c, d, e}, x]

619. Int[1/(Sqrt[(e\_)\*(x\_)]\*((c\_) + (d\_)\*(x\_))\*Sqrt[(a\_) + (b\_)\*(x\_)^2])  
, x\_Symbol] := Simp[1/Sqrt[a] Int[1/(Sqrt[e\*x]\*(c + d\*x)\*Sqrt[1 - Rt  
[-b/a, 2]\*x]\*Sqrt[1 + Rt[-b/a, 2]\*x]), x], x] /; FreeQ[{a, b, c, d, e}  
, x] && GtQ[a, 0]

620. Int[1/(Sqrt[(e\_)\*(x\_)]\*((c\_) + (d\_)\*(x\_))\*Sqrt[(a\_) + (b\_)\*(x\_)^2])  
, x\_Symbol] := Simp[Sqrt[1 + b\*(x^2/a)]/Sqrt[a + b\*x^2] Int[1/(Sqrt[  
e\*x]\*(c + d\*x)\*Sqrt[1 + b\*(x^2/a)]), x], x] /; FreeQ[{a, b, c, d, e},  
x] && !GtQ[a, 0]

621.  $\text{Int}[(x_)^{(m_)}*((a_) + (b_)*(x_)^2)^{(p_)} / ((c_) + (d_)*(x_)), x\_Symbol] \rightarrow \text{Simp}[c \text{ Int}[x^m*((a + b*x^2)^p/(c^2 - d^2*x^2)), x], x] - \text{Simp}[d \text{ Int}[x^{(m+1)}*((a + b*x^2)^p/(c^2 - d^2*x^2)), x], x] /;$   $\text{FreeQ}\{a, b, c, d, m, p\}, x]$
622.  $\text{Int}[(x_)^{(m_)}*((c_) + (d_)*(x_))^{(n_)}*((a_) + (b_)*(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[x^m*(a + b*x^2)^p, (c/(c^2 - d^2*x^2) - d*(x/(c^2 - d^2*x^2)))^{(-n)}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, m, p\}, x] \& \& \text{ILtQ}[n, -1]$
623.  $\text{Int}[(e)*(x_)^{(m_)}*((c_) + (d_)*(x_))^{(n_)}*((a_) + (b_)*(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(e*x)^m/x^m \text{ Int}[x^m*(c + d*x)^n*(a + b*x^2)^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, p\}, x] \& \& \text{ILtQ}[n, 0]$
624.  $\text{Int}[(x_)^{(m_)}*((c_) + (d_)*(x_))^{(n_)}*((a_) + (b_)*(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Int}[x^{(m-1)}*(c + d*x)^{(n+1)}*(a + b*x^2)^p, x], x] - \text{Simp}[c/d \text{ Int}[x^{(m-1)}*(c + d*x)^n*(a + b*x^2)^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, n, p\}, x] \& \& \text{IGtQ}[m, 0]$
625.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2] / ((x_)*\text{Sqrt}[(c_) + (d_)*(x_)]), x\_Symbol] \rightarrow \text{Simp}[-2 \text{ Subst}[\text{Int}[\text{Sqrt}[(b*c^2 + a*d^2)/d^2 - 2*b*c*(x^2/d^2) + b*(x^4/d^2)] / (c - x^2), x], x, \text{Sqrt}[c + d*x]], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x] \& \& \text{PosQ}[b/a]$
626.  $\text{Int}[(((c_) + (d_)*(x_))^{(n_)}*\text{Sqrt}[(a_) + (b_)*(x_)^2]) / (x_), x\_Symbol] \rightarrow \text{Simp}[a*c^{(n+1/2)} \text{ Int}[1/(x*\text{Sqrt}[c + d*x]*\text{Sqrt}[a + b*x^2]), x], x] + \text{Int}[(1/(\text{Sqrt}[c + d*x]*\text{Sqrt}[a + b*x^2]))*\text{ExpandToSum}[((-a)*c^{(n+1/2)} + a*(c + d*x)^{(n+1/2)} + b*x^2*(c + d*x)^{(n+1/2)})/x, x], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x] \& \& \text{IGtQ}[n + 3/2, 0]$
627.  $\text{Int}[(((c_) + (d_)*(x_))^{(n_)}*\text{Sqrt}[(a_) + (b_)*(x_)^2]) / (x_), x\_Symbol] \rightarrow \text{Simp}[a*c^{(n+1/2)} \text{ Int}[1/(x*\text{Sqrt}[c + d*x]*\text{Sqrt}[a + b*x^2]), x], x] + \text{Int}[((c + d*x)^n/\text{Sqrt}[a + b*x^2])*\text{ExpandToSum}[(a + b*x^2 - a*c^{(n+1/2)}*(c + d*x)^{(-n-1/2)})/x, x], x] /;$   $\text{FreeQ}\{a, b, c, d\}, x] \& \& \text{ILtQ}[n + 1/2, 0]$



628.  $\text{Int}[(e \cdot x)^m \cdot (c + d \cdot x)^n \cdot \sqrt{a + b \cdot x^2}], x_{\text{Symbol}}] \rightarrow \text{Simp}[c^{(n-1/2)} \cdot (e \cdot x)^{m+1} \cdot \sqrt{c + d \cdot x} \cdot (\sqrt{a + b \cdot x^2}) / (e^{m+1}), x] - \text{Simp}[1 / (2 \cdot e^{m+1}) \cdot \text{Int}[(e \cdot x)^{m+1} / (\sqrt{c + d \cdot x} \cdot \sqrt{a + b \cdot x^2})] \cdot \text{ExpandToSum}[(2 \cdot a \cdot c^{(n+1/2)} \cdot (m+1) + a \cdot c^{(n-1/2)} \cdot d \cdot (2 \cdot m + 3) \cdot x + 2 \cdot b \cdot c^{(n+1/2)} \cdot (m+2) \cdot x^2 + b \cdot c^{(n-1/2)} \cdot d \cdot (2 \cdot m + 5) \cdot x^3 - 2 \cdot a \cdot (m+1) \cdot (c + d \cdot x)^{(n+1/2)} - 2 \cdot b \cdot (m+1) \cdot x^2 \cdot (c + d \cdot x)^{(n+1/2)}) / x, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{IGtQ}[n + 3/2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{IntegerQ}[2 \cdot m]$
629.  $\text{Int}[(e \cdot x)^m \cdot \sqrt{c + d \cdot x} \cdot \sqrt{a + b \cdot x^2}], x_{\text{Symbol}}] \rightarrow \text{Simp}[2 \cdot (e \cdot x)^{m+1} \cdot \sqrt{c + d \cdot x} \cdot (\sqrt{a + b \cdot x^2}) / (e^{2 \cdot m + 5}), x] + \text{Simp}[1 / (2 \cdot m + 5) \cdot \text{Int}[(e \cdot x)^m \cdot (3 \cdot a \cdot c + 2 \cdot a \cdot d \cdot x + b \cdot c \cdot x^2) / (\sqrt{c + d \cdot x} \cdot \sqrt{a + b \cdot x^2})], x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x\} \&\& \text{!LtQ}[m, -1] \&\& \text{IntegerQ}[2 \cdot m]$
630.  $\text{Int}[\sqrt{c + d \cdot x} / ((x) \cdot \sqrt{a + b \cdot x^2}), x_{\text{Symbol}}] \rightarrow \text{Simp}[-2 \cdot \text{Subst}[\text{Int}[x^2 / ((c - x^2) \cdot \sqrt{(b \cdot c^2 + a \cdot d^2) / d^2 - 2 \cdot b \cdot c \cdot (x^2 / d^2) + b \cdot (x^4 / d^2)})], x], x, \sqrt{c + d \cdot x}], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{PosQ}[b/a]$
631.  $\text{Int}[1 / ((x) \cdot \sqrt{c + d \cdot x} \cdot \sqrt{a + b \cdot x^2}), x_{\text{Symbol}}] \rightarrow \text{Simp}[-2 \cdot \text{Subst}[\text{Int}[1 / ((c - x^2) \cdot \sqrt{(b \cdot c^2 + a \cdot d^2) / d^2 - 2 \cdot b \cdot c \cdot (x^2 / d^2) + b \cdot (x^4 / d^2)})], x], x, \sqrt{c + d \cdot x}], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{PosQ}[b/a]$
632.  $\text{Int}[1 / ((x) \cdot \sqrt{c + d \cdot x} \cdot \sqrt{a + b \cdot x^2}), x_{\text{Symbol}}] \rightarrow \text{With}\{q = \text{Rt}[-b/a, 2]\}, \text{Simp}[1 / \sqrt{a} \cdot \text{Int}[1 / (x \cdot \sqrt{c + d \cdot x} \cdot \sqrt{1 - q \cdot x} \cdot \sqrt{1 + q \cdot x})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NegQ}[b/a] \&\& \text{GtQ}[a, 0]$
633.  $\text{Int}[1 / ((x) \cdot \sqrt{c + d \cdot x} \cdot \sqrt{a + b \cdot x^2}), x_{\text{Symbol}}] \rightarrow \text{Simp}[\sqrt{1 + b \cdot (x^2/a)} / \sqrt{a + b \cdot x^2} \cdot \text{Int}[1 / (x \cdot \sqrt{c + d \cdot x} \cdot \sqrt{1 + b \cdot (x^2/a)})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NegQ}[b/a] \&\& \text{!GtQ}[a, 0]$

634. `Int[((c_) + (d_)*(x_))^(n_)/((x_)*Sqrt[(a_) + (b_)*(x_)^2]), x_Symbol] := Simp[c^(n + 1/2) Int[1/(x*Sqrt[c + d*x]*Sqrt[a + b*x^2]), x], x] - Int[(1/(Sqrt[c + d*x]*Sqrt[a + b*x^2]))*ExpandToSum[(c^(n + 1/2) - (c + d*x)^(n + 1/2))/x, x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[n - 1/2, 0]`
635. `Int[((c_) + (d_)*(x_))^(n_)/((x_)*Sqrt[(a_) + (b_)*(x_)^2]), x_Symbol] := Simp[c^(n + 1/2) Int[1/(x*Sqrt[c + d*x]*Sqrt[a + b*x^2]), x], x] + Int[((c + d*x)^n/Sqrt[a + b*x^2])*ExpandToSum[(1 - c^(n + 1/2)*(c + d*x)^(-n - 1/2))/x, x], x] /; FreeQ[{a, b, c, d}, x] && ILtQ[n + 1/2, 0]`
636. `Int[(((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_))/Sqrt[(a_) + (b_)*(x_)^2], x_Symbol] := Simp[c^(n - 1/2)*(e*x)^(m + 1)*Sqrt[c + d*x]*(Sqrt[a + b*x^2]/(a*e*(m + 1))), x] - Simp[1/(2*a*e*(m + 1)) Int[((e*x)^(m + 1)/(Sqrt[c + d*x]*Sqrt[a + b*x^2]))*ExpandToSum[(2*a*c^(n + 1/2)*(m + 1) + a*c^(n - 1/2)*d*(2*m + 3)*x + 2*b*c^(n + 1/2)*(m + 2)*x^2 + b*c^(n - 1/2)*d*(2*m + 5)*x^3 - 2*a*(m + 1)*(c + d*x)^(n + 1/2))/x, x], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[n + 3/2, 0] && LtQ[m, -1] && IntegerQ[2*m]`
637. `Int[(x_)^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[ExpandIntegrand[(a + b*x^2)^p/Sqrt[c + d*x], x]^m*(c + d*x)^(n + 1/2), x], x] /; FreeQ[{a, b, c, d, m}, x] && IntegerQ[p + 1/2] && IntegerQ[n + 1/2] && IntegerQ[m]`
638. `Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Unintegrable[(e*x)^m*(c + d*x)^n*(a + b*x^2)^p, x] /; FreeQ[{a, b, c, d, e, m, n, p}, x]`
639. `Int[((c_) + (d_)*(x_))^(m_)*((e_) + (f_)*(x_))^(n_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[(c + d*x)^(m + p)*(e + f*x)^n*(a/c + (b/d)*x)^p, x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && EqQ[b*c^2 + a*d^2, 0] && (IntegerQ[p] || (GtQ[a, 0] && GtQ[c, 0] && !IntegerQ[m]))`

640.  $\text{Int}[(d_.) + (e_.)x^{m_.)}((f_.) + (g_.)x^{n_.)}((a_.) + (c_.)x^2)^{p_.)}, x\_Symbol] \rightarrow \text{Simp}[(g/e)^n \text{Int}[(d + ex)^{m+n}(a + cx^2)^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[e*f - d*g, 0] \&\& \text{IntegerQ}[n] \&\& \text{!(IntegerQ}[m] \&\& \text{SimplerQ}[f + gx, d + ex])]$
641.  $\text{Int}[(d_.) + (e_.)x^{m_.)}((f_.) + (g_.)x^{n_.)}((a_.) + (c_.)x^2)^{p_.)}, x\_Symbol] \rightarrow \text{Simp}[(e/g)^m \text{Int}[(f + gx)^{m+n}(a + cx^2)^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[e*f - d*g, 0] \&\& \text{GtQ}[e/g, 0]$
642.  $\text{Int}[(d_.) + (e_.)x^{m_.)}((f_.) + (g_.)x^{n_.)}((a_.) + (c_.)x^2)^{p_.)}, x\_Symbol] \rightarrow \text{Simp}[(d + ex)^m/(f + gx)^m \text{Int}[(f + gx)^{m+n}(a + cx^2)^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[e*f - d*g, 0]$
643.  $\text{Int}[(c_.) + (d_.)x^{m_.)}((e_.) + (f_.)x^{n_.)}((a_.) + (b_.)x^2)^{p_.)}, x\_Symbol] \rightarrow \text{Int}[(c*e + d*f*x^2)^m(a + b*x^2)^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{EqQ}[m, n] \&\& \text{EqQ}[d*e + c*f, 0] \&\& (\text{IntegerQ}[m] \mid\mid (\text{GtQ}[c, 0] \&\& \text{GtQ}[e, 0]))]$
644.  $\text{Int}[(c_.) + (d_.)x^{m_.)}((e_.) + (f_.)x^{n_.)}((a_.) + (b_.)x^2), x\_Symbol] \rightarrow \text{Simp}[a*x*(c + d*x)^{m+1}((e + f*x)^{n+1}/(c*e)), x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{EqQ}[m, n] \&\& \text{EqQ}[d*e + c*f, 0] \&\& \text{EqQ}[b*c*e - a*d*f*(2*m + 3), 0]$
645.  $\text{Int}[(c_.) + (d_.)x^{m_.)}((e_.) + (f_.)x^{n_.)}((a_.) + (b_.)x^2), x\_Symbol] \rightarrow \text{Simp}[(b*c*e - a*d*f)*x*(c + d*x)^{m+1}((e + f*x)^{n+1}/(2*c*d*e*f*(m+1))), x] - \text{Simp}[(b*c*e - a*d*f*(2*m + 3))/(2*c*d*e*f*(m+1)) \text{Int}[(c + d*x)^{m+1}(e + f*x)^{n+1}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{EqQ}[m, n] \&\& \text{EqQ}[d*e + c*f, 0] \&\& \text{LtQ}[m, -1]$
646.  $\text{Int}[(c_.) + (d_.)x^{m_.)}((e_.) + (f_.)x^{n_.)}((a_.) + (b_.)x^2), x\_Symbol] \rightarrow \text{Simp}[b*x*(c + d*x)^{m+1}((e + f*x)^{n+1}/(d*f*(2*m + 3))), x] - \text{Simp}[(b*c*e - a*d*f*(2*m + 3))/(d*f*(2*m + 3)) \text{Int}[(c + d*x)^m*(e + f*x)^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}$

- , x] && EqQ[m, n] && EqQ[d\*e + c\*f, 0] && !LtQ[m, -1]
647.  $\text{Int}[(\text{Sqrt}[(c\_)+(d\_)(x\_)]*\text{Sqrt}[(e\_)+(f\_)(x\_)])/((a\_)+(b\_)(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[d*(f/b) \text{ Int}[1/(\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x]), x], x] + \text{Simp}[1/b \text{ Int}[(b*c*e - a*d*f)/(\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x])*(a + b*x^2)], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[d*e + c*f, 0]$
648.  $\text{Int}[((c\_)+(d\_)(x\_))^{(m\_)}*((e\_)+(f\_)(x\_))^{(n\_)}*((a\_)+(b\_)(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(c + d*x)^{\text{FracPart}[m]}*((e + f*x)^{\text{FracPart}[m]}/(c*e + d*f*x^2)^{\text{FracPart}[m]}) \text{ Int}[(c*e + d*f*x^2)^m*(a + b*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{EqQ}[m, n] \&\& \text{EqQ}[d*e + c*f, 0] \&\& !(\text{EqQ}[p, 2] \&\& \text{LtQ}[m, -1])$
649.  $\text{Int}[((d\_)+(e\_)(x\_))^{(m\_)}*((f\_)+(g\_)(x\_))^{(n\_)}*((a\_)+(c\_)(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[2/e^{(n + 2*p + 1)} \text{ Subst}[\text{Int}[x^{(2*m + 1)}*(e*f - d*g + g*x^2)^n*(c*d^2 + a*e^2 - 2*c*d*x^2 + c*x^4)^p, x], x, \text{Sqrt}[d + e*x]], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{IntegerQ}[m + 1/2]$
650.  $\text{Int}[((d\_)+(e\_)(x\_))^{(m\_)}*((f\_)+(g\_)(x\_))^{(n\_)}*((a\_)+(c\_)(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[(a + c*x^2)^p, d + e*x, x], R = \text{PolynomialRemainder}[(a + c*x^2)^p, d + e*x, x]\}, \text{Simp}[R*(d + e*x)^{(m + 1)}*((f + g*x)^{(n + 1)}/((m + 1)*(e*f - d*g))), x] + \text{Simp}[1/((m + 1)*(e*f - d*g)) \text{ Int}[(d + e*x)^{(m + 1)}*(f + g*x)^n*\text{ExpandToSum}[(m + 1)*(e*f - d*g)*Qx - g*R*(m + n + 2), x], x], x] /; \text{FreeQ}\{a, c, d, e, f, g, n\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[2*m, -2] \&\& !\text{IntegerQ}[n]$
651.  $\text{Int}[((d\_)+(e\_)(x\_))^{(m\_)}*((f\_)+(g\_)(x\_))^{(n\_)}*((a\_)+(c\_)(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[c^p*(d + e*x)^{(m + 2*p)}*((f + g*x)^{(n + 1)}/(g*e^{(2*p)}*(m + n + 2*p + 1))), x] + \text{Simp}[1/(g*e^{(2*p)}*(m + n + 2*p + 1)) \text{ Int}[(d + e*x)^m*(f + g*x)^n*\text{ExpandToSum}[g*(m + n + 2*p + 1)*(e^{(2*p)}*(a + c*x^2)^p - c^p*(d + e*x)^{(2*p)}) - c^p*(e*f - d*g)*(m + 2*p)*(d + e*x)^{(2*p - 1)}, x], x], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& !\text{IntegerQ}[m] \&\& !\text{IntegerQ}[n] \&\& \text{NeQ}[m + n + 2*p + 1, 0]$

652.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})} \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)^m*(f + g*x)^n*(a + c*x^2)^p, x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, n\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
653.  $\text{Int}[\left(\left(\left(d_{\cdot}\right) + \left(e_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(m_{\cdot}\right)} \left(\left(f_{\cdot}\right) + \left(g_{\cdot}\right)\left(x_{\cdot}\right)\right)\right) / \left(\left(a_{\cdot}\right) + \left(c_{\cdot}\right)\left(x_{\cdot}\right)^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[g*(d + e*x)^m/(c*m), x] + \text{Simp}[1/c \ \text{Int}[(d + e*x)^{m-1}*(\text{Simp}[c*d*f - a*e*g + (g*c*d + c*e*f)*x, x]/(a + c*x^2)), x], x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \ \&\& \ \text{FractionQ}[m] \ \&\& \ \text{GtQ}[m, 0]$
654.  $\text{Int}[\left(\left(f_{\cdot}\right) + \left(g_{\cdot}\right)\left(x_{\cdot}\right)\right) / \left(\text{Sqrt}[\left(d_{\cdot}\right) + \left(e_{\cdot}\right)\left(x_{\cdot}\right)] * \left(\left(a_{\cdot}\right) + \left(c_{\cdot}\right)\left(x_{\cdot}\right)^2\right)\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[2 \ \text{Subst}[\text{Int}[(e*f - d*g + g*x^2)/(c*d^2 + a*e^2 - 2*c*d*x^2 + c*x^4), x], x, \text{Sqrt}[d + e*x]], x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x]$
655.  $\text{Int}[\left(\left(\left(d_{\cdot}\right) + \left(e_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(m_{\cdot}\right)} \left(\left(f_{\cdot}\right) + \left(g_{\cdot}\right)\left(x_{\cdot}\right)\right)\right) / \left(\left(a_{\cdot}\right) + \left(c_{\cdot}\right)\left(x_{\cdot}\right)^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(e*f - d*g)*((d + e*x)^{m+1}/((m+1)*(c*d^2 + a*e^2))), x] + \text{Simp}[1/(c*d^2 + a*e^2) \ \text{Int}[(d + e*x)^{m+1}*(\text{Simp}[c*d*f + a*e*g - c*(e*f - d*g)*x, x]/(a + c*x^2)), x], x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \ \&\& \ \text{FractionQ}[m] \ \&\& \ \text{LtQ}[m, -1]$
656.  $\text{Int}[\left(\left(\left(d_{\cdot}\right) + \left(e_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(m_{\cdot}\right)} \left(\left(f_{\cdot}\right) + \left(g_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(n_{\cdot}\right)}\right) / \left(\left(a_{\cdot}\right) + \left(c_{\cdot}\right)\left(x_{\cdot}\right)^2\right), x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Denominator}[m]\}, \text{Simp}[q/e \ \text{Subst}[\text{Int}[\text{ExpandIntegrand}[x^{(q*(m+1)-1)}*((e*f - d*g)/e + g*(x^q/e))^n/((c*d^2 + a*e^2)/e^2 - 2*c*d*(x^q/e^2) + c*(x^(2*q)/e^2)), x], x], x, (d + e*x)^{(1/q)}], x]] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{FractionQ}[m]$
657.  $\text{Int}[\left(\left(\left(d_{\cdot}\right) + \left(e_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(m_{\cdot}\right)} \left(\left(f_{\cdot}\right) + \left(g_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(n_{\cdot}\right)}\right) / \left(\left(a_{\cdot}\right) + \left(c_{\cdot}\right)\left(x_{\cdot}\right)^2\right), x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)^m*(f + g*x)^n/(a + c*x^2), x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m\}, x] \ \&\& \ \text{IntegersQ}[n]$
658.  $\text{Int}[\left(\left(\left(d_{\cdot}\right) + \left(e_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(m_{\cdot}\right)} \left(\left(f_{\cdot}\right) + \left(g_{\cdot}\right)\left(x_{\cdot}\right)\right)^{\left(n_{\cdot}\right)}\right) / \left(\left(a_{\cdot}\right) + \left(c_{\cdot}\right)\left(x_{\cdot}\right)^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[g/c \ \text{Int}[\text{Simp}[2*e*f + d*g + e*g*x, x]*(d$

```

+ e*x)^(m - 1)*(f + g*x)^(n - 2), x], x] + Simp[1/c Int[Simp[c*d*f^
2 - 2*a*e*f*g - a*d*g^2 + (c*e*f^2 + 2*c*d*f*g - a*e*g^2)*x, x]*(d + e
x)^(m - 1)((f + g*x)^(n - 2)/(a + c*x^2)), x], x] /; FreeQ[{a, c, d,
e, f, g}, x] && !IntegerQ[m] && !IntegerQ[n] && GtQ[m, 0] && GtQ[n,
1]

```

```

659. Int[(((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))^(n_))/((a_.) + (c_.
)*(x_)^2), x_Symbol] :> Simp[e*(g/c Int[(d + e*x)^(m - 1)*(f + g*x)
^(n - 1), x], x] + Simp[1/c Int[Simp[c*d*f - a*e*g + (c*e*f + c*d*g)
x, x](d + e*x)^(m - 1)*((f + g*x)^(n - 1)/(a + c*x^2)), x], x] /; Fr
eeQ[{a, c, d, e, f, g}, x] && !IntegerQ[m] && !IntegerQ[n] && GtQ[m,
0] && GtQ[n, 0]

```

```

660. Int[(((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))^(n_))/((a_.) + (c_.
)*(x_)^2), x_Symbol] :> Simp[(-g)*((e*f - d*g)/(c*f^2 + a*g^2)) Int[
(d + e*x)^(m - 1)*(f + g*x)^n, x], x] + Simp[1/(c*f^2 + a*g^2) Int[S
imp[c*d*f + a*e*g + c*(e*f - d*g)*x, x]*(d + e*x)^(m - 1)*((f + g*x)^(
n + 1)/(a + c*x^2)), x], x] /; FreeQ[{a, c, d, e, f, g}, x] && !Integ
erQ[m] && !IntegerQ[n] && GtQ[m, 0] && LtQ[n, -1]

```

```

661. Int[(((d_.) + (e_.)*(x_))^(m_)/(Sqrt[(f_.) + (g_.)*(x_)]*((a_.) + (c_.
)*(x_)^2)), x_Symbol] :> Int[ExpandIntegrand[1/(Sqrt[d + e*x]*Sqrt[f +
g*x]), (d + e*x)^(m + 1/2)/(a + c*x^2), x], x] /; FreeQ[{a, c, d, e, f
, g}, x] && IGtQ[m + 1/2, 0]

```

```

662. Int[(((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))^(n_))/((a_.) + (c_.
)*(x_)^2), x_Symbol] :> Int[ExpandIntegrand[(d + e*x)^m*(f + g*x)^n, 1
/(a + c*x^2), x], x] /; FreeQ[{a, c, d, e, f, g, m, n}, x] && !Intege
rQ[m] && !IntegerQ[n]

```

```

663. Int[(((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))^(n_))*((a_.) + (c_.
)*(x_)^2)^(p_), x_Symbol] :> With[{q = Rt[(-a)*c, 2]}, Simp[1/c^p I
nt[ExpandIntegrand[(d + e*x)^m*(f + g*x)^n*(-q + c*x)^p*(q + c*x)^p, x
], x], x] /; !FractionalPowerFactorQ[q]] /; FreeQ[{a, c, d, e, f, g},
x] && ILtQ[p, -1] && IntegersQ[m, n] && NiceSqrtQ[(-a)*c]

```

664.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^2 \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[g^2(d + ex)^{(m+1)}((a + cx^2)^{(p+1})/(c e^{m+2p+3}))], x] /;$   $\text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \ \&\& \ \text{EqQ}[d g (p+1) - e f (m+2p+3), 0] \ \&\& \ \text{EqQ}[e(c f^2 + a g^2)(m+1) + 2 c f (e f - d g)(p+1), 0] \ \&\& \ \text{NeQ}[m+2p+3, 0]$
665.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})} / \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(3/2)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-2^{(m-1)}) d^{(m-2)} (ef + dg)^n (d + ex) / (c e^{(n-1)} \text{Sqrt}[a + cx^2])], x] + \text{Simp}[1 / (c e^{(n-2)}) \text{Int}[\text{ExpandToSum}[(2^{(m-1)} d^{(m-1)} (ef + dg)^n - e^n (d + ex)^{(m-1)} (f + gx)^n) / (d - ex), x] / \text{Sqrt}[a + cx^2], x], x] /;$   $\text{FreeQ}[\{a, c, d, e, f, g\}, x] \ \&\& \ \text{EqQ}[c d^2 + a e^2, 0] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{IGtQ}[n, 0]$
666.  $\text{Int}[\left((x_{\cdot})^{(n_{\cdot})} \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}\right) / \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(3/2)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-2^{(m-1)}) d^{(m+n-2)} (d + ex) / (c e^{(n-1)} \text{Sqrt}[a + cx^2])], x] + \text{Simp}[d^2/a \text{Int}[\text{ExpandToSum}[(d + ex)^{(m-1)} - (2^{(m-1)} d^{(m+n-1)}) / (e^n x^n)] / (d - ex), x] / (\text{Sqrt}[a + cx^2] / x^n), x], x] /;$   $\text{FreeQ}[\{a, c, d, e\}, x] \ \&\& \ \text{EqQ}[c d^2 + a e^2, 0] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{ILtQ}[n, 0]$
667.  $\text{Int}[\left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})} \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})} / \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right), x_{\text{Symbol}}] \rightarrow \text{Int}[(a/d + c(x/e)) (f + gx)^n (a + cx^2)^{(p-1)}, x] /;$   $\text{FreeQ}[\{a, c, d, e, f, g, n, p\}, x] \ \&\& \ \text{EqQ}[c d^2 + a e^2, 0] \ \&\& \ \text{GtQ}[p, 0]$
668.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[g(d + ex)^m ((a + cx^2)^{(p+1}) / (c(m+2p+2)))], x] /;$   $\text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \ \&\& \ \text{EqQ}[c d^2 + a e^2, 0] \ \&\& \ \text{EqQ}[c e f (m+2p+2) + c d g m, 0]$
669.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d g + e f) (d + ex)^m ((a + cx^2)^{(p+1}) / (2 c d (p+1))), x] - \text{Simp}[e ((m(d g + e f) + 2 e f (p+1)) / (2 c d (p+1))) \text{Int}[(d + ex)^{(m-1)} (a + cx^2)^{(p+1)}, x], x] /;$   $\text{FreeQ}[\{a, c, d, e, f, g\}, x] \ \&\& \ \text{EqQ}[c d^2 + a e^2, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[m, 0]$

670.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^2) \cdot ((a + (c \cdot x)^2)^{p+1})^{p+1}), x\_Symbol] := \text{Simp}[(d \cdot g + e \cdot f) \cdot (d + e \cdot x)^m \cdot (a + c \cdot x^2)^{p+1} / (2 \cdot c \cdot d \cdot (p+1))], x] - \text{Simp}[e \cdot ((m \cdot (d \cdot g + e \cdot f) + 2 \cdot e \cdot f \cdot (p+1)) / (2 \cdot c \cdot d \cdot (p+1))) \text{Int}[(d + e \cdot x)^{\text{Simplify}[m-1]} \cdot (a + c \cdot x^2)^{\text{Simplify}[p+1]}, x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \&\& \text{SumSimplerQ}[p, 1] \&\& \text{SumSimplerQ}[m, -1] \&\& \text{NeQ}[p, -1] \&\& !\text{IGtQ}[m, 0]$
671.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^2) \cdot ((a + (c \cdot x)^2)^{p+1})^{p+1}), x\_Symbol] := \text{Simp}[(d \cdot g - e \cdot f) \cdot (d + e \cdot x)^m \cdot (a + c \cdot x^2)^{p+1} / (2 \cdot c \cdot d \cdot (m+p+1))], x] + \text{Simp}[(m \cdot (g \cdot c \cdot d + c \cdot e \cdot f) + 2 \cdot e \cdot c \cdot f \cdot (p+1)) / (e \cdot (2 \cdot c \cdot d) \cdot (m+p+1)) \text{Int}[(d + e \cdot x)^{m+1} \cdot (a + c \cdot x^2)^p, x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \&\& ((\text{LtQ}[m, -1] \&\& !\text{IGtQ}[m+p+1, 0]) || (\text{LtQ}[m, 0] \&\& \text{LtQ}[p, -1]) || \text{EqQ}[m+2 \cdot p+2, 0]) \&\& \text{NeQ}[m+p+1, 0]$
672.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^2) \cdot ((a + (c \cdot x)^2)^{p+1})^{p+1}), x\_Symbol] := \text{Simp}[g \cdot (d + e \cdot x)^m \cdot (a + c \cdot x^2)^{p+1} / (c \cdot (m+2 \cdot p+2))], x] + \text{Simp}[(m \cdot (d \cdot g + e \cdot f) + 2 \cdot e \cdot f \cdot (p+1)) / (e \cdot (m+2 \cdot p+2)) \text{Int}[(d + e \cdot x)^m \cdot (a + c \cdot x^2)^p, x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \&\& \text{NeQ}[m+2 \cdot p+2, 0]$
673.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^2) \cdot ((a + (c \cdot x)^2)^{p+1})^{p+1}), x\_Symbol] := \text{Simp}[(e \cdot f + d \cdot g) \cdot (2 \cdot p+3) + 2 \cdot e \cdot g \cdot (p+1) \cdot x \cdot (a + c \cdot x^2)^{p+1} / (2 \cdot c \cdot (p+1) \cdot (2 \cdot p+3))], x] /; \text{FreeQ}[\{a, c, d, e, f, g, p\}, x] \&\& \text{EqQ}[a \cdot e \cdot g - c \cdot d \cdot f \cdot (2 \cdot p+3), 0] \&\& \text{NeQ}[p, -1]$
674.  $\text{Int}[(x + (d + (e \cdot x)^m) \cdot ((a + (c \cdot x)^2)^{p+1}))^{p+1}], x\_Symbol] := \text{Simp}[(d + e \cdot x) \cdot (a + c \cdot x^2)^{p+1} / (2 \cdot c \cdot (p+1))], x] - \text{Simp}[e / (2 \cdot c \cdot (p+1)) \text{Int}[(a + c \cdot x^2)^{p+1}], x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{LtQ}[p, -1] \&\& !(\text{IntegerQ}[p] \&\& \text{NiceSqrtQ}[(-a) \cdot c])$
675.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^2) \cdot ((a + (c \cdot x)^2)^{p+1})^{p+1}), x\_Symbol] := \text{Simp}[a \cdot (e \cdot f + d \cdot g) \cdot (a + c \cdot x^2)^{p+1} / (2 \cdot a \cdot c \cdot (p+1))], x] + (-\text{Simp}[(c \cdot d \cdot f - a \cdot e \cdot g) \cdot x \cdot (a + c \cdot x^2)^{p+1} / (2 \cdot a \cdot c \cdot (p+1))], x] - \text{Simp}[(a \cdot e \cdot g - c \cdot d \cdot f \cdot (2 \cdot p+3)) / (2 \cdot a \cdot c \cdot (p+1)) \text{Int}[(a + c \cdot x^2)$



```
)^(p + 1), x], x]) /; FreeQ[{a, c, d, e, f, g}, x] && LtQ[p, -1] && !
(IntegerQ[p] && NiceSqrtQ[(-a)*c])
```

```
676. Int[((d_.) + (e_.)*(x_))*((f_.) + (g_.)*(x_))*((a_) + (c_.)*(x_)^2)^(p
_), x_Symbol] := Simp[(e*f + d*g)*((a + c*x^2)^(p + 1)/(2*c*(p + 1))),
x] + (Simp[e*g*x*((a + c*x^2)^(p + 1)/(c*(2*p + 3))), x] - Simp[(a*e*
g - c*d*f*(2*p + 3))/(c*(2*p + 3)) Int[(a + c*x^2)^p, x], x]) /; Fre
eQ[{a, c, d, e, f, g, p}, x] && !LeQ[p, -1]
```

```
677. Int[((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))*((a_) + (c_.)*(x_)^
2)^(p_), x_Symbol] := Simp[(-(e*f - d*g))*(d + e*x)^(m + 1)*((a + c*x
^2)^(p + 1)/(2*(p + 1)*(c*d^2 + a*e^2))), x] /; FreeQ[{a, c, d, e, f,
g, m, p}, x] && EqQ[Simplify[m + 2*p + 3], 0] && EqQ[c*d*f + a*e*g, 0]
```

```
678. Int[((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))*((a_) + (c_.)*(x_)^
2)^(p_), x_Symbol] := Simp[(d + e*x)^m*(a + c*x^2)^(p + 1)*((a*g - c*f
*x)/(2*a*c*(p + 1))), x] - Simp[m*((c*d*f + a*e*g)/(2*a*c*(p + 1)))
Int[(d + e*x)^(m - 1)*(a + c*x^2)^(p + 1), x], x] /; FreeQ[{a, c, d, e
, f, g}, x] && EqQ[Simplify[m + 2*p + 3], 0] && LtQ[p, -1]
```

```
679. Int[((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))*((a_) + (c_.)*(x_)^
2)^(p_), x_Symbol] := Simp[(-(e*f - d*g))*(d + e*x)^(m + 1)*((a + c*x
^2)^(p + 1)/(2*(p + 1)*(c*d^2 + a*e^2))), x] + Simp[(c*d*f + a*e*g)/(c
*d^2 + a*e^2) Int[(d + e*x)^(m + 1)*(a + c*x^2)^p, x], x] /; FreeQ[{
a, c, d, e, f, g, m, p}, x] && EqQ[Simplify[m + 2*p + 3], 0]
```

```
680. Int[((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))*((a_) + (c_.)*(x_)^
2)^(p_), x_Symbol] := Simp[(-(d + e*x)^(m + 1))*((a + c*x^2)^p/(e^2*(
m + 1)*(m + 2)*(c*d^2 + a*e^2)))*((d*g - e*f*(m + 2))*(c*d^2 + a*e^2)
- 2*c*d^2*p*(e*f - d*g) - e*(g*(m + 1)*(c*d^2 + a*e^2) + 2*c*d*p*(e*f
- d*g))*x), x] - Simp[p/(e^2*(m + 1)*(m + 2)*(c*d^2 + a*e^2)) Int[(d
+ e*x)^(m + 2)*(a + c*x^2)^(p - 1)*Simp[2*a*c*e*(e*f - d*g)*(m + 2) -
c*(2*c*d*(d*g*(2*p + 1) - e*f*(m + 2*p + 2)) - 2*a*e^2*g*(m + 1))*x,
x], x], x] /; FreeQ[{a, c, d, e, f, g}, x] && GtQ[p, 0] && LtQ[m, -2]
&& LtQ[m + 2*p, 0] && !ILtQ[m + 2*p + 3, 0]
```

681.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e*x)^{(m+1)} * (e*f*(m+2*p+2) - d*g*(2*p+1) + e*g*(m+1)*x) * ((a + c*x^2)^p / (e^2*(m+1)*(m+2*p+2))], x] + \text{Simp}[p / (e^2*(m+1)*(m+2*p+2)) \text{Int}[(d + e*x)^{(m+1)} * (a + c*x^2)^{(p-1)} * \text{Simp}[g*(2*a*e + 2*a*e*m) + (g*(2*c*d + 4*c*d*p) - 2*c*e*f*(m+2*p+2))*x, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m\}, x] \&\& \text{GtQ}[p, 0] \&\& (\text{LtQ}[m, -1] \parallel \text{EqQ}[p, 1] \parallel (\text{IntegerQ}[p] \&\& !\text{RationalQ}[m])) \&\& \text{NeQ}[m, -1] \&\& !\text{ILtQ}[m + 2*p + 1, 0] \&\& (\text{IntegerQ}[m] \parallel \text{IntegerQ}[p] \parallel \text{IntegersQ}[2*m, 2*p])$
682.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e*x)^{(m+1)} * (c*e*f*(m+2*p+2) - g*c*d*(2*p+1) + g*c*e*(m+2*p+1)*x) * ((a + c*x^2)^p / (c*e^2*(m+2*p+1)*(m+2*p+2))), x] + \text{Simp}[2*(p / (c*e^2*(m+2*p+1)*(m+2*p+2))) \text{Int}[(d + e*x)^m * (a + c*x^2)^{(p-1)} * \text{Simp}[f*a*c*e^2*(m+2*p+2) + a*c*d*e*g*m - (c^2*f*d*e*(m+2*p+2) - g*(c^2*d^2*(2*p+1) + a*c*e^2*(m+2*p+1)))*x, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m\}, x] \&\& \text{GtQ}[p, 0] \&\& (\text{IntegerQ}[p] \parallel !\text{RationalQ}[m] \parallel (\text{GeQ}[m, -1] \&\& \text{LtQ}[m, 0])) \&\& !\text{ILtQ}[m + 2*p, 0] \&\& (\text{IntegerQ}[m] \parallel \text{IntegerQ}[p] \parallel \text{IntegersQ}[2*m, 2*p])$
683.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Int}[(a + c*x^2)^p * \text{ExpandIntegrand}[(d + e*x)^m * (f + g*x), x], x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \&\& \text{ILtQ}[p, -1] \&\& \text{IGtQ}[m, 0] \&\& \text{RationalQ}[a, c, d, e, f, g]$
684.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e*x)^{(m-1)} * (a + c*x^2)^{(p+1)} * ((a*(e*f + d*g) - (c*d*f - a*e*g)*x) / (2*a*c*(p+1))), x] - \text{Simp}[1 / (2*a*c*(p+1)) \text{Int}[(d + e*x)^{(m-2)} * (a + c*x^2)^{(p+1)} * \text{Simp}[a*e*(e*f*(m-1) + d*g*m) - c*d^2*f*(2*p+3) + e*(a*e*g*m - c*d*f*(m+2*p+2))*x, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 1] \&\& (\text{EqQ}[d, 0] \parallel (\text{EqQ}[m, 2] \&\& \text{EqQ}[p, -3] \&\& \text{RationalQ}[a, c, d, e, f, g]) \parallel !\text{ILtQ}[m + 2*p + 3, 0])$
685.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e*x)^m * (a + c*x^2)^{(p+1)} * ((a*g - c*f$

- $$\frac{x}{(2ac(p+1))}, x] - \text{Simp}[1/(2ac(p+1)) \text{ Int}[(d+ex)^{(m-1)}(a+cx^2)^{(p+1)}\text{Simp}[aegm - cdf(2p+3) - cef(m+2p+3)x, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 0] \&\& (\text{IntegerQ}[m] \parallel \text{IntegerQ}[p] \parallel \text{IntegersQ}[2m, 2p])$$
686. 
$$\text{Int}[(d_.) + (e_.)x_)]^{(m_)}((f_.) + (g_.)x_)]^{(a_.) + (c_.)x_)]^{2(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(-d+ex)^{(m+1)}(f*ac*e - a*g*c*d + c*(c*d*f + a*e*g)*x)^{(a+cx^2)^{(p+1)}/(2ac(p+1)(c*d^2 + a*e^2))}, x] + \text{Simp}[1/(2ac(p+1)(c*d^2 + a*e^2)) \text{ Int}[(d+ex)^m(a+cx^2)^{(p+1)}\text{Simp}[f*(c^2*d^2*(2p+3) + a*c*e^2*(m+2p+3)) - a*c*d*e*g*m + c*e*(c*d*f + a*e*g)*(m+2p+4)*x, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \&\& \text{LtQ}[p, -1] \&\& (\text{IntegerQ}[m] \parallel \text{IntegerQ}[p] \parallel \text{IntegersQ}[2m, 2p])$$
687. 
$$\text{Int}[(d_.) + (e_.)x_)]^{(m_)}((f_.) + (g_.)x_)]^{(a_.) + (c_.)x_)]^{2(p_.)}, x\_Symbol] \rightarrow \text{Simp}[g*(d+ex)^m((a+cx^2)^{(p+1)}/(c*(m+2p+2))), x] + \text{Simp}[1/(c*(m+2p+2)) \text{ Int}[(d+ex)^{(m-1)}(a+cx^2)^p\text{Simp}[c*d*f*(m+2p+2) - a*e*g*m + c*(e*f*(m+2p+2) + d*g*m)*x, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, p\}, x] \&\& \text{GtQ}[m, 0] \&\& \text{NeQ}[m+2p+2, 0] \&\& (\text{IntegerQ}[m] \parallel \text{IntegerQ}[p] \parallel \text{IntegersQ}[2m, 2p]) \&\& !( \text{IGtQ}[m, 0] \&\& \text{EqQ}[f, 0])$$
688. 
$$\text{Int}[(d_.) + (e_.)x_)]^{(m_)}((f_.) + (g_.)x_)]^{(a_.) + (c_.)x_)]^{2(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(e*f - d*g)*(d+ex)^{(m+1)}((a+cx^2)^{(p+1)}/((m+1)(c*d^2 + a*e^2))), x] + \text{Simp}[1/((m+1)(c*d^2 + a*e^2)) \text{ Int}[(d+ex)^{(m+1)}(a+cx^2)^p\text{Simp}[(c*d*f + a*e*g)*(m+1) - c*(e*f - d*g)*(m+2p+3)*x, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, p\}, x] \&\& \text{LtQ}[m, -1] \&\& (\text{IntegerQ}[m] \parallel \text{IntegerQ}[p] \parallel \text{IntegersQ}[2m, 2p])$$
689. 
$$\text{Int}[(d_.) + (e_.)x_)]^{(m_)}((f_.) + (g_.)x_)]^{(a_.) + (c_.)x_)]^{2(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(e*f - d*g)*(d+ex)^{(m+1)}((a+cx^2)^{(p+1)}/((m+1)(c*d^2 + a*e^2))), x] + \text{Simp}[1/((m+1)(c*d^2 + a*e^2)) \text{ Int}[(d+ex)^{(m+1)}(a+cx^2)^p\text{Simp}[(c*d*f + a*e*g)*(m+1) - c*(e*f - d*g)*(m+2p+3)*x, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& \text{ILtQ}[\text{Simplify}[m+2p+3], 0] \&\& \text{NeQ}[m, -1]$$

690. `Int[((f_) + (g_)*(x_))/(Sqrt[(e_)*(x_)]*Sqrt[(a_) + (c_)*(x_)^2]), x_Symbol] := Simp[Sqrt[x]/Sqrt[e*x] Int[(f + g*x)/(Sqrt[x]*Sqrt[a + c*x^2]), x], x] /; FreeQ[{a, c, e, f, g}, x]`
691. `Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))^(n_)*((a_) + (c_)*(x_)^2)^(p_), x_Symbol] := With[{Q = PolynomialQuotient[(f + g*x)^n, a*e + c*d*x, x], R = PolynomialRemainder[(f + g*x)^n, a*e + c*d*x, x]}, Simp[(-d)*R*(d + e*x)^m*((a + c*x^2)^(p + 1)/(2*a*e*(p + 1))), x] + Simp[d/(2*a*(p + 1)) Int[(d + e*x)^(m - 1)*(a + c*x^2)^(p + 1)*ExpandToSum[2*a*e*(p + 1)*Q + R*(m + 2*p + 2), x], x], x] /; FreeQ[{a, c, d, e, f, g}, x] && IGtQ[n, 1] && IGtQ[m, 0] && LtQ[p, -1] && EqQ[c*d^2 + a*e^2, 0]`
692. `Int[(((f_) + (g_)*(x_))^(n_)*((a_) + (c_)*(x_)^2)^(p_))/((d_) + (e_)*(x_)), x_Symbol] := Simp[d*(f + g*x)^n*((a + c*x^2)^(p + 1)/(2*a*e*p*(d + e*x))), x] - Simp[n*((e*f + d*g)/(2*d*e*p)) Int[(f + g*x)^(n - 1)*(a + c*x^2)^p, x], x] /; FreeQ[{a, c, d, e, f, g}, x] && EqQ[c*d^2 + a*e^2, 0] && IGtQ[n, 1] && LtQ[p, -1] && EqQ[n + 2*p + 1, 0]`
693. `Int[(((f_) + (g_)*(x_))^(n_)*((a_) + (c_)*(x_)^2)^(p_))/((d_) + (e_)*(x_)), x_Symbol] := Simp[(-(e*f - d*g))*(f + g*x)^(n - 1)*((a + c*x^2)^(p + 1)/(2*c*d*p*(d + e*x))), x] + Simp[1/(2*d*e^2*p) Int[(f + g*x)^(n - 2)*(a + c*x^2)^p*Simp[(e*f - d*g)*(e*f + d*g - d*g*n) + 2*e^2*f^2*p + e*g*((e*f - d*g)*n + 2*e*f*p)*x, x], x], x] /; FreeQ[{a, c, d, e, f, g}, x] && IGtQ[n, 1] && LtQ[p, -1] && EqQ[c*d^2 + a*e^2, 0]`
694. `Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))^(n_)*((a_) + (c_)*(x_)^2)^(p_), x_Symbol] := Simp[(-(e*f - d*g)^n)*(d + e*x)^m*((a + c*x^2)^(p + 1)/(2*c*d*e^(n - 1)*(m + p + 1))), x] + Simp[1/(2*d*e^n*(m + p + 1)) Int[(d + e*x)^(m + 1)*(a + c*x^2)^p*ExpandToSum[(2*d*e^n*(m + p + 1)*(f + g*x)^n - (e*f - d*g)^n*(d*m - e*(m + 2*p + 2)*x)]/(d + e*x), x], x] /; FreeQ[{a, c, d, e, f, g}, x] && IGtQ[n, 1] && ILtQ[m, -1] && LtQ[p, -1] && EqQ[c*d^2 + a*e^2, 0]`
695. `Int[(((f_) + (g_)*(x_))^(n_)*((a_) + (c_)*(x_)^2)^(p_))/((d_) + (e_)*(x_)), x_Symbol] := Simp[d*(f + g*x)^(n + 1)*((a + c*x^2)^(p + 1)/(2*a*p*(e*f - d*g)*(d + e*x))), x] + Simp[1/(p*(2*c*d)*(e*f - d*g)) I`

- $$\text{nt}[(f + g*x)^n*(a + c*x^2)^p*(c*e*f*(2*p + 1) - c*d*g*(n + 2*p + 1) + c*e*g*(n + 2*p + 2)*x), x], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{ILtQ}[n + 2*p, 0] \&\& \text{!IGtQ}[n, 0]$$
696.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^n) \cdot ((a + (c \cdot x^2)^p)^{p+1}) / (c \cdot (m - n - 1))), x] /; \text{FreeQ}\{a, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[m + p, 0] \&\& \text{EqQ}[e*f + d*g, 0] \&\& \text{NeQ}[m - n - 1, 0]$
697.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^n) \cdot ((a + (c \cdot x^2)^p)^{p+1}) / (c \cdot (n + 1) \cdot (e*f + d*g))), x] /; \text{FreeQ}\{a, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[m + p, 0] \&\& \text{EqQ}[m - n - 2, 0]$
698.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^n) \cdot ((a + (c \cdot x^2)^p)^{p/(g \cdot (n + 1))}), x] + \text{Simp}[c \cdot (m / (e \cdot g \cdot (n + 1))) \text{Int}[(d + e \cdot x)^{m+1} \cdot (f + g \cdot x)^{n+1} \cdot (a + c \cdot x^2)^{p-1}], x], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[m + p, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[n, -1] \&\& \text{!(IntegerQ}[n + p] \&\& \text{LeQ}[n + p + 2, 0])$
699.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^n) \cdot ((a + (c \cdot x^2)^p)^{p/(g \cdot (m - n - 1))}), x] - \text{Simp}[c \cdot m \cdot ((e \cdot f + d \cdot g) / (e^2 \cdot g \cdot (m - n - 1))) \text{Int}[(d + e \cdot x)^{m+1} \cdot (f + g \cdot x)^n \cdot (a + c \cdot x^2)^{p-1}], x], x] /; \text{FreeQ}\{a, c, d, e, f, g, n\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[m + p, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[m - n - 1, 0] \&\& \text{!IGtQ}[n, 0] \&\& \text{!(IntegerQ}[n + p] \&\& \text{LtQ}[n + p + 2, 0]) \&\& \text{RationalQ}[n]$
700.  $\text{Int}[(d + (e \cdot x)^m) \cdot ((f + (g \cdot x)^n) \cdot ((a + (c \cdot x^2)^p)^{p+1}) / (c \cdot (p + 1))), x] - \text{Simp}[e \cdot g \cdot (n / (c \cdot (p + 1))) \text{Int}[(d + e \cdot x)^{m-1} \cdot (f + g \cdot x)^{n-1} \cdot (a + c \cdot x^2)^{p+1}], x], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[m + p, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[n, 0]$

701.  $\text{Int}[\left((d_{\_}) + (e_{\_}) \cdot (x_{\_})\right)^{(m_{\_})} \cdot \left((f_{\_}) + (g_{\_}) \cdot (x_{\_})\right)^{(n_{\_})} \cdot \left((a_{\_}) + (c_{\_}) \cdot (x_{\_})^2\right)^{(p_{\_})}, x\_Symbol] \rightarrow \text{Simp}[e^2 \cdot (d + e \cdot x)^{(m-1)} \cdot (f + g \cdot x)^{(n+1)} \cdot \left((a + c \cdot x^2)^{(p+1)} / (c \cdot (p+1) \cdot (e \cdot f + d \cdot g))\right), x] + \text{Simp}[e^2 \cdot g \cdot (m - n - 2) / (c \cdot (p+1) \cdot (e \cdot f + d \cdot g))] \text{Int}[(d + e \cdot x)^{(m-1)} \cdot (f + g \cdot x)^n \cdot (a + c \cdot x^2)^{(p+1)}, x], x] /;$   $\text{FreeQ}\{a, c, d, e, f, g, n\}, x\} \ \&\& \ \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \ \&\& \ \text{EqQ}[m + p, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{RationalQ}[n]$
702.  $\text{Int}[\left((d_{\_}) + (e_{\_}) \cdot (x_{\_})\right)^{(m_{\_})} \cdot \left((f_{\_}) + (g_{\_}) \cdot (x_{\_})\right)^{(n_{\_})} \cdot \left((a_{\_}) + (c_{\_}) \cdot (x_{\_})^2\right)^{(p_{\_})}, x\_Symbol] \rightarrow \text{Simp}[(-e) \cdot (d + e \cdot x)^{(m-1)} \cdot (f + g \cdot x)^n \cdot \left((a + c \cdot x^2)^{(p+1)} / (c \cdot (m - n - 1))\right), x] - \text{Simp}[n \cdot (e \cdot f + d \cdot g) / (e \cdot (m - n - 1))] \text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^{(n-1)} \cdot (a + c \cdot x^2)^p, x], x] /;$   $\text{FreeQ}\{a, c, d, e, f, g, m, p\}, x\} \ \&\& \ \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \ \&\& \ \text{EqQ}[m + p, 0] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{NeQ}[m - n - 1, 0] \ \&\& \ (\text{IntegerQ}[2 \cdot p] \ || \ \text{IntegerQ}[n])$
703.  $\text{Int}[\left((d_{\_}) + (e_{\_}) \cdot (x_{\_})\right)^{(m_{\_})} \cdot \left((f_{\_}) + (g_{\_}) \cdot (x_{\_})\right)^{(n_{\_})} \cdot \left((a_{\_}) + (c_{\_}) \cdot (x_{\_})^2\right)^{(p_{\_})}, x\_Symbol] \rightarrow \text{Simp}[(-e^2) \cdot (d + e \cdot x)^{(m-1)} \cdot (f + g \cdot x)^{(n+1)} \cdot \left((a + c \cdot x^2)^{(p+1)} / ((n+1) \cdot (c \cdot e \cdot f + c \cdot d \cdot g))\right), x] - \text{Simp}[e \cdot (m - n - 2) / ((n+1) \cdot (e \cdot f + d \cdot g))] \text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^{(n+1)} \cdot (a + c \cdot x^2)^p, x], x] /;$   $\text{FreeQ}\{a, c, d, e, f, g, m, p\}, x\} \ \&\& \ \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \ \&\& \ \text{EqQ}[m + p, 0] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{IntegerQ}[2 \cdot p]$
704.  $\text{Int}[\text{Sqrt}[(d_{\_}) + (e_{\_}) \cdot (x_{\_})] / \left(\left((f_{\_}) + (g_{\_}) \cdot (x_{\_})\right) \cdot \text{Sqrt}[(a_{\_}) + (c_{\_}) \cdot (x_{\_})^2]\right), x\_Symbol] \rightarrow \text{Simp}[2 \cdot e^2 \ \text{Subst}[\text{Int}[1 / (c \cdot (e \cdot f + d \cdot g) + e^2 \cdot g \cdot x^2), x], x, \text{Sqrt}[a + c \cdot x^2] / \text{Sqrt}[d + e \cdot x]], x] /;$   $\text{FreeQ}\{a, c, d, e, f, g\}, x\} \ \&\& \ \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0]$
705.  $\text{Int}[\left((d_{\_}) + (e_{\_}) \cdot (x_{\_})\right)^{(m_{\_})} \cdot \left((f_{\_}) + (g_{\_}) \cdot (x_{\_})\right)^{(n_{\_})} \cdot \left((a_{\_}) + (c_{\_}) \cdot (x_{\_})^2\right)^{(p_{\_})}, x\_Symbol] \rightarrow \text{Simp}[e^2 \cdot (d + e \cdot x)^{(m-2)} \cdot (f + g \cdot x)^{(n+1)} \cdot \left((a + c \cdot x^2)^{(p+1)} / (c \cdot g \cdot (n + p + 2))\right), x] /;$   $\text{FreeQ}\{a, c, d, e, f, g, m, n, p\}, x\} \ \&\& \ \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \ \&\& \ \text{EqQ}[m + p - 1, 0] \ \&\& \ \text{EqQ}[e \cdot f \cdot (p + 1) - d \cdot g \cdot (2 \cdot n + p + 3), 0] \ \&\& \ \text{NeQ}[n + p + 2, 0]$
706.  $\text{Int}[\left((d_{\_}) + (e_{\_}) \cdot (x_{\_})\right)^{(m_{\_})} \cdot \left((f_{\_}) + (g_{\_}) \cdot (x_{\_})\right)^{(n_{\_})} \cdot \left((a_{\_}) + (c_{\_}) \cdot (x_{\_})^2\right)^{(p_{\_})}, x\_Symbol] \rightarrow \text{Simp}[e^2 \cdot (e \cdot f - d \cdot g) \cdot (d + e \cdot x)^{(m-2)} \cdot (f + g \cdot x)^{(n+1)} \cdot \left((a + c \cdot x^2)^{(p+1)} / (c \cdot g \cdot (n + 1) \cdot (e \cdot f + d \cdot g))\right), x] - \text{Sim}$

- $$p[e*((e*f*(p + 1) - d*g*(2*n + p + 3))/(g*(n + 1)*(e*f + d*g))] \text{ Int}[(d + e*x)^{(m - 1)}*(f + g*x)^{(n + 1)}*(a + c*x^2)^p, x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[m + p - 1, 0] \&\& \text{LtQ}[n, -1] \&\& \text{IntegerQ}[2*p]$$
707. 
$$\text{Int}[(d + e*x)^{(m - 1)}*(f + g*x)^{(n + 1)}*(a + c*x^2)^p, x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[m + p - 1, 0] \&\& \text{LtQ}[n, -1] \&\& \text{IntegerQ}[2*p]$$
708. 
$$\text{Int}[(d + e*x)^{(m - 1)}*(f + g*x)^{(n + 1)}*(a + c*x^2)^p, x] /; \text{FreeQ}[\{a, c, d, e, f, g, n, p\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{IntegerQ}[p - 1/2] \&\& \text{ILtQ}[m, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{IGtQ}[n, 0]$$
709. 
$$\text{Int}[(d + e*x)^{(m - 1)}*(f + g*x)^{(n + 1)}*(a + c*x^2)^p, x] /; \text{FreeQ}[\{a, c, d, e, f, g, n, p\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{ILtQ}[m, 0] \&\& (\text{ILtQ}[n, 0] \mid \mid (\text{IGtQ}[n, 0] \&\& \text{ILtQ}[p + 1/2, 0])) \&\& \text{IGtQ}[n, 0]$$
710. 
$$\text{Int}[(d + e*x)^{(m - 1)}*(f + g*x)^{(n + 1)}*(a + c*x^2)^p, x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[m + n + 2*p + 1, 0] \&\& \text{ILtQ}[m, 0] \&\& \text{ILtQ}[n, 0]$$
711. 
$$\text{Int}[(d + e*x)^{(m - 1)}*(f + g*x)^{(n + 1)}*(a + c*x^2)^p, x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{NeQ}[m + n + 2*p + 1, 0]$$

712.  $\text{Int}[(d + e x)^m (f + g x)^n (a + c x^2)^p, x\_Symbol] := \text{With}[\{Q = \text{PolynomialQuotient}[(f + g x)^n, a + c x^2, x], R = \text{Coeff}[\text{PolynomialRemainder}[(f + g x)^n, a + c x^2, x], x, 0], S = \text{Coeff}[\text{PolynomialRemainder}[(f + g x)^n, a + c x^2, x], x, 1]\}, \text{Simp}[(d + e x)^m (a + c x^2)^{p+1} ((a S - c R x) / (2 a c (p + 1))), x] + \text{Simp}[1 / (2 a c (p + 1)) \text{Int}[(d + e x)^{m-1} (a + c x^2)^{p+1} \text{ExpandToSum}[2 a c (p + 1) (d + e x) Q - a e S^m + c d R (2 p + 3) + c e R (m + 2 p + 3) x, x], x]] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 0] \&\& \text{NeQ}[c d^2 + a e^2, 0]$
713.  $\text{Int}[(d + e x)^m (f + g x)^n (a + c x^2)^p, x\_Symbol] := \text{With}[\{Q = \text{PolynomialQuotient}[(d + e x)^m (f + g x)^n, a + c x^2, x], R = \text{Coeff}[\text{PolynomialRemainder}[(d + e x)^m (f + g x)^n, a + c x^2, x], x, 0], S = \text{Coeff}[\text{PolynomialRemainder}[(d + e x)^m (f + g x)^n, a + c x^2, x], x, 1]\}, \text{Simp}[(a S - c R x) ((a + c x^2)^{p+1} / (2 a c (p + 1))), x] + \text{Simp}[1 / (2 a c (p + 1)) \text{Int}[(d + e x)^m (a + c x^2)^{p+1} \text{ExpandToSum}[(2 a c (p + 1) Q) / (d + e x)^m + (c R (2 p + 3)) / (d + e x)^m, x], x]] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{LtQ}[p, -1] \&\& \text{ILtQ}[m, 0] \&\& \text{NeQ}[c d^2 + a e^2, 0]$
714.  $\text{Int}[(d + e x)^m (f + g x)^n (a + c x^2)^p, x\_Symbol] := \text{With}[\{Q = \text{PolynomialQuotient}[(f + g x)^n, a + c x^2, x], R = \text{Coeff}[\text{PolynomialRemainder}[(f + g x)^n, a + c x^2, x], x, 0], S = \text{Coeff}[\text{PolynomialRemainder}[(f + g x)^n, a + c x^2, x], x, 1]\}, \text{Simp}[(d + e x)^{m+1} (a + c x^2)^{p+1} ((a (e R - d S) + (c d R + a e S) x) / (2 a (p + 1) (c d^2 + a e^2))), x] + \text{Simp}[1 / (2 a (p + 1) (c d^2 + a e^2)) \text{Int}[(d + e x)^m (a + c x^2)^{p+1} \text{ExpandToSum}[2 a (p + 1) (c d^2 + a e^2) Q + c d^2 R (2 p + 3) - a e (d S^m - e R (m + 2 p + 3)) + e (c d R + a e S) (m + 2 p + 4) x, x], x]] /; \text{FreeQ}[\{a, c, d, e, f, g, m\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[c d^2 + a e^2, 0]$
715.  $\text{Int}[(d + e x)^m (f + g x)^n (a + c x^2)^p, x\_Symbol] := \text{With}[\{Q = \text{PolynomialQuotient}[(f + g x)^n, d + e x, x], R = \text{PolynomialRemainder}[(f + g x)^n, d + e x, x]\}, \text{Simp}[(e R (d + e x)^{m+1} (a + c x^2)^{p+1} / ((m + 1) (c d^2 + a e^2))), x]$



- $$] + \text{Simp}[1/((m + 1)*(c*d^2 + a*e^2)) \text{ Int}[(d + e*x)^{(m + 1)}*(a + c*x^2)^p*\text{ExpandToSum}[(m + 1)*(c*d^2 + a*e^2)*Q + c*d*R*(m + 1) - c*e*R*(m + 2*p + 3)*x, x], x]] /; \text{FreeQ}[\{a, c, d, e, f, g, p\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{ILtQ}[m, -1] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& (\text{NeQ}[m + n, 0] \mid\mid \text{EqQ}[p, -2^{(-1)}])$$
716. 
$$\text{Int}[(d + e*x)^{(m + n - 1)}*(a + c*x^2)^{(p + 1)}/(c*e^{(n - 1)}*(m + n + 2*p + 1)), x] + \text{Simp}[1/(c*e^n*(m + n + 2*p + 1)) \text{ Int}[(d + e*x)^m*(a + c*x^2)^p*\text{ExpandToSum}[c*e^n*(m + n + 2*p + 1)*(f + g*x)^n - c*g^n*(m + n + 2*p + 1)*(d + e*x)^n - g^n*(d + e*x)^{(n - 2)}*(a*e^2*(m + n - 1) - c*d^2*(m + n + 2*p + 1) - 2*c*d*e*(m + n + p)*x), x], x]] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{IntegerQ}[m] \&\& \text{NeQ}[m + n + 2*p + 1, 0]$$
717. 
$$\text{Int}[(d + e*x)^{(m + p)}*(f + g*x)^n*(a/d + (c/e)*x)^p, x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, n\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0] \&\& \text{GtQ}[a, 0] \&\& \text{GtQ}[d, 0]$$
718. 
$$\text{Simp}[(a + c*x^2)^{\text{FracPart}[p]}/((d + e*x)^{\text{FracPart}[p]}*(a/d + (c*x)/e)^{\text{FracPart}[p]}) \text{ Int}[(d + e*x)^{(m + p)}*(f + g*x)^n*(a/d + (c/e)*x)^p, x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, n\}, x] \&\& \text{EqQ}[c*d^2 + a*e^2, 0]$$
719. 
$$\text{Simp}[g/e \text{ Int}[(d + e*x)^{(m + 1)}*(a + c*x^2)^p, x], x] + \text{Simp}[(e*f - d*g)/e \text{ Int}[(d + e*x)^m*(a + c*x^2)^p, x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& !\text{IGtQ}[m, 0]$$
720. 
$$\text{Simp}[(c*d^2 + a*e^2)/(e*(e*f - d*g)) \text{ Int}[(a + c*x^2)^{(p - 1)}/(d + e*x), x], x] - \text{Simp}[1/(e*(e*f - d*g)) \text{ Int}[\text{Simp}[c*d*f + a*e*g - c*(e*f - d*g)*x, x]*(a + c*x^2)^{(p - 1)}/(f + g*x), x], x] /; \text{FreeQ}[\{a, c, d, e, f, g\}, x] \&\& \text{FractionQ}[p] \&\& \text{GtQ}[p, 0]$$

721.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})] \text{Sqrt}[(a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2], x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e x)^{(m + 1)} \text{Sqrt}[f + g x] (\text{Sqrt}[a + c x^2] / (e(m + 1)))], x] - \text{Simp}[1 / (2 e (m + 1)) \text{Int}[\left((d + e x)^{(m + 1)} / (\text{Sqrt}[f + g x] \text{Sqrt}[a + c x^2])\right) \text{Simp}[a g + 2 c f x + 3 c g x^2, x], x], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[2 m] \&\& \text{LtQ}[m, -1]$
722.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})] \text{Sqrt}[(a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2], x_{\text{Symbol}}] \rightarrow \text{Simp}[2 (d + e x)^{(m + 1)} \text{Sqrt}[f + g x] (\text{Sqrt}[a + c x^2] / (e(2 m + 5)))], x] + \text{Simp}[1 / (e(2 m + 5)) \text{Int}[\left((d + e x)^m / (\text{Sqrt}[f + g x] \text{Sqrt}[a + c x^2])\right) \text{Simp}[3 a e f - a d g - 2 (c d f - a e g) x + (c e f - 3 c d g) x^2, x], x], x] /; \text{FreeQ}\{a, c, d, e, f, g, m\}, x] \&\& \text{IntegerQ}[2 m] \&\& \text{!LtQ}[m, -1]$
723.  $\text{Int}[\left(\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \text{Sqrt}[(a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2]\right) / \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[2 (d + e x)^m \text{Sqrt}[f + g x] (\text{Sqrt}[a + c x^2] / (g(2 m + 3)))], x] - \text{Simp}[1 / (g(2 m + 3)) \text{Int}[\left((d + e x)^{(m - 1)} / (\text{Sqrt}[f + g x] \text{Sqrt}[a + c x^2])\right) \text{Simp}[2 a (e f m - d g (m + 1)) + (2 c d f - 2 a e g) x - (2 c (d g m - e f (m + 1))) x^2, x], x], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[2 m] \&\& \text{GtQ}[m, 0]$
724.  $\text{Int}[\text{Sqrt}[(a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2] / \left(\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right) \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(c d^2 + a e^2) / e^2 \text{Int}[1 / \left((d + e x) \text{Sqrt}[f + g x] \text{Sqrt}[a + c x^2]\right)], x], x] - \text{Simp}[1 / e^2 \text{Int}[(c d - c e x) / \left(\text{Sqrt}[f + g x] \text{Sqrt}[a + c x^2]\right)], x], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x]$
725.  $\text{Int}[\left(\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \text{Sqrt}[(a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2]\right) / \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e x)^{(m + 1)} \text{Sqrt}[f + g x] (\text{Sqrt}[a + c x^2] / ((m + 1)(e f - d g)))], x] - \text{Simp}[1 / (2 (m + 1)(e f - d g)) \text{Int}[\left((d + e x)^{(m + 1)} / (\text{Sqrt}[f + g x] \text{Sqrt}[a + c x^2])\right) \text{Simp}[a g (2 m + 3) + 2 (c f) x + c g (2 m + 5) x^2, x], x], x] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[2 m] \&\& \text{LtQ}[m, -1]$
726.  $\text{Int}[\text{Sqrt}[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})] / \left(\text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})] \text{Sqrt}[(a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2]\right), x_{\text{Symbol}}] \rightarrow \text{With}\{q = \text{Rt}[-4 a c, 2]\}, \text{Simp}[\text{Sqrt}[2] \text{Sqrt}[2 c f - g q] \text{Sqrt}[-q + 2 c x] (d + e x) \text{Sqrt}[(e f - d g) ((q + 2 c x) / ((2 c f - g q) (d + e x)))] (\text{Sqrt}[(e f - d g) ((2 a + q x) / ((q f - 2 a$

```

g)(d + e*x)))]/(g*Sqrt[2*c*d - e*q]*Sqrt[2*a*(c/q) + c*x]*Sqrt[a + c
*x^2]))*EllipticPi[e*((2*c*f - g*q)/(g*(2*c*d - e*q))), ArcSin[Sqrt[2*
c*d - e*q]*(Sqrt[f + g*x]/(Sqrt[2*c*f - g*q]*Sqrt[d + e*x]))], (q*d -
2*a*e)*((2*c*f - g*q)/((q*f - 2*a*g)*(2*c*d - e*q))), x] /; FreeQ[{a
, c, d, e, f, g}, x]

```

```

727. Int[((d_.) + (e_.)*(x_))^(3/2)/(Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_) + (
c_.)*(x_)^2]), x_Symbol] := Simp[e/g Int[Sqrt[d + e*x]*(Sqrt[f + g*x
]/Sqrt[a + c*x^2]), x], x] - Simp[(e*f - d*g)/g Int[Sqrt[d + e*x]/(S
qrt[f + g*x]*Sqrt[a + c*x^2]), x], x] /; FreeQ[{a, c, d, e, f, g}, x]

```

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728. Int[((d_.) + (e_.)*(x_))^(m_)/(Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_) + (
c_.)*(x_)^2]), x_Symbol] := Simp[2*e^2*(d + e*x)^(m - 2)*Sqrt[f + g*x]*
(Sqrt[a + c*x^2]/(c*g*(2*m - 1))), x] - Simp[1/(c*g*(2*m - 1)) Int[(
(d + e*x)^(m - 3)/(Sqrt[f + g*x]*Sqrt[a + c*x^2]))*Simp[a*e^2*(d*g + 2
*e*f*(m - 2)) - c*d^3*g*(2*m - 1) + e*(e*(a*e*g*(2*m - 3)) + c*d*(2*e*
f - 3*d*g*(2*m - 1)))*x + 2*e^2*(c*e*f - 3*c*d*g)*(m - 1)*x^2, x], x],
x] /; FreeQ[{a, c, d, e, f, g}, x] && IntegerQ[2*m] && GeQ[m, 2]

```

```

729. Int[1/(Sqrt[(c_.) + (d_.)*(x_)]*((e_.) + (f_.)*(x_))*Sqrt[(a_) + (b_.)
*(x_)^2]), x_Symbol] := Simp[2 Subst[Int[1/((d*e - c*f + f*x^2)*Sqrt
[(b*c^2 + a*d^2)/d^2 - 2*b*c*(x^2/d^2) + b*(x^4/d^2)]), x], x, Sqrt[c
+ d*x]], x] /; FreeQ[{a, b, c, d, e, f}, x] && PosQ[b/a]

```

```

730. Int[1/(Sqrt[(c_.) + (d_.)*(x_)]*((e_.) + (f_.)*(x_))*Sqrt[(a_) + (b_.)
*(x_)^2]), x_Symbol] := With[{q = Rt[-b/a, 2]}, Simp[1/Sqrt[a] Int[1
/((e + f*x)*Sqrt[c + d*x]*Sqrt[1 - q*x]*Sqrt[1 + q*x]), x], x] /; Fre
eQ[{a, b, c, d, e, f}, x] && NegQ[b/a] && GtQ[a, 0]

```

```

731. Int[1/(Sqrt[(c_.) + (d_.)*(x_)]*((e_.) + (f_.)*(x_))*Sqrt[(a_) + (b_.)
(x_)^2]), x_Symbol] := With[{q = Rt[-b/a, 2]}, Simp[Sqrt[1 + b(x^2/a
)]]/Sqrt[a + b*x^2] Int[1/((e + f*x)*Sqrt[c + d*x]*Sqrt[1 - q*x]*Sqrt
[1 + q*x]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NegQ[b/a] && !
GtQ[a, 0]

```

```

732. Int[1/(Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(a_) + (
b_.)*(x_)^2]), x_Symbol] := Simp[-2*(c + d*x)*(Sqrt[(d*e - c*f)^2*((a

```

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+ b*x^2)/((b*e^2 + a*f^2)*(c + d*x)^2)]/((d*e - c*f)*Sqrt[a + b*x^2])
) Subst[Int[1/Sqrt[Simp[1 - (2*b*c*e + 2*a*d*f)*(x^2/(b*e^2 + a*f^2))
) + (b*c^2 + a*d^2)*(x^4/(b*e^2 + a*f^2)), x]], x], x, Sqrt[e + f*x]/S
qrt[c + d*x]], x] /; FreeQ[{a, b, c, d, e, f}, x]

```

```

733. Int[1/(Sqrt[(c_.) + (d_.)*(x_)]*((e_.) + (f_.)*(x_))^(3/2)*Sqrt[(a_) +
(b_.)*(x_)^2]), x_Symbol] := Simp[d/(d*e - c*f) Int[1/(Sqrt[c + d*x
]*Sqrt[e + f*x]*Sqrt[a + b*x^2]), x], x] - Simp[f/(d*e - c*f) Int[Sq
rt[c + d*x]/((e + f*x)^(3/2)*Sqrt[a + b*x^2]), x], x] /; FreeQ[{a, b,
c, d, e, f}, x]

```

```

734. Int[((d_.) + (e_.)*(x_))^(m_)/(Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_) + (c
.)*(x)^2]), x_Symbol] := Simp[e^2*(d + e*x)^(m + 1)*Sqrt[f + g*x]*(S
qrt[a + c*x^2]/((m + 1)*(e*f - d*g)*(c*d^2 + a*e^2))), x] + Simp[1/(2*
(m + 1)*(e*f - d*g)*(c*d^2 + a*e^2)) Int[((d + e*x)^(m + 1)/(Sqrt[f
+ g*x]*Sqrt[a + c*x^2]))*Simp[2*c*d*(e*f - d*g)*(m + 1) - a*e^2*g*(2*m
+ 3) + 2*c*e*(d*g*(m + 1) - e*f*(m + 2))*x - c*e^2*g*(2*m + 5)*x^2, x
], x], x] /; FreeQ[{a, c, d, e, f, g}, x] && IntegerQ[2*m] && LeQ[m, -
2]

```

```

735. Int[((d_.) + (e_.)*(x_))^(m_)*Sqrt[(f_.) + (g_.)*(x_)])/Sqrt[(a_) + (
c_.)*(x_)^2], x_Symbol] := Simp[2*e*(d + e*x)^(m - 1)*Sqrt[f + g*x]*(S
qrt[a + c*x^2]/(c*(2*m + 1))), x] - Simp[1/(c*(2*m + 1)) Int[((d + e
*x)^(m - 2)/(Sqrt[f + g*x]*Sqrt[a + c*x^2]))*Simp[a*e*(d*g + 2*e*f*(m
- 1)) - c*d^2*f*(2*m + 1) + (a*e^2*g*(2*m - 1) - c*d*(4*e*f*m + d*g*(2
*m + 1)))*x - c*e*(e*f + d*g*(4*m - 1))*x^2, x], x], x] /; FreeQ[{a, c
, d, e, f, g}, x] && IntegerQ[2*m] && GtQ[m, 1]

```

```

736. Int[Sqrt[(f_.) + (g_.)*(x_)]/(((d_.) + (e_.)*(x_))*Sqrt[(a_) + (c_.)*(
x_)^2]), x_Symbol] := Simp[g/e Int[1/(Sqrt[f + g*x]*Sqrt[a + c*x^2))
, x], x] + Simp[(e*f - d*g)/e Int[1/((d + e*x)*Sqrt[f + g*x]*Sqrt[a
+ c*x^2]), x], x] /; FreeQ[{a, c, d, e, f, g}, x]

```

```

737. Int[((d_.) + (e_.)*(x_))^(m_)*Sqrt[(f_.) + (g_.)*(x_)])/Sqrt[(a_) + (
c_.)*(x_)^2], x_Symbol] := Simp[e*(d + e*x)^(m + 1)*Sqrt[f + g*x]*(Sqr
t[a + c*x^2]/((m + 1)*(c*d^2 + a*e^2))), x] + Simp[1/(2*(m + 1)*(c*d^2
+ a*e^2)) Int[((d + e*x)^(m + 1)/(Sqrt[f + g*x]*Sqrt[a + c*x^2]))*S

```

```
imp[2*c*d*f*(m + 1) - e*(a*g) + 2*c*(d*g*(m + 1) - e*f*(m + 2))*x - c*
e*g*(2*m + 5)*x^2, x], x] /; FreeQ[{a, c, d, e, f, g}, x] && IntegerQ[2*m] && LeQ[m, -2]
```

```
738. Int[(((f_.) + (g_.)*(x_.))^n)*((a_) + (c_.)*(x_)^2)^p)/((d_.) + (e
.)*(x.)), x_Symbol] :> Simp[(c*d^2 + a*e^2)/(e*(e*f - d*g)) Int[(f
+ g*x)^(n + 1)*((a + c*x^2)^(p - 1)/(d + e*x)), x], x] - Simp[1/(e*(e*
f - d*g)) Int[(f + g*x)^n*(c*d*f + a*e*g - c*(e*f - d*g)*x)*(a + c*x
^2)^(p - 1), x], x] /; FreeQ[{a, c, d, e, f, g}, x] && !IntegerQ[n] &
& !IntegerQ[p] && GtQ[p, 0] && LtQ[n, -1]
```

```
739. Int[(((f_.) + (g_.)*(x_.))^n)*((a_) + (c_.)*(x_)^2)^p)/((d_.) + (e
.)*(x.)), x_Symbol] :> Simp[e*((e*f - d*g)/(c*d^2 + a*e^2)) Int[(f
+ g*x)^(n - 1)*((a + c*x^2)^(p + 1)/(d + e*x)), x], x] + Simp[1/(c*d^2
+ a*e^2) Int[(f + g*x)^(n - 1)*(c*d*f + a*e*g - c*(e*f - d*g)*x)*(a
+ c*x^2)^p, x], x] /; FreeQ[{a, c, d, e, f, g}, x] && !IntegerQ[n] &
& !IntegerQ[p] && LtQ[p, -1] && GtQ[n, 0]
```

```
740. Int[((f_.) + (g_.)*(x_.))^n)/(((d_.) + (e_.)*(x_.))*Sqrt[(a_) + (c_.)*
(x_)^2]), x_Symbol] :> Int[ExpandIntegrand[1/(Sqrt[f + g*x]*Sqrt[a + c
*x^2]), (f + g*x)^(n + 1/2)/(d + e*x), x], x] /; FreeQ[{a, c, d, e, f,
g}, x] && IntegerQ[n + 1/2]
```

```
741. Int[((d_.) + (e_.)*(x_.))^m)*((f_.) + (g_.)*(x_.))^n)*((a_) + (c_.
)*(x_)^2)^p, x_Symbol] :> Int[ExpandIntegrand[(d + e*x)^m*(f + g*x
)^n*(a + c*x^2)^p, x], x] /; FreeQ[{a, c, d, e, f, g}, x] && (IntegerQ
[p] || (ILtQ[m, 0] && ILtQ[n, 0]))
```

```
742. Int[((d_) + (e_.)*(x_.))^m)*((f_.) + (g_.)*(x_.))^n)*((a_) + (c_.)*
(x_)^2)^p, x_Symbol] :> With[{Q = PolynomialQuotient[(f + g*x)^n, d
+ e*x, x], R = PolynomialRemainder[(f + g*x)^n, d + e*x, x]}, Simp[(e*
R*(d + e*x)^(m + 1)*(a + c*x^2)^(p + 1))/((m + 1)*(c*d^2 + a*e^2)), x]
+ Simp[1/((m + 1)*(c*d^2 + a*e^2)) Int[(d + e*x)^(m + 1)*(a + c*x^2
)^p*ExpandToSum[(m + 1)*(c*d^2 + a*e^2)*Q + c*d*R*(m + 1) - c*e*R*(m
+ 2*p + 3)*x, x], x]] /; FreeQ[{a, c, d, e, f, g, p}, x] && IGtQ[n,
1] && LtQ[m, -1]
```

743.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})} \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[g^n(d + ex)^{(m+n-1)}((a + cx^2)^{(p+1})/(c e^{(n-1)(m+n+2p+1)})), x] + \text{Simp}[1/(c e^n(m+n+2p+1)) \text{Int}[(d + ex)^m(a + cx^2)^p \text{ExpandToSum}[c e^n(m+n+2p+1)(f + gx)^n - c g^n(m+n+2p+1)(d + ex)^n - g^n(d + ex)^{(n-2)}(a e^{2(m+n-1)} - c d^2(m+n+2p+1) - 2 c d e(m+n+p)x), x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, p\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{NeQ}[m+n+2p+1, 0]$
744.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})} \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d + ex)^m(f + gx)^n(a + cx^2)^p, x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, n, p\}, x]$
745.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(u_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(u_{\cdot})\right)^{(n_{\cdot})} \left((a_{\cdot}) + (c_{\cdot})(u_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[(d + ex)^m(f + gx)^n(a + cx^2)^p, x], x, u], x] /; \text{FreeQ}[\{a, c, d, e, f, g, m, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
746.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^n\right)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[x((a + b x^n)^{(p+1})/a), x] /; \text{FreeQ}[\{a, b, n, p\}, x] \&\& \text{EqQ}[1/n + p + 1, 0]$
747.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^n\right)^p, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b x^n)^p, x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
748.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^n\right)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[x((a + b x^n)^p/(n p + 1)), x] + \text{Simp}[a^n(p/(n p + 1)) \text{Int}[(a + b x^n)^{(p-1)}, x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& (\text{IntegerQ}[2 p] \mid \mid \text{LtQ}[\text{Denominator}[p + 1/n], \text{Denominator}[p]])$
749.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^n\right)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-x)((a + b x^n)^{(p+1})/(a^n(p+1))), x] + \text{Simp}[(n(p+1) + 1)/(a^n(p+1)) \text{Int}[(a + b x^n)^{(p+1)}, x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& (\text{IntegerQ}[2 p] \mid \mid \text{Denominator}[p + 1/n] < \text{Denominator}[p])$
750.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^3\right)^{-1}, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/(3 \text{Rt}[a, 3]^2) \text{Int}[1/(\text{Rt}[a, 3] + \text{Rt}[b, 3]x), x], x] + \text{Simp}[1/(3 \text{Rt}[a, 3]^2) \text{Int}[(2$

```
Rt[a, 3] - Rt[b, 3]*x)/(Rt[a, 3]^2 - Rt[a, 3]*Rt[b, 3]*x + Rt[b, 3]^2*
x^2), x], x] /; FreeQ[{a, b}, x]
```

```
751. Int[((a_) + (b_.)*(x_)^(n_))^(n_)-1, x_Symbol] := Module[{r = Numerator[
Rt[a/b, n]], s = Denominator[Rt[a/b, n]], k, u}, Simp[u = Int[(r - s*C
os[(2*k - 1)*(Pi/n)]*x)/(r^2 - 2*r*s*Cos[(2*k - 1)*(Pi/n)]*x + s^2*x^
2), x]; r/(a*n) Int[1/(r + s*x), x] + 2*(r/(a*n)) Sum[u, {k, 1, (n
- 1)/2}], x]] /; FreeQ[{a, b}, x] && IGtQ[(n - 3)/2, 0] && PosQ[a/b]
```

```
752. Int[((a_) + (b_.)*(x_)^(n_))^(n_)-1, x_Symbol] := Module[{r = Numerator[
Rt[-a/b, n]], s = Denominator[Rt[-a/b, n]], k, u}, Simp[u = Int[(r + s
*Cos[(2*k - 1)*(Pi/n)]*x)/(r^2 + 2*r*s*Cos[(2*k - 1)*(Pi/n)]*x + s^2*x
^2), x]; r/(a*n) Int[1/(r - s*x), x] + 2*(r/(a*n)) Sum[u, {k, 1, (
n - 1)/2}], x]] /; FreeQ[{a, b}, x] && IGtQ[(n - 3)/2, 0] && NegQ[a/b]
```

```
753. Int[((a_) + (b_.)*(x_)^(n_))^(n_)-1, x_Symbol] := Module[{r = Numerator[
Rt[a/b, n]], s = Denominator[Rt[a/b, n]], k, u, v}, Simp[u = Int[(r -
s*Cos[(2*k - 1)*(Pi/n)]*x)/(r^2 - 2*r*s*Cos[(2*k - 1)*(Pi/n)]*x + s^2*
x^2), x] + Int[(r + s*Cos[(2*k - 1)*(Pi/n)]*x)/(r^2 + 2*r*s*Cos[(2*k -
1)*(Pi/n)]*x + s^2*x^2), x]; 2*(r^2/(a*n)) Int[1/(r^2 + s^2*x^2), x
] + 2*(r/(a*n)) Sum[u, {k, 1, (n - 2)/4}], x]] /; FreeQ[{a, b}, x] &
& IGtQ[(n - 2)/4, 0] && PosQ[a/b]
```

```
754. Int[((a_) + (b_.)*(x_)^(n_))^(n_)-1, x_Symbol] := Module[{r = Numerator[
Rt[-a/b, n]], s = Denominator[Rt[-a/b, n]], k, u}, Simp[u = Int[(r - s
*Cos[(2*k*Pi)/n]*x)/(r^2 - 2*r*s*Cos[(2*k*Pi)/n]*x + s^2*x^2), x] + In
t[(r + s*Cos[(2*k*Pi)/n]*x)/(r^2 + 2*r*s*Cos[(2*k*Pi)/n]*x + s^2*x^2),
x]; 2*(r^2/(a*n)) Int[1/(r^2 - s^2*x^2), x] + 2*(r/(a*n)) Sum[u,
{k, 1, (n - 2)/4}], x]] /; FreeQ[{a, b}, x] && IGtQ[(n - 2)/4, 0] && N
egQ[a/b]
```

```
755. Int[((a_) + (b_.)*(x_)^4)^(n_)-1, x_Symbol] := With[{r = Numerator[Rt[a/
b, 2]], s = Denominator[Rt[a/b, 2]]}, Simp[1/(2*r) Int[(r - s*x^2)/(
a + b*x^4), x], x] + Simp[1/(2*r) Int[(r + s*x^2)/(a + b*x^4), x], x
]] /; FreeQ[{a, b}, x] && (GtQ[a/b, 0] || (PosQ[a/b] && AtomQ[SplitPro
duct[SumBaseQ, a] && AtomQ[SplitProduct[SumBaseQ, b]]))
```

756.  $\text{Int}[(a_+ + (b_-)(x_-)^4)^{-1}, x\_Symbol] \rightarrow \text{With}[\{r = \text{Numerator}[\text{Rt}[-a/b, 2]], s = \text{Denominator}[\text{Rt}[-a/b, 2]]\}, \text{Simp}[r/(2*a) \text{ Int}[1/(r - s*x^2), x], x] + \text{Simp}[r/(2*a) \text{ Int}[1/(r + s*x^2), x], x]] /; \text{FreeQ}[\{a, b\}, x] \&\& !\text{GtQ}[a/b, 0]$
757.  $\text{Int}[(a_+ + (b_-)(x_-)^n)^{-1}, x\_Symbol] \rightarrow \text{With}[\{r = \text{Numerator}[\text{Rt}[a/b, 4]], s = \text{Denominator}[\text{Rt}[a/b, 4]]\}, \text{Simp}[r/(2*\text{Sqrt}[2]*a) \text{ Int}[(\text{Sqrt}[2]*r - s*x^{n/4})/(r^2 - \text{Sqrt}[2]*r*s*x^{n/4} + s^2*x^{n/2}), x], x] + \text{Simp}[r/(2*\text{Sqrt}[2]*a) \text{ Int}[(\text{Sqrt}[2]*r + s*x^{n/4})/(r^2 + \text{Sqrt}[2]*r*s*x^{n/4} + s^2*x^{n/2}), x], x]] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IGtQ}[n/4, 1] \&\& \text{GtQ}[a/b, 0]$
758.  $\text{Int}[(a_+ + (b_-)(x_-)^n)^{-1}, x\_Symbol] \rightarrow \text{With}[\{r = \text{Numerator}[\text{Rt}[-a/b, 2]], s = \text{Denominator}[\text{Rt}[-a/b, 2]]\}, \text{Simp}[r/(2*a) \text{ Int}[1/(r - s*x^{n/2}), x], x] + \text{Simp}[r/(2*a) \text{ Int}[1/(r + s*x^{n/2}), x], x]] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IGtQ}[n/4, 1] \&\& !\text{GtQ}[a/b, 0]$
759.  $\text{Int}[1/\text{Sqrt}[(a_+ + (b_-)(x_-)^3], x\_Symbol] \rightarrow \text{With}[\{r = \text{Numer}[\text{Rt}[b/a, 3]], s = \text{Denom}[\text{Rt}[b/a, 3]]\}, \text{Simp}[2*\text{Sqrt}[2 + \text{Sqrt}[3]]*(s + r*x)*(\text{Sqrt}[(s^2 - r*s*x + r^2*x^2)/((1 + \text{Sqrt}[3])*s + r*x)^2]/(3^{1/4}*r*\text{Sqrt}[a + b*x^3]*\text{Sqrt}[s*((s + r*x)/((1 + \text{Sqrt}[3])*s + r*x)^2)]))*\text{EllipticF}[\text{ArcSin}[(1 - \text{Sqrt}[3])*s + r*x]/((1 + \text{Sqrt}[3])*s + r*x)], -7 - 4*\text{Sqrt}[3]], x]] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PosQ}[a]$
760.  $\text{Int}[1/\text{Sqrt}[(a_+ + (b_-)(x_-)^3], x\_Symbol] \rightarrow \text{With}[\{r = \text{Numer}[\text{Rt}[b/a, 3]], s = \text{Denom}[\text{Rt}[b/a, 3]]\}, \text{Simp}[2*\text{Sqrt}[2 - \text{Sqrt}[3]]*(s + r*x)*(\text{Sqrt}[(s^2 - r*s*x + r^2*x^2)/((1 - \text{Sqrt}[3])*s + r*x)^2]/(3^{1/4}*r*\text{Sqrt}[a + b*x^3]*\text{Sqrt}[(-s)*((s + r*x)/((1 - \text{Sqrt}[3])*s + r*x)^2)]))*\text{EllipticF}[\text{ArcSin}[(1 + \text{Sqrt}[3])*s + r*x]/((1 - \text{Sqrt}[3])*s + r*x)], -7 + 4*\text{Sqrt}[3]], x]] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{NegQ}[a]$
761.  $\text{Int}[1/\text{Sqrt}[(a_+ + (b_-)(x_-)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b/a, 4]\}, \text{Simp}[(1 + q^2*x^2)*(\text{Sqrt}[(a + b*x^4)/(a*(1 + q^2*x^2)^2])/(2*q*\text{Sqrt}[a + b*x^4]))*\text{EllipticF}[2*\text{ArcTan}[q*x], 1/2], x]] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PosQ}[b/a]$



762.  $\text{Int}[1/\sqrt{(a_+) + (b_+)(x_+)^4}, x\_Symbol] \rightarrow \text{Simp}[(1/(\sqrt{a} \text{Rt}[-b/a, 4])) * \text{EllipticF}[\text{ArcSin}[\text{Rt}[-b/a, 4]*x], -1], x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ \text{NegQ}[b/a] \ \&\& \ \text{GtQ}[a, 0]$
763.  $\text{Int}[1/\sqrt{(a_+) + (b_+)(x_+)^4}, x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[(-a)*b, 2]\}, \text{Simp}[\sqrt{-a + q*x^2} * (\sqrt{(a + q*x^2)}/q) / (\sqrt{2} * \sqrt{-a} * \sqrt{a + b*x^4}) * \text{EllipticF}[\text{ArcSin}[x/\sqrt{(a + q*x^2)/(2*q)}], 1/2], x] /; \text{IntegerQ}[q] /; \text{FreeQ}\{a, b\}, x \ \&\& \ \text{LtQ}[a, 0] \ \&\& \ \text{GtQ}[b, 0]$
764.  $\text{Int}[1/\sqrt{(a_+) + (b_+)(x_+)^4}, x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[(-a)*b, 2]\}, \text{Simp}[\sqrt{(a - q*x^2)/(a + q*x^2)} * (\sqrt{(a + q*x^2)}/q) / (\sqrt{2} * \sqrt{a + b*x^4} * \sqrt{a/(a + q*x^2)}) * \text{EllipticF}[\text{ArcSin}[x/\sqrt{(a + q*x^2)/(2*q)}], 1/2], x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ \text{LtQ}[a, 0] \ \&\& \ \text{GtQ}[b, 0]$
765.  $\text{Int}[1/\sqrt{(a_+) + (b_+)(x_+)^4}, x\_Symbol] \rightarrow \text{Simp}[\sqrt{1 + b*(x^4/a)} / \sqrt{a + b*x^4} \ \text{Int}[1/\sqrt{1 + b*(x^4/a)}, x], x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ \text{NegQ}[b/a] \ \&\& \ !\text{GtQ}[a, 0]$
766.  $\text{Int}[1/\sqrt{(a_+) + (b_+)(x_+)^6}, x\_Symbol] \rightarrow \text{With}\{r = \text{Numer}[\text{Rt}[b/a, 3]], s = \text{Denom}[\text{Rt}[b/a, 3]]\}, \text{Simp}[x*(s + r*x^2) * (\sqrt{(s^2 - r*s*x^2 + r^2*x^4)/(s + (1 + \sqrt{3})*r*x^2)^2}) / (2*3^{1/4} * s * \sqrt{a + b*x^6} * \sqrt{r*x^2 * ((s + r*x^2)/(s + (1 + \sqrt{3})*r*x^2)^2)}) * \text{EllipticF}[\text{ArcCos}[(s + (1 - \sqrt{3})*r*x^2)/(s + (1 + \sqrt{3})*r*x^2)], (2 + \sqrt{3})/4], x] /; \text{FreeQ}\{a, b\}, x]$
767.  $\text{Int}[1/\sqrt{(a_+) + (b_+)(x_+)^8}, x\_Symbol] \rightarrow \text{Simp}[1/2 \ \text{Int}[(1 - \text{Rt}[b/a, 4]*x^2)/\sqrt{a + b*x^8}], x], x] + \text{Simp}[1/2 \ \text{Int}[(1 + \text{Rt}[b/a, 4]*x^2)/\sqrt{a + b*x^8}], x], x] /; \text{FreeQ}\{a, b\}, x]$
768.  $\text{Int}[(a_+) + (b_+)(x_+)^4)^{-3/4}, x\_Symbol] \rightarrow \text{Simp}[x^3 * ((1 + a/(b*x^4))^{3/4} / (a + b*x^4)^{3/4}) \ \text{Int}[1/(x^3 * (1 + a/(b*x^4))^{3/4}), x], x] /; \text{FreeQ}\{a, b\}, x]$
769.  $\text{Int}[(a_+) + (b_+)(x_+)^3)^{-1/3}, x\_Symbol] \rightarrow \text{Simp}[\text{ArcTan}[(1 + 2*\text{Rt}[b, 3] * (x/(a + b*x^3)^{1/3})) / \sqrt{3}] / (\sqrt{3} * \text{Rt}[b, 3]), x] - \text{Simp}[\text{Log}[(a + b*x^3)^{1/3} - \text{Rt}[b, 3]*x] / (2*\text{Rt}[b, 3]), x] /; \text{FreeQ}\{a, b\}, x]$

770.  $\text{Int}[(a + (b \cdot x)^n)^p, x\_Symbol] \rightarrow \text{Simp}[a^{(p + 1/n)} \text{Subst}[\text{Int}[1/(1 - b \cdot x^n)^{(p + 1/n + 1)}, x], x, x/(a + b \cdot x^n)^{(1/n)}], x] /;$   
 $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[-1, p, 0] \ \&\& \ \text{NeQ}[p, -2^{(-1)}] \ \&\& \ \text{IntegerQ}[p + 1/n]$
771.  $\text{Int}[(a + (b \cdot x)^n)^p, x\_Symbol] \rightarrow \text{Simp}[(a/(a + b \cdot x^n))^{(p + 1/n)} \cdot (a + b \cdot x^n)^{(p + 1/n)} \text{Subst}[\text{Int}[1/(1 - b \cdot x^n)^{(p + 1/n + 1)}, x], x, x/(a + b \cdot x^n)^{(1/n)}], x] /;$   
 $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[-1, p, 0] \ \&\& \ \text{NeQ}[p, -2^{(-1)}] \ \&\& \ \text{LtQ}[\text{Denominator}[p + 1/n], \text{Denominator}[p]]$
772.  $\text{Int}[(a + (b \cdot x)^n)^p, x\_Symbol] \rightarrow \text{Int}[x^{(n \cdot p)} \cdot (b + a/x^n)^p, x] /;$   
 $\text{FreeQ}\{a, b, x\} \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{IntegerQ}[p]$
773.  $\text{Int}[(a + (b \cdot x)^n)^p, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b/x^n)^p/x^2, x], x, 1/x] /;$   
 $\text{FreeQ}\{a, b, p, x\} \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ !\text{IntegerQ}[p]$
774.  $\text{Int}[(a + (b \cdot x)^n)^p, x\_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[n]\}, \text{Simp}[k \text{Subst}[\text{Int}[x^{(k - 1)} \cdot (a + b \cdot x^{(k \cdot n)})^p, x], x, x^{(1/k)}], x] /;$   
 $\text{FreeQ}\{a, b, p, x\} \ \&\& \ \text{FractionQ}[n]$
775.  $\text{Int}[(a + (b \cdot x)^n)^p, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b \cdot x^n)^p, x], x] /;$   
 $\text{FreeQ}\{a, b, n, x\} \ \&\& \ \text{IGtQ}[p, 0]$
776.  $\text{Int}[(a + (b \cdot x)^n)^p, x\_Symbol] \rightarrow \text{Simp}[x \cdot (a + b \cdot x^n)^p \cdot (x^n/(a + b \cdot x^n))^p/n \text{Subst}[\text{Int}[1/(x^{(p + 1)} \cdot (1 - b \cdot x)), x], x, x^n/(a + b \cdot x^n)], x] /;$   
 $\text{FreeQ}\{a, b, n, p, x\} \ \&\& \ \text{EqQ}[1/n + p, 0]$
777.  $\text{Int}[(a + (b \cdot x)^n)^p, x\_Symbol] \rightarrow \text{Simp}[(-x) \cdot ((a + b \cdot x^n)^{(p + 1})/(a \cdot n \cdot (p + 1))), x] + \text{Simp}[(n \cdot (p + 1) + 1)/(a \cdot n \cdot (p + 1)) \text{Int}[(a + b \cdot x^n)^{(p + 1)}, x], x] /;$   
 $\text{FreeQ}\{a, b, n, p, x\} \ \&\& \ \text{ILtQ}[\text{Simplify}[1/n + p + 1], 0] \ \&\& \ \text{NeQ}[p, -1]$

778.  $\text{Int}[(a_+ + (b_+)(x_+)^{n_+})^{p_+}, x\_Symbol] \rightarrow \text{Simp}[a^p x \text{Hypergeometric2F1}[-p, 1/n, 1/n + 1, (-b)(x^n/a)], x] /; \text{FreeQ}\{a, b, n, p\}, x] \&\amp; \text{!IGtQ}[p, 0] \&\amp; \text{!IntegerQ}[1/n] \&\amp; \text{!ILtQ}[\text{Simplify}[1/n + p], 0] \&\amp; (\text{IntegerQ}[p] \parallel \text{GtQ}[a, 0])$
779.  $\text{Int}[(a_+ + (b_+)(x_+)^{n_+})^{p_+}, x\_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]} ((a + b x^n)^{\text{FracPart}[p]} / (1 + b(x^n/a))^{\text{FracPart}[p]}) \text{Int}[(1 + b(x^n/a))^p, x], x] /; \text{FreeQ}\{a, b, n, p\}, x] \&\amp; \text{!IGtQ}[p, 0] \&\amp; \text{!IntegerQ}[1/n] \&\amp; \text{!ILtQ}[\text{Simplify}[1/n + p], 0] \&\amp; (\text{IntegerQ}[p] \parallel \text{GtQ}[a, 0])$
780.  $\text{Int}[(a1_+ + (b1_+)(x_+)^{n_+})^{p_+} ((a2_+ + (b2_+)(x_+)^{n_+})^{p_+}), x\_Symbol] \rightarrow \text{Int}[(a1 a2 + b1 b2 x^{(2*n)})^p, x] /; \text{FreeQ}\{a1, b1, a2, b2, n, p\}, x] \&\amp; \text{EqQ}[a2*b1 + a1*b2, 0] \&\amp; (\text{IntegerQ}[p] \parallel (\text{GtQ}[a1, 0] \&\amp; \text{GtQ}[a2, 0]))$
781.  $\text{Int}[(a1_+ + (b1_+)(x_+)^{n_+})^{p_+} ((a2_+ + (b2_+)(x_+)^{n_+})^{p_+}), x\_Symbol] \rightarrow \text{Simp}[x (a1 + b1 x^n)^p ((a2 + b2 x^n)^p / (2*n*p + 1)), x] + \text{Simp}[2*a1*a2*n*(p/(2*n*p + 1)) \text{Int}[(a1 + b1 x^n)^{p-1} (a2 + b2 x^n)^{p-1}, x], x] /; \text{FreeQ}\{a1, b1, a2, b2\}, x] \&\amp; \text{EqQ}[a2*b1 + a1*b2, 0] \&\amp; \text{IGtQ}[2*n, 0] \&\amp; \text{GtQ}[p, 0] \&\amp; (\text{IntegerQ}[2*p] \parallel \text{Denominator}[p + 1/n] < \text{Denominator}[p])$
782.  $\text{Int}[(a1_+ + (b1_+)(x_+)^{n_+})^{p_+} ((a2_+ + (b2_+)(x_+)^{n_+})^{p_+}), x\_Symbol] \rightarrow \text{Simp}[(-x) (a1 + b1 x^n)^{p+1} ((a2 + b2 x^n)^{p+1} / (2*a1*a2*n*(p+1))), x] + \text{Simp}[(2*n*(p+1) + 1) / (2*a1*a2*n*(p+1)) \text{Int}[(a1 + b1 x^n)^{p+1} (a2 + b2 x^n)^{p+1}, x], x] /; \text{FreeQ}\{a1, b1, a2, b2\}, x] \&\amp; \text{EqQ}[a2*b1 + a1*b2, 0] \&\amp; \text{IGtQ}[2*n, 0] \&\amp; \text{LtQ}[p, -1] \&\amp; (\text{IntegerQ}[2*p] \parallel \text{Denominator}[p + 1/n] < \text{Denominator}[p])$
783.  $\text{Int}[(a1_+ + (b1_+)(x_+)^{n_+})^{p_+} ((a2_+ + (b2_+)(x_+)^{n_+})^{p_+}), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a1 + b1/x^n)^p ((a2 + b2/x^n)^p / x^2), x], x, 1/x] /; \text{FreeQ}\{a1, b1, a2, b2, p\}, x] \&\amp; \text{EqQ}[a2*b1 + a1*b2, 0] \&\amp; \text{ILtQ}[2*n, 0]$
784.  $\text{Int}[(a1_+ + (b1_+)(x_+)^{n_+})^{p_+} ((a2_+ + (b2_+)(x_+)^{n_+})^{p_+}), x\_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[2*n]\}, \text{Simp}[k \text{Subst}[\text{Int}[x^{k-1} (a1 + b1 x^{k*n})^p (a2 + b2 x^{k*n})^p, x], x, x^{1/k}], x] /; \text{FreeQ}$

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[{a1, b1, a2, b2, p}, x] && EqQ[a2*b1 + a1*b2, 0] && FractionQ[2*n]

785. Int[((a1_.) + (b1_.)*(x_)^(n_))^(p_)*((a2_.) + (b2_.)*(x_)^(n_))^(p_),
  x_Symbol] :> Simp[(a1 + b1*x^n)^FracPart[p]*((a2 + b2*x^n)^FracPart[p]
]/(a1*a2 + b1*b2*x^(2*n))^FracPart[p]) Int[(a1*a2 + b1*b2*x^(2*n))^p
, x], x] /; FreeQ[{a1, b1, a2, b2, n, p}, x] && EqQ[a2*b1 + a1*b2, 0]
&& !IntegerQ[p]

786. Int[((a_) + (b_.)*((c_.)*(x_)^(q_.))^(n_))^(p_), x_Symbol] :> Simp[x/(
c*x^q)^(1/q) Subst[Int[(a + b*x^(n*q))^p, x], x, (c*x^q)^(1/q)], x]
/; FreeQ[{a, b, c, n, p, q}, x] && IntegerQ[n*q] && NeQ[x, (c*x^q)^(1/
q)]

787. Int[((a_) + (b_.)*((c_.)*(x_)^(q_.))^(n_))^(p_), x_Symbol] :> With[{k
= Denominator[n]}, Subst[Int[(a + b*c^n*x^(n*q))^p, x], x^(1/k), (c*x^
q)^(1/k)/(c^(1/k)*(x^(1/k))^(q - 1))]] /; FreeQ[{a, b, c, p, q}, x] &&
FractionQ[n]

788. Int[((a_) + (b_.)*((c_.)*(x_)^(q_.))^(n_))^(p_), x_Symbol] :> Subst[Int
t[(a + b*c^n*x^(n*q))^p, x], x^(n*q), (c*x^q)^n/c^n] /; FreeQ[{a, b, c
, n, p, q}, x] && !RationalQ[n]

789. Int[((a_) + (b_.)*((d_.)*(x_)^(q_.))^(n_))^(p_), x_Symbol] :> -Subst[Int
[(a + b*(d/x^q)^n)^p/x^2, x], x, 1/x] /; FreeQ[{a, b, d, n, p}, x] &
& ILtQ[q, 0]

790. Int[((a_) + (b_.)*((d_.)*(x_)^(q_.))^(n_))^(p_), x_Symbol] :> With[{s
= Denominator[q]}, Simp[s Subst[Int[x^(s - 1)*(a + b*(d*x^(q*s))^n)^
p, x], x, x^(1/s)], x]] /; FreeQ[{a, b, d, n, p}, x] && FractionQ[q]

791. Int[((c_.)*(x_))^(m_.)*((a1_) + (b1_.)*(x_)^(n_))^(p_)*((a2_) + (b2_.)
*(x_)^(n_))^(p_), x_Symbol] :> Int[(c*x)^m*(a1*a2 + b1*b2*x^(2*n))^p,
x] /; FreeQ[{a1, b1, a2, b2, c, m, n, p}, x] && EqQ[a2*b1 + a1*b2, 0]
&& (IntegerQ[p] || (GtQ[a1, 0] && GtQ[a2, 0]))

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792. $\text{Int}[(x_)^{(m_.)}/((a_) + (b_.)*(x_)^{(n_.)}), x_Symbol] \rightarrow \text{Simp}[\text{Log}[\text{RemoveContent}[a + b*x^n, x]]/(b*n), x] /; \text{FreeQ}[\{a, b, m, n\}, x] \ \&\& \ \text{EqQ}[m, n - 1]$
793. $\text{Int}[(x_)^{(m_.)*((a_) + (b_.)*(x_)^{(n_.)})^{(p_.)}], x_Symbol] \rightarrow \text{Simp}[(a + b*x^n)^{(p + 1)}/(b*n*(p + 1)), x] /; \text{FreeQ}[\{a, b, m, n, p\}, x] \ \&\& \ \text{EqQ}[m, n - 1] \ \&\& \ \text{NeQ}[p, -1]$
794. $\text{Int}[(x_)^{(m_.)*((a1_) + (b1_.)*(x_)^{(n_.)})^{(p_.)*((a2_) + (b2_.)*(x_)^{(n_.)})^{(p_.)}], x_Symbol] \rightarrow \text{Simp}[(a1 + b1*x^n)^{(p + 1)*((a2 + b2*x^n)^{(p + 1)}/(2*b1*b2*n*(p + 1)))}, x] /; \text{FreeQ}[\{a1, b1, a2, b2, m, n, p\}, x] \ \&\& \ \text{EqQ}[a2*b1 + a1*b2, 0] \ \&\& \ \text{EqQ}[m, 2*n - 1] \ \&\& \ \text{NeQ}[p, -1]$
795. $\text{Int}[(x_)^{(m_.)*((a_) + (b_.)*(x_)^{(n_.)})^{(p_.)}], x_Symbol] \rightarrow \text{Int}[x^{(m + n*p)}*(b + a/x^n)^p, x] /; \text{FreeQ}[\{a, b, m, n\}, x] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{NegQ}[n]$
796. $\text{Int}[(c_.)*(x_)^{(m_.)*((a_) + (b_.)*(x_)^{(n_.)})^{(p_.)}], x_Symbol] \rightarrow \text{Simp}[(c*x)^{(m + 1)*((a + b*x^n)^{(p + 1)}/(a*c*(m + 1)))}, x] /; \text{FreeQ}[\{a, b, c, m, n, p\}, x] \ \&\& \ \text{EqQ}[(m + 1)/n + p + 1, 0] \ \&\& \ \text{NeQ}[m, -1]$
797. $\text{Int}[(c_.)*(x_)^{(m_.)*((a1_) + (b1_.)*(x_)^{(n_.)})^{(p_.)*((a2_) + (b2_.)*(x_)^{(n_.)})^{(p_.)}], x_Symbol] \rightarrow \text{Simp}[(c*x)^{(m + 1)*((a1 + b1*x^n)^{(p + 1)*((a2 + b2*x^n)^{(p + 1)}/(a1*a2*c*(m + 1)))}, x] /; \text{FreeQ}[\{a1, b1, a2, b2, c, m, n, p\}, x] \ \&\& \ \text{EqQ}[a2*b1 + a1*b2, 0] \ \&\& \ \text{EqQ}[(m + 1)/(2*n) + p + 1, 0] \ \&\& \ \text{NeQ}[m, -1]$
798. $\text{Int}[(x_)^{(m_.)*((a_) + (b_.)*(x_)^{(n_.)})^{(p_.)}], x_Symbol] \rightarrow \text{Simp}[1/n \ \text{Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n] - 1)*(a + b*x)^p}, x], x, x^n], x] /; \text{FreeQ}[\{a, b, m, n, p\}, x] \ \&\& \ \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
799. $\text{Int}[(x_)^{(m_.)*((a1_) + (b1_.)*(x_)^{(n_.)})^{(p_.)*((a2_) + (b2_.)*(x_)^{(n_.)})^{(p_.)}], x_Symbol] \rightarrow \text{Simp}[1/n \ \text{Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n] - 1)*(a1 + b1*x)^p*(a2 + b2*x)^p}, x], x, x^n], x] /; \text{FreeQ}[\{a1, b1, a2, b2, m, n, p\}, x] \ \&\& \ \text{EqQ}[a2*b1 + a1*b2, 0] \ \&\& \ \text{IntegerQ}[\text{Simplify}[(m + 1)/(2*n)]]$

800. $\text{Int}[(c_*)(x_*)^{(m_*)}((a_*) + (b_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[m]}*((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*x^n)^p, x], x] /; \text{FreeQ}\{a, b, c, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
801. $\text{Int}[(c_*)(x_*)^{(m_*)}((a1_*) + (b1_*)*(x_*)^{(n_*)})^{(p_*)}((a2_*) + (b2_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[m]}*((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /; \text{FreeQ}\{a1, b1, a2, b2, c, m, n, p\}, x] \&\& \text{EqQ}[a2*b1 + a1*b2, 0] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/(2*n)]]$
802. $\text{Int}[(c_*)(x_*)^{(m_*)}((a_*) + (b_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(c*x)^m*(a + b*x^n)^p, x], x] /; \text{FreeQ}\{a, b, c, m, n\}, x] \&\& \text{IGtQ}[p, 0]$
803. $\text{Int}[(x_*)^{(m_*)}((a_*) + (b_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*((a + b*x^n)^{(p + 1)}/(a*(m + 1))), x] - \text{Simp}[b*((m + n*(p + 1) + 1)/(a*(m + 1))) \text{Int}[x^{(m + n)}*(a + b*x^n)^p, x], x] /; \text{FreeQ}\{a, b, m, n, p\}, x] \&\& \text{ILtQ}[\text{Simplify}[(m + 1)/n + p + 1], 0] \&\& \text{NeQ}[m, -1]$
804. $\text{Int}[(x_*)^{(m_*)}((a1_*) + (b1_*)*(x_*)^{(n_*)})^{(p_*)}((a2_*) + (b2_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*(a1 + b1*x^n)^{(p + 1)}*((a2 + b2*x^n)^{(p + 1)}/(a1*a2*(m + 1))), x] - \text{Simp}[b1*b2*((m + 2*n*(p + 1) + 1)/(a1*a2*(m + 1))) \text{Int}[x^{(m + 2*n)}*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /; \text{FreeQ}\{a1, b1, a2, b2, m, n, p\}, x] \&\& \text{EqQ}[a2*b1 + a1*b2, 0] \&\& \text{ILtQ}[\text{Simplify}[(m + 1)/(2*n) + p + 1], 0] \&\& \text{NeQ}[m, -1]$
805. $\text{Int}[(c_*)(x_*)^{(m_*)}((a_*) + (b_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[(-(c*x)^{(m + 1)}*((a + b*x^n)^{(p + 1)}/(a*c*n*(p + 1))), x] + \text{Simp}[(m + n*(p + 1) + 1)/(a*n*(p + 1)) \text{Int}[(c*x)^m*(a + b*x^n)^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, m, n, p\}, x] \&\& \text{ILtQ}[\text{Simplify}[(m + 1)/n + p + 1], 0] \&\& \text{NeQ}[p, -1]$
806. $\text{Int}[(c_*)(x_*)^{(m_*)}((a1_*) + (b1_*)*(x_*)^{(n_*)})^{(p_*)}((a2_*) + (b2_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[(-(c*x)^{(m + 1)}*(a1 + b1*x^n)^p$

- $$+ 1) * ((a_2 + b_2 * x^n)^{(p+1}) / (2 * a_1 * a_2 * c^n * (p+1))), x] + \text{Simp}[(m + 2 * n * (p + 1) + 1) / (2 * a_1 * a_2 * n * (p + 1)) \text{Int}[(c * x)^m * (a_1 + b_1 * x^n)^{(p+1)} * (a_2 + b_2 * x^n)^{(p+1)}, x], x] /;$$

$$\text{FreeQ}[\{a_1, b_1, a_2, b_2, c, m, n, p\}, x] \ \&\& \ \text{EqQ}[a_2 * b_1 + a_1 * b_2, 0] \ \&\& \ \text{ILtQ}[\text{Simplify}[(m + 1) / (2 * n) + p + 1], 0] \ \&\& \ \text{NeQ}[p, -1]$$
807. $\text{Int}[(x_)^{(m_.)} * ((a_) + (b_.) * (x_)^{(n_)})^{(p_)}, x_Symbol] := \text{With}[\{k = \text{GCD}[m + 1, n]\}, \text{Simp}[1/k \text{Subst}[\text{Int}[x^{((m + 1)/k - 1)} * (a + b * x^{(n/k)})^p, x], x, x^k], x] /; k \neq 1] /;$ $\text{FreeQ}[\{a, b, p\}, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[m]$
808. $\text{Int}[(x_)^{(m_.)} * ((a_1_) + (b_1_) * (x_)^{(n_)})^{(p_)} * ((a_2_) + (b_2_) * (x_)^{(n_)})^{(p_)}, x_Symbol] := \text{With}[\{k = \text{GCD}[m + 1, 2 * n]\}, \text{Simp}[1/k \text{Subst}[\text{Int}[x^{((m + 1)/k - 1)} * (a_1 + b_1 * x^{(n/k)})^p * (a_2 + b_2 * x^{(n/k)})^p, x], x, x^k], x] /; k \neq 1] /;$ $\text{FreeQ}[\{a_1, b_1, a_2, b_2, p\}, x] \ \&\& \ \text{EqQ}[a_2 * b_1 + a_1 * b_2, 0] \ \&\& \ \text{IGtQ}[2 * n, 0] \ \&\& \ \text{IntegerQ}[m]$
809. $\text{Int}[((c_) * (x_))^{(m_.)} * ((a_) + (b_.) * (x_)^{(n_)})^{(p_)}, x_Symbol] := \text{Simp}[(c * x)^{(m + 1)} * ((a + b * x^n)^p / (c * (m + 1))), x] - \text{Simp}[b * n * (p / (c^n * (m + 1))) \text{Int}[(c * x)^{(m + n)} * (a + b * x^n)^{(p - 1)}, x], x] /;$ $\text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{!ILtQ}[(m + n * p + n + 1) / n, 0] \ \&\& \ \text{IntBinomialQ}[a, b, c, n, m, p, x]$
810. $\text{Int}[((c_) * (x_))^{(m_.)} * ((a_1_) + (b_1_) * (x_)^{(n_)})^{(p_)} * ((a_2_) + (b_2_) * (x_)^{(n_)})^{(p_)}, x_Symbol] := \text{Simp}[(c * x)^{(m + 1)} * (a_1 + b_1 * x^n)^p * ((a_2 + b_2 * x^n)^p / (c * (m + 1))), x] - \text{Simp}[2 * b_1 * b_2 * n * (p / (c^{(2 * n)} * (m + 1))) \text{Int}[(c * x)^{(m + 2 * n)} * (a_1 + b_1 * x^n)^{(p - 1)} * (a_2 + b_2 * x^n)^{(p - 1)}, x], x] /;$ $\text{FreeQ}[\{a_1, b_1, a_2, b_2, c, m\}, x] \ \&\& \ \text{EqQ}[a_2 * b_1 + a_1 * b_2, 0] \ \&\& \ \text{IGtQ}[2 * n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{NeQ}[m + 2 * n * p + 1, 0] \ \&\& \ \text{IntBinomialQ}[a_1 * a_2, b_1 * b_2, c, 2 * n, m, p, x]$
811. $\text{Int}[((c_) * (x_))^{(m_.)} * ((a_) + (b_.) * (x_)^{(n_)})^{(p_)}, x_Symbol] := \text{Simp}[(c * x)^{(m + 1)} * ((a + b * x^n)^p / (c * (m + n * p + 1))), x] + \text{Simp}[a * n * (p / (m + n * p + 1)) \text{Int}[(c * x)^m * (a + b * x^n)^{(p - 1)}, x], x] /;$ $\text{FreeQ}[\{a, b, c, m\}, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{NeQ}[m + n * p + 1, 0] \ \&\& \ \text{IntBinomialQ}[a, b, c, n, m, p, x]$

812. $\text{Int}[(c \cdot x)^m \cdot (a_1 + b_1 \cdot x^n)^p \cdot (a_2 + b_2 \cdot x^n)^p \cdot (x^n)^p, x_Symbol] := \text{Simp}[(c \cdot x)^{m+1} \cdot (a_1 + b_1 \cdot x^n)^p \cdot (a_2 + b_2 \cdot x^n)^p / (c \cdot (m + 2 \cdot n \cdot p + 1)), x] + \text{Simp}[2 \cdot a_1 \cdot a_2 \cdot n \cdot p / (m + 2 \cdot n \cdot p + 1) \cdot \text{Int}[(c \cdot x)^m \cdot (a_1 + b_1 \cdot x^n)^{p-1} \cdot (a_2 + b_2 \cdot x^n)^{p-1}, x], x] /;$ $\text{FreeQ}\{a_1, b_1, a_2, b_2, c, m\}, x \} \ \&\& \ \text{EqQ}[a_2 \cdot b_1 + a_1 \cdot b_2, 0] \ \&\& \ \text{IGtQ}[2 \cdot n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{NeQ}[m + 2 \cdot n \cdot p + 1, 0] \ \&\& \ \text{IntBinomialQ}[a_1 \cdot a_2, b_1 \cdot b_2, c, 2 \cdot n, m, p, x]$
813. $\text{Int}[x^2 / ((a + b \cdot x^4)^{5/4}), x_Symbol] := \text{Simp}[x \cdot ((1 + a / (b \cdot x^4))^{1/4} / (b \cdot (a + b \cdot x^4)^{1/4})) \cdot \text{Int}[1 / (x^3 \cdot (1 + a / (b \cdot x^4))^{5/4}), x], x] /;$ $\text{FreeQ}\{a, b\}, x \} \ \&\& \ \text{PosQ}[b/a]$
814. $\text{Int}[x^2 / ((a + b \cdot x^4)^{5/4}), x_Symbol] := -\text{Simp}[(b \cdot x \cdot (a + b \cdot x^4)^{1/4})^{-1}, x] - \text{Simp}[1/b \cdot \text{Int}[1 / (x^2 \cdot (a + b \cdot x^4)^{1/4}), x], x] /;$ $\text{FreeQ}\{a, b\}, x \} \ \&\& \ \text{NegQ}[b/a]$
815. $\text{Int}[x^m / ((a + b \cdot x^4)^{5/4}), x_Symbol] := \text{Simp}[x^{m-3} / (b \cdot (m-4) \cdot (a + b \cdot x^4)^{1/4}), x] - \text{Simp}[a \cdot (m-3) / (b \cdot (m-4)) \cdot \text{Int}[x^{m-4} / (a + b \cdot x^4)^{5/4}, x], x] /;$ $\text{FreeQ}\{a, b\}, x \} \ \&\& \ \text{PosQ}[b/a] \ \&\& \ \text{IGtQ}[(m-2)/4, 0]$
816. $\text{Int}[x^m / ((a + b \cdot x^4)^{5/4}), x_Symbol] := \text{Simp}[x^{m+1} / (a \cdot (m+1) \cdot (a + b \cdot x^4)^{1/4}), x] - \text{Simp}[b \cdot m / (a \cdot (m+1)) \cdot \text{Int}[x^{m+4} / (a + b \cdot x^4)^{5/4}, x], x] /;$ $\text{FreeQ}\{a, b\}, x \} \ \&\& \ \text{PosQ}[b/a] \ \&\& \ \text{ILtQ}[(m-2)/4, 0]$
817. $\text{Int}[(c \cdot x)^m \cdot (a + b \cdot x^n)^p, x_Symbol] := \text{Simp}[c^{n-1} \cdot (c \cdot x)^{m-n+1} \cdot (a + b \cdot x^n)^{p+1} / (b \cdot n \cdot (p+1)), x] - \text{Simp}[c^n \cdot (m-n+1) / (b \cdot n \cdot (p+1)) \cdot \text{Int}[(c \cdot x)^{m-n} \cdot (a + b \cdot x^n)^{p+1}, x], x] /;$ $\text{FreeQ}\{a, b, c\}, x \} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[m+1, n] \ \&\& \ \text{!ILtQ}[(m+n \cdot (p+1)+1)/n, 0] \ \&\& \ \text{IntBinomialQ}[a, b, c, n, m, p, x]$
818. $\text{Int}[(c \cdot x)^m \cdot (a_1 + b_1 \cdot x^n)^p \cdot (a_2 + b_2 \cdot x^n)^p \cdot (x^n)^p, x_Symbol] := \text{Simp}[c^{2n-1} \cdot (c \cdot x)^{m-2n+1} \cdot (a_1 + b_1 \cdot x^n)^{p+1} \cdot (a_2 + b_2 \cdot x^n)^{p+1} / (2 \cdot b_1 \cdot b_2 \cdot n \cdot (p+1)), x] - \text{Simp}[c^{2n} \cdot (m-2n+1) / (2 \cdot b_1 \cdot b_2 \cdot n \cdot (p+1)) \cdot \text{Int}[(c \cdot x)^{m-2n}$


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*(a1 + b1*x^n)^(p + 1)*(a2 + b2*x^n)^(p + 1), x], x] /; FreeQ[{a1, b1,
a2, b2, c}, x] && EqQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && LtQ[p, -1]
&& m + 1 > 2*n && !ILtQ[(m + 2*n*(p + 1) + 1)/(2*n), 0] && IntBinomi
alQ[a1*a2, b1*b2, c, 2*n, m, p, x]

```

```

819. Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Sim
p[(-(c*x)^(m + 1))*((a + b*x^n)^(p + 1)/(a*c*n*(p + 1))), x] + Simp[(m
+ n*(p + 1) + 1)/(a*n*(p + 1)) Int[(c*x)^m*(a + b*x^n)^(p + 1), x],
x] /; FreeQ[{a, b, c, m}, x] && IGtQ[n, 0] && LtQ[p, -1] && IntBinomi
alQ[a, b, c, n, m, p, x]

```

```

820. Int[((c_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)
*(x_)^(n_))^(p_), x_Symbol] := Simp[(-(c*x)^(m + 1))*(a1 + b1*x^n)^(p
+ 1)*((a2 + b2*x^n)^(p + 1)/(2*a1*a2*c*n*(p + 1))), x] + Simp[(m + 2*n
*(p + 1) + 1)/(2*a1*a2*n*(p + 1)) Int[(c*x)^m*(a1 + b1*x^n)^(p + 1)*
(a2 + b2*x^n)^(p + 1), x], x] /; FreeQ[{a1, b1, a2, b2, c, m}, x] && E
qQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && LtQ[p, -1] && IntBinomialQ[a1*
a2, b1*b2, c, 2*n, m, p, x]

```

```

821. Int[(x_)/((a_) + (b_)*(x_)^3), x_Symbol] := Simp[-(3*Rt[a, 3]*Rt[b, 3
])^(-1) Int[1/(Rt[a, 3] + Rt[b, 3]*x), x], x] + Simp[1/(3*Rt[a, 3]*R
t[b, 3]) Int[(Rt[a, 3] + Rt[b, 3]*x)/(Rt[a, 3]^2 - Rt[a, 3]*Rt[b, 3]
*x + Rt[b, 3]^2*x^2), x], x] /; FreeQ[{a, b}, x]

```

```

822. Int[(x_)^(m_)/((a_) + (b_)*(x_)^(n_)), x_Symbol] := Module[{r = Nume
rator[Rt[a/b, n]], s = Denominator[Rt[a/b, n]], k, u}, Simp[u = Int[(r
*cos[(2*k - 1)*m*(Pi/n)] - s*cos[(2*k - 1)*(m + 1)*(Pi/n)]*x)/(r^2 - 2
*r*s*cos[(2*k - 1)*(Pi/n)]*x + s^2*x^2), x]; -(-r)^(m + 1)/(a*n*s^m)
Int[1/(r + s*x), x] + 2*(r^(m + 1)/(a*n*s^m) Sum[u, {k, 1, (n - 1)
/2}], x]] /; FreeQ[{a, b}, x] && IGtQ[(n - 1)/2, 0] && IGtQ[m, 0] && L
tQ[m, n - 1] && PosQ[a/b]

```

```

823. Int[(x_)^(m_)/((a_) + (b_)*(x_)^(n_)), x_Symbol] := Module[{r = Nume
rator[Rt[-a/b, n]], s = Denominator[Rt[-a/b, n]], k, u}, Simp[u = Int[
(r*cos[(2*k - 1)*m*(Pi/n)] + s*cos[(2*k - 1)*(m + 1)*(Pi/n)]*x)/(r^2 +
2*r*s*cos[(2*k - 1)*(Pi/n)]*x + s^2*x^2), x]; r^(m + 1)/(a*n*s^m) I
nt[1/(r - s*x), x] - 2*(-r)^(m + 1)/(a*n*s^m) Sum[u, {k, 1, (n - 1

```

```
) / 2}], x]] /; FreeQ[{a, b}, x] && IGtQ[(n - 1)/2, 0] && IGtQ[m, 0] &&
LtQ[m, n - 1] && NegQ[a/b]
```

```
824. Int[(x_)^(m_)/((a_) + (b_)*(x_)^(n_)), x_Symbol] := Module[{r = Nume-
rator[Rt[a/b, n]], s = Denominator[Rt[a/b, n]], k, u}, Simp[u = Int[(r
*Cos[(2*k - 1)*m*(Pi/n)] - s*Cos[(2*k - 1)*(m + 1)*(Pi/n)]*x)/(r^2 - 2
*r*s*Cos[(2*k - 1)*(Pi/n)]*x + s^2*x^2), x] + Int[(r*Cos[(2*k - 1)*m*(
Pi/n)] + s*Cos[(2*k - 1)*(m + 1)*(Pi/n)]*x)/(r^2 + 2*r*s*Cos[(2*k - 1)
*(Pi/n)]*x + s^2*x^2), x]; 2*(-1)^(m/2)*(r^(m + 2)/(a*n*s^m)) Int[1/
(r^2 + s^2*x^2), x] + 2*(r^(m + 1)/(a*n*s^m)) Sum[u, {k, 1, (n - 2)/
4}], x]] /; FreeQ[{a, b}, x] && IGtQ[(n - 2)/4, 0] && IGtQ[m, 0] && Lt
Q[m, n - 1] && PosQ[a/b]
```

```
825. Int[(x_)^(m_)/((a_) + (b_)*(x_)^(n_)), x_Symbol] := Module[{r = Nume-
rator[Rt[-a/b, n]], s = Denominator[Rt[-a/b, n]], k, u}, Simp[u = Int[
(r*Cos[2*k*m*(Pi/n)] - s*Cos[2*k*(m + 1)*(Pi/n)]*x)/(r^2 - 2*r*s*Cos[2
*k*(Pi/n)]*x + s^2*x^2), x] + Int[(r*Cos[2*k*m*(Pi/n)] + s*Cos[2*k*(m
+ 1)*(Pi/n)]*x)/(r^2 + 2*r*s*Cos[2*k*(Pi/n)]*x + s^2*x^2), x]; 2*(r^(m
+ 2)/(a*n*s^m)) Int[1/(r^2 - s^2*x^2), x] + 2*(r^(m + 1)/(a*n*s^m))
Sum[u, {k, 1, (n - 2)/4}], x]] /; FreeQ[{a, b}, x] && IGtQ[(n - 2)/
4, 0] && IGtQ[m, 0] && LtQ[m, n - 1] && NegQ[a/b]
```

```
826. Int[(x_)^2/((a_) + (b_)*(x_)^4), x_Symbol] := With[{r = Numerator[Rt[
a/b, 2]], s = Denominator[Rt[a/b, 2]]}, Simp[1/(2*s) Int[(r + s*x^2)
/(a + b*x^4), x], x] - Simp[1/(2*s) Int[(r - s*x^2)/(a + b*x^4), x],
x]] /; FreeQ[{a, b}, x] && (GtQ[a/b, 0] || (PosQ[a/b] && AtomQ[SplitP
roduct[SumBaseQ, a]] && AtomQ[SplitProduct[SumBaseQ, b]]))
```

```
827. Int[(x_)^2/((a_) + (b_)*(x_)^4), x_Symbol] := With[{r = Numerator[Rt[
-a/b, 2]], s = Denominator[Rt[-a/b, 2]]}, Simp[s/(2*b) Int[1/(r + s*
x^2), x], x] - Simp[s/(2*b) Int[1/(r - s*x^2), x], x]] /; FreeQ[{a,
b}, x] && !GtQ[a/b, 0]
```

```
828. Int[(x_)^(m_)/((a_) + (b_)*(x_)^(n_)), x_Symbol] := With[{r = Nume-
rator[Rt[a/b, 4]], s = Denominator[Rt[a/b, 4]]}, Simp[s^3/(2*Sqrt[2]*b*r
) Int[x^(m - n/4)/(r^2 - Sqrt[2]*r*s*x^(n/4) + s^2*x^(n/2)), x], x]
- Simp[s^3/(2*Sqrt[2]*b*r) Int[x^(m - n/4)/(r^2 + Sqrt[2]*r*s*x^(n/4)
```

) + s²*x^(n/2)), x], x]] /; FreeQ[{a, b}, x] && IGtQ[n/4, 0] && IGtQ[m, 0] && LtQ[m, n - 1] && GtQ[a/b, 0]

829. Int[(x_)^(m)/((a_) + (b_.)*(x_)⁽ⁿ⁾), x_Symbol] := With[{r = Numerator[Rt[-a/b, 2]], s = Denominator[Rt[-a/b, 2]]}, Simp[r/(2*a) Int[x^m/(r + s*x^(n/2)), x], x] + Simp[r/(2*a) Int[x^m/(r - s*x^(n/2)), x], x]] /; FreeQ[{a, b}, x] && IGtQ[n/4, 0] && IGtQ[m, 0] && LtQ[m, n/2] && !GtQ[a/b, 0]

830. Int[(x_)^(m)/((a_) + (b_.)*(x_)⁽ⁿ⁾), x_Symbol] := With[{r = Numerator[Rt[-a/b, 2]], s = Denominator[Rt[-a/b, 2]]}, Simp[s/(2*b) Int[x^(m - n/2)/(r + s*x^(n/2)), x], x] - Simp[s/(2*b) Int[x^(m - n/2)/(r - s*x^(n/2)), x], x]] /; FreeQ[{a, b}, x] && IGtQ[n/4, 0] && IGtQ[m, 0] && LeQ[n/2, m] && LtQ[m, n] && !GtQ[a/b, 0]

831. Int[(x_)^(m)/((a_) + (b_.)*(x_)⁽ⁿ⁾), x_Symbol] := Int[PolynomialDivide[x^m, a + b*xⁿ, x], x] /; FreeQ[{a, b}, x] && IGtQ[m, 0] && IGtQ[n, 0] && GtQ[m, 2*n - 1]

832. Int[(x_)/Sqrt[(a_) + (b_.)*(x_)³], x_Symbol] := With[{r = Numerator[Rt[b/a, 3]], s = Denominator[Rt[b/a, 3]]}, Simp[(-(1 - Sqrt[3]))*(s/r) Int[1/Sqrt[a + b*x³], x], x] + Simp[1/r Int[((1 - Sqrt[3])*s + r*x)/Sqrt[a + b*x³], x], x]] /; FreeQ[{a, b}, x] && PosQ[a]

833. Int[(x_)/Sqrt[(a_) + (b_.)*(x_)³], x_Symbol] := With[{r = Numerator[Rt[b/a, 3]], s = Denominator[Rt[b/a, 3]]}, Simp[(-(1 + Sqrt[3]))*(s/r) Int[1/Sqrt[a + b*x³], x], x] + Simp[1/r Int[((1 + Sqrt[3])*s + r*x)/Sqrt[a + b*x³], x], x]] /; FreeQ[{a, b}, x] && NegQ[a]

834. Int[(x_)²/Sqrt[(a_) + (b_.)*(x_)⁴], x_Symbol] := With[{q = Rt[b/a, 2]}, Simp[1/q Int[1/Sqrt[a + b*x⁴], x], x] - Simp[1/q Int[(1 - q*x²)/Sqrt[a + b*x⁴], x], x]] /; FreeQ[{a, b}, x] && PosQ[b/a]

835. Int[(x_)²/Sqrt[(a_) + (b_.)*(x_)⁴], x_Symbol] := With[{q = Rt[-b/a, 2]}, Simp[1/q Int[1/Sqrt[a + b*x⁴], x], x] - Simp[1/q Int[(1 - q*x²)/Sqrt[a + b*x⁴], x], x]] /; FreeQ[{a, b}, x] && LtQ[a, 0] && GtQ[

b, 0]

836. $\text{Int}[(x_)^2/\text{Sqrt}[(a_)+(b_)*(x_)^4], x_Symbol] :> \text{With}[\{q = \text{Rt}[-b/a, 2]\}, \text{Simp}[-q^{(-1)} \text{Int}[1/\text{Sqrt}[a + b*x^4], x], x] + \text{Simp}[1/q \text{Int}[(1 + q*x^2)/\text{Sqrt}[a + b*x^4], x], x]] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{NegQ}[b/a]$
837. $\text{Int}[(x_)^4/\text{Sqrt}[(a_)+(b_)*(x_)^6], x_Symbol] :> \text{With}[\{r = \text{Numer}[\text{Rt}[b/a, 3]], s = \text{Denom}[\text{Rt}[b/a, 3]]\}, \text{Simp}[(\text{Sqrt}[3] - 1)*(s^2/(2*r^2)) \text{Int}[1/\text{Sqrt}[a + b*x^6], x], x] - \text{Simp}[1/(2*r^2) \text{Int}[(\text{Sqrt}[3] - 1)*s^2 - 2*r^2*x^4]/\text{Sqrt}[a + b*x^6], x], x]] /; \text{FreeQ}[\{a, b\}, x]$
838. $\text{Int}[(x_)^2/\text{Sqrt}[(a_)+(b_)*(x_)^8], x_Symbol] :> \text{Simp}[1/(2*\text{Rt}[b/a, 4]) \text{Int}[(1 + \text{Rt}[b/a, 4]*x^2)/\text{Sqrt}[a + b*x^8], x], x] - \text{Simp}[1/(2*\text{Rt}[b/a, 4]) \text{Int}[(1 - \text{Rt}[b/a, 4]*x^2)/\text{Sqrt}[a + b*x^8], x], x] /; \text{FreeQ}[\{a, b\}, x]$
839. $\text{Int}[(x_)^2/((a_)+(b_)*(x_)^4)^{(1/4)}, x_Symbol] :> \text{Simp}[x^3/(2*(a + b*x^4)^{(1/4)}), x] - \text{Simp}[a/2 \text{Int}[x^2/(a + b*x^4)^{(5/4)}, x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PosQ}[b/a]$
840. $\text{Int}[(x_)^2/((a_)+(b_)*(x_)^4)^{(1/4)}, x_Symbol] :> \text{Simp}[(a + b*x^4)^{(3/4)}/(2*b*x), x] + \text{Simp}[a/(2*b) \text{Int}[1/(x^2*(a + b*x^4)^{(1/4)}), x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{NegQ}[b/a]$
841. $\text{Int}[1/((x_)^2*((a_)+(b_)*(x_)^4)^{(1/4)}), x_Symbol] :> -\text{Simp}[(x*(a + b*x^4)^{(1/4)})^{(-1)}, x] - \text{Simp}[b \text{Int}[x^2/(a + b*x^4)^{(5/4)}, x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PosQ}[b/a]$
842. $\text{Int}[1/((x_)^2*((a_)+(b_)*(x_)^4)^{(1/4)}), x_Symbol] :> \text{Simp}[x*((1 + a/(b*x^4))^{(1/4)})/(a + b*x^4)^{(1/4)} \text{Int}[1/(x^3*(1 + a/(b*x^4))^{(1/4)}), x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{NegQ}[b/a]$
843. $\text{Int}[(c_)*(x_)^{(m_)*((a_)+(b_)*(x_)^{(n_))}^{(p_)}, x_Symbol] :> \text{Simp}[c^{(n-1)}*(c*x)^{(m-n+1)}*((a + b*x^n)^{(p+1)})/(b*(m+n*p+1)), x] - \text{Simp}[a*c^n*(m-n+1)/(b*(m+n*p+1)) \text{Int}[(c*x)^{(m-n)}*(a + b*x^n)^p, x], x] /; \text{FreeQ}[\{a, b, c, p\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[m,$

$n - 1]$ && NeQ[m + n*p + 1, 0] && IntBinomialQ[a, b, c, n, m, p, x]

844. Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp
 [c^(n - 1)*(c*x)^(m - n + 1)*((a + b*x^n)^(p + 1)/(b*(m + n*p + 1))),
 x] - Simp[a*c^n*(m - n + 1)/(b*(m + n*p + 1)) Int[(c*x)^(m - n)*(a
 + b*x^n)^p, x], x] /; FreeQ[{a, b, c, m, p}, x] && IGtQ[n, 0] && SumS
 implerQ[m, -n] && NeQ[m + n*p + 1, 0] && ILtQ[Simplify[(m + 1)/n + p],
 0]

845. Int[((c_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)*
 (x_)^(n_))^(p_), x_Symbol] := Simp[c^(2*n - 1)*(c*x)^(m - 2*n + 1)*(a1
 + b1*x^n)^(p + 1)*((a2 + b2*x^n)^(p + 1)/(b1*b2*(m + 2*n*p + 1))), x]
 - Simp[a1*a2*c^(2*n)*(m - 2*n + 1)/(b1*b2*(m + 2*n*p + 1)) Int[(c
 *x)^(m - 2*n)*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /; FreeQ[{a1, b1
 , a2, b2, c, p}, x] && EqQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && GtQ[m,
 2*n - 1] && NeQ[m + 2*n*p + 1, 0] && IntBinomialQ[a1*a2, b1*b2, c, 2*
 n, m, p, x]

846. Int[((c_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)*
 (x_)^(n_))^(p_), x_Symbol] := Simp[c^(2*n - 1)*(c*x)^(m - 2*n + 1)*(a1
 + b1*x^n)^(p + 1)*((a2 + b2*x^n)^(p + 1)/(b1*b2*(m + 2*n*p + 1))), x]
 - Simp[a1*a2*c^(2*n)*(m - 2*n + 1)/(b1*b2*(m + 2*n*p + 1)) Int[(c
 *x)^(m - 2*n)*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /; FreeQ[{a1, b1
 , a2, b2, c, m, p}, x] && EqQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && Sum
 SimplerQ[m, -2*n] && NeQ[m + 2*n*p + 1, 0] && ILtQ[Simplify[(m + 1)/(2
 *n) + p], 0]

847. Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp
 [(c*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*c*(m + 1))), x] - Simp[b*(m +
 n*(p + 1) + 1)/(a*c^n*(m + 1)) Int[(c*x)^(m + n)*(a + b*x^n)^p, x],
 x] /; FreeQ[{a, b, c, p}, x] && IGtQ[n, 0] && LtQ[m, -1] && IntBinomi
 alQ[a, b, c, n, m, p, x]

848. Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp
 [(c*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*c*(m + 1))), x] - Simp[b*(m +
 n*(p + 1) + 1)/(a*c^n*(m + 1)) Int[(c*x)^(m + n)*(a + b*x^n)^p, x],
 x] /; FreeQ[{a, b, c, m, p}, x] && IGtQ[n, 0] && SumSimplerQ[m, n] &&

- ILtQ[Simplify[(m + 1)/n + p], 0]
849. Int[((c_.)*(x_))^(m_)*((a1_) + (b1_.)*(x_)^(n_))^(p_)*((a2_) + (b2_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[(c*x)^(m + 1)*(a1 + b1*x^n)^(p + 1)*((a2 + b2*x^n)^(p + 1)/(a1*a2*c*(m + 1))), x] - Simp[b1*b2*((m + 2*n*(p + 1) + 1)/(a1*a2*c^(2*n)*(m + 1))) Int[(c*x)^(m + 2*n)*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /; FreeQ[{a1, b1, a2, b2, c, p}, x] && EqQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && LtQ[m, -1] && IntBinomialQ[a1*a2, b1*b2, c, 2*n, m, p, x]
850. Int[((c_.)*(x_))^(m_)*((a1_) + (b1_.)*(x_)^(n_))^(p_)*((a2_) + (b2_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[(c*x)^(m + 1)*(a1 + b1*x^n)^(p + 1)*((a2 + b2*x^n)^(p + 1)/(a1*a2*c*(m + 1))), x] - Simp[b1*b2*((m + 2*n*(p + 1) + 1)/(a1*a2*c^(2*n)*(m + 1))) Int[(c*x)^(m + 2*n)*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /; FreeQ[{a1, b1, a2, b2, c, m, p}, x] && EqQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && SumSimplerQ[m, 2*n] && ILtQ[Simplify[(m + 1)/(2*n) + p], 0]
851. Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := With[{k = Denominator[m]}, Simp[k/c Subst[Int[x^(k*(m + 1) - 1)*(a + b*(x^(k*n)/c^n))^p, x], x, (c*x)^(1/k)], x]] /; FreeQ[{a, b, c, p}, x] && IGtQ[n, 0] && FractionQ[m] && IntBinomialQ[a, b, c, n, m, p, x]
852. Int[((c_.)*(x_))^(m_)*((a1_) + (b1_.)*(x_)^(n_))^(p_)*((a2_) + (b2_.)*(x_)^(n_))^(p_), x_Symbol] := With[{k = Denominator[m]}, Simp[k/c Subst[Int[x^(k*(m + 1) - 1)*(a1 + b1*(x^(k*n)/c^n))^p*(a2 + b2*(x^(k*n)/c^n))^p, x], x, (c*x)^(1/k)], x]] /; FreeQ[{a1, b1, a2, b2, c, p}, x] && EqQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && FractionQ[m] && IntBinomialQ[a1*a2, b1*b2, c, 2*n, m, p, x]
853. Int[(x_)/((a_) + (b_.)*(x_)^3)^(2/3), x_Symbol] := With[{q = Rt[b, 3]}, Simp[-ArcTan[(1 + 2*q*(x/(a + b*x^3)^(1/3)))/Sqrt[3]]/(Sqrt[3]*q^2), x] - Simp[Log[q*x - (a + b*x^3)^(1/3)]/(2*q^2), x]] /; FreeQ[{a, b}, x]
854. Int[(x_)^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^(p + (m + 1)/n) Subst[Int[x^m/(1 - b*x^n)^(p + (m + 1)/n + 1), x], x, x/

$(a + b*x^n)^{(1/n)}$, x] /; FreeQ[{a, b}, x] && IGtQ[n, 0] && LtQ[-1, p, 0] && NeQ[p, -2^(-1)] && IntegersQ[m, p + (m + 1)/n]

855. Int[(x_)^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(a1*a2)^(p + (m + 1)/(2*n)) Subst[Int[x^m/((1 - b1*x^n)^(p + (m + 1)/(2*n) + 1)*(1 - b2*x^n)^(p + (m + 1)/(2*n) + 1)), x], x, x/((a1 + b1*x^n)^(1/(2*n))*(a2 + b2*x^n)^(1/(2*n)))]], x] /; FreeQ[{a1, b1, a2, b2}, x] && EqQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && LtQ[-1, p, 0] && NeQ[p, -2^(-1)] && IntegersQ[m, p + (m + 1)/(2*n)]

856. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(a/(a + b*x^n))^(p + (m + 1)/n)*(a + b*x^n)^(p + (m + 1)/n) Subst[Int[x^m/(1 - b*x^n)^(p + (m + 1)/n + 1), x], x, x/(a + b*x^n)^(1/n)], x] /; FreeQ[{a, b}, x] && IGtQ[n, 0] && LtQ[-1, p, 0] && NeQ[p, -2^(-1)] && IntegerQ[m] && LtQ[Denominator[p + (m + 1)/n], Denominator[p]]

857. Int[(x_)^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(a1/(a1 + b1*x^n))^(p + (m + 1)/(2*n))*(a1 + b1*x^n)^(p + (m + 1)/(2*n))*(a2/(a2 + b2*x^n))^(p + (m + 1)/(2*n))*(a2 + b2*x^n)^(p + (m + 1)/(2*n)) Subst[Int[x^m/((1 - b1*x^n)^(p + (m + 1)/(2*n) + 1)*(1 - b2*x^n)^(p + (m + 1)/(2*n) + 1)), x], x, x/((a1 + b1*x^n)^(1/(2*n))*(a2 + b2*x^n)^(1/(2*n)))]], x] /; FreeQ[{a1, b1, a2, b2}, x] && EqQ[a2*b1 + a1*b2, 0] && IGtQ[2*n, 0] && LtQ[-1, p, 0] && NeQ[p, -2^(-1)] && IntegerQ[m] && LtQ[Denominator[p + (m + 1)/(2*n)], Denominator[p]]

858. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := -Subst[Int[(a + b/x^n)^p/x^(m + 2), x], x, 1/x] /; FreeQ[{a, b, p}, x] && ILtQ[n, 0] && IntegerQ[m]

859. Int[(x_)^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)*(x_)^(n_))^(p_), x_Symbol] := -Subst[Int[(a1 + b1/x^n)^p*(a2 + b2/x^n)^p/x^(m + 2)], x], x, 1/x] /; FreeQ[{a1, b1, a2, b2, p}, x] && EqQ[a2*b1 + a1*b2, 0] && ILtQ[2*n, 0] && IntegerQ[m]

860. `Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := With[{k = Denominator[m]}, Simp[-k/c Subst[Int[(a + b/(c^n*x^(k*n)))^p/x^(k*(m + 1) + 1), x], x, 1/(c*x)^(1/k)], x] /; FreeQ[{a, b, c, p}, x] && ILtQ[n, 0] && FractionQ[m]`
861. `Int[((c_.)*(x_))^(m_)*((a1_) + (b1_.)*(x_)^(n_))^(p_)*((a2_) + (b2_.)*(x_)^(n_))^(p_), x_Symbol] := With[{k = Denominator[m]}, Simp[-k/c Subst[Int[(a1 + b1/(c^n*x^(k*n)))^p*((a2 + b2/(c^n*x^(k*n)))^p/x^(k*(m + 1) + 1)), x], x, 1/(c*x)^(1/k)], x] /; FreeQ[{a1, b1, a2, b2, c, p}, x] && EqQ[a2*b1 + a1*b2, 0] && ILtQ[2*n, 0] && FractionQ[m]`
862. `Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[(-c^(-1))*(c*x)^(m + 1)*(1/x)^(m + 1) Subst[Int[(a + b/x^n)^p/x^(m + 2), x], x, 1/x], x] /; FreeQ[{a, b, c, m, p}, x] && ILtQ[n, 0] && !RationalQ[m]`
863. `Int[((c_.)*(x_))^(m_)*((a1_) + (b1_.)*(x_)^(n_))^(p_)*((a2_) + (b2_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[(-c^(-1))*(c*x)^(m + 1)*(1/x)^(m + 1) Subst[Int[(a1 + b1/x^n)^p*((a2 + b2/x^n)^p/x^(m + 2)), x], x, 1/x], x] /; FreeQ[{a1, b1, a2, b2, c, m, p}, x] && EqQ[a2*b1 + a1*b2, 0] && ILtQ[2*n, 0] && !RationalQ[m]`
864. `Int[(x_)^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := With[{k = Denominator[n]}, Simp[k Subst[Int[x^(k*(m + 1) - 1)*(a + b*x^(k*n))^p, x], x, x^(1/k)], x] /; FreeQ[{a, b, m, p}, x] && FractionQ[n]`
865. `Int[(x_)^(m_.)*((a1_) + (b1_.)*(x_)^(n_))^(p_)*((a2_) + (b2_.)*(x_)^(n_))^(p_), x_Symbol] := With[{k = Denominator[2*n]}, Simp[k Subst[Int[x^(k*(m + 1) - 1)*(a1 + b1*x^(k*n))^p*(a2 + b2*x^(k*n))^p, x], x, x^(1/k)], x] /; FreeQ[{a1, b1, a2, b2, m, p}, x] && EqQ[a2*b1 + a1*b2, 0] && FractionQ[2*n]`
866. `Int[((c_.)*(x_))^(m_)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, m, p}, x] && FractionQ[n]`

867. $\text{Int}[(c_*)(x_*)^{(m_*)}((a1_*) + (b1_*)(x_*)^{(n_*)})^{(p_*)}((a2_*) + (b2_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] := \text{Simp}[c^{\text{IntPart}[m]}((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /;$ $\text{FreeQ}[\{a1, b1, a2, b2, c, m, p\}, x] \ \&\& \ \text{EqQ}[a2*b1 + a1*b2, 0] \ \&\& \ \text{FractionQ}[2*n]$
868. $\text{Int}[(x_*)^{(m_*)}((a_*) + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] := \text{Simp}[1/(m + 1) \text{Subst}[\text{Int}[(a + b*x^{\text{Simplify}[n/(m + 1)])^p], x], x, x^{(m + 1)}], x] /;$ $\text{FreeQ}[\{a, b, m, n, p\}, x] \ \&\& \ \text{IntegerQ}[\text{Simplify}[n/(m + 1)]] \ \&\& \ !\text{IntegerQ}[n]$
869. $\text{Int}[(x_*)^{(m_*)}((a1_*) + (b1_*)(x_*)^{(n_*)})^{(p_*)}((a2_*) + (b2_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] := \text{Simp}[1/(m + 1) \text{Subst}[\text{Int}[(a1 + b1*x^{\text{Simplify}[n/(m + 1)])^p*(a2 + b2*x^{\text{Simplify}[n/(m + 1)])^p}, x], x, x^{(m + 1)}], x] /;$ $\text{FreeQ}[\{a1, b1, a2, b2, m, n, p\}, x] \ \&\& \ \text{EqQ}[a2*b1 + a1*b2, 0] \ \&\& \ \text{IntegerQ}[\text{Simplify}[2*(n/(m + 1))]] \ \&\& \ !\text{IntegerQ}[2*n]$
870. $\text{Int}[(c_*)(x_*)^{(m_*)}((a_*) + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] := \text{Simp}[c^{\text{IntPart}[m]}((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*x^n)^p, x], x] /;$ $\text{FreeQ}[\{a, b, c, m, n, p\}, x] \ \&\& \ \text{IntegerQ}[\text{Simplify}[n/(m + 1)]] \ \&\& \ !\text{IntegerQ}[n]$
871. $\text{Int}[(c_*)(x_*)^{(m_*)}((a1_*) + (b1_*)(x_*)^{(n_*)})^{(p_*)}((a2_*) + (b2_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] := \text{Simp}[c^{\text{IntPart}[m]}((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /;$ $\text{FreeQ}[\{a1, b1, a2, b2, c, m, n, p\}, x] \ \&\& \ \text{EqQ}[a2*b1 + a1*b2, 0] \ \&\& \ \text{IntegerQ}[\text{Simplify}[2*(n/(m + 1))]] \ \&\& \ !\text{IntegerQ}[2*n]$
872. $\text{Int}[(x_*)^{(m_*)}((a_*) + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] := \text{Simp}[x^{(m + 1)}*((a + b*x^n)^p/(m + 1)), x] - \text{Simp}[b*n*(p/(m + 1)) \text{Int}[x^{(m + n)}*(a + b*x^n)^{(p - 1)}, x], x] /;$ $\text{FreeQ}[\{a, b, m, n\}, x] \ \&\& \ \text{EqQ}[(m + 1)/n + p, 0] \ \&\& \ \text{GtQ}[p, 0]$
873. $\text{Int}[(x_*)^{(m_*)}((a1_*) + (b1_*)(x_*)^{(n_*)})^{(p_*)}((a2_*) + (b2_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] := \text{Simp}[x^{(m + 1)}*(a1 + b1*x^n)^p*((a2 + b2*x^n)^p/(m + 1)), x] - \text{Simp}[2*b1*b2*n*(p/(m + 1)) \text{Int}[x^{(m + 2*n)}*(a1 + b1*x^n)^{(p - 1)}*(a2 + b2*x^n)^{(p - 1)}, x], x] /;$ $\text{FreeQ}[\{a1, b1, a2, b2, m$

, n}, x] && EqQ[a2*b1 + a1*b2, 0] && EqQ[(m + 1)/(2*n) + p, 0] && GtQ[p, 0]

874. Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, m, n}, x] && EqQ[(m + 1)/n + p, 0] && GtQ[p, 0]

875. Int[((c_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)*(x_)^(n_))^(p_), x_Symbol] := Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a1 + b1*x^n)^p*(a2 + b2*x^n)^p, x], x] /; FreeQ[{a1, b1, a2, b2, c, m, n}, x] && EqQ[a2*b1 + a1*b2, 0] && EqQ[(m + 1)/(2*n) + p, 0] && GtQ[p, 0]

876. Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(c*x)^(m + 1)*((a + b*x^n)^p/(c*(m + n*p + 1))), x] + Simp[a*n*(p/(m + n*p + 1)) Int[(c*x)^m*(a + b*x^n)^(p - 1), x], x] /; FreeQ[{a, b, c, m, n}, x] && IntegerQ[p + Simplify[(m + 1)/n]] && GtQ[p, 0] && NeQ[m + n*p + 1, 0]

877. Int[((c_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(c*x)^(m + 1)*(a1 + b1*x^n)^p*((a2 + b2*x^n)^p/(c*(m + 2*n*p + 1))), x] + Simp[2*a1*a2*n*(p/(m + 2*n*p + 1)) Int[(c*x)^m*(a1 + b1*x^n)^(p - 1)*(a2 + b2*x^n)^(p - 1), x], x] /; FreeQ[{a1, b1, a2, b2, c, m, n}, x] && EqQ[a2*b1 + a1*b2, 0] && IntegerQ[p + Simplify[(m + 1)/(2*n)]] && GtQ[p, 0] && NeQ[m + 2*n*p + 1, 0]

878. Int[((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(-(c*x)^(m + 1))*((a + b*x^n)^(p + 1)/(a*c*n*(p + 1))), x] + Simp[(m + n*(p + 1) + 1)/(a*n*(p + 1)) Int[(c*x)^m*(a + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, c, m, n}, x] && IntegerQ[p + Simplify[(m + 1)/n]] && LtQ[p, -1]

879. Int[((c_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_) + (b2_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(-(c*x)^(m + 1))*((a1 + b1*x^n)^(p + 1))*((a2 + b2*x^n)^(p + 1))/(2*a1*a2*c*n*(p + 1)), x] + Simp[(m + 2*n

- $$\frac{(p+1)+1}{2a_1a_2n(p+1)} \text{Int}[(c*x)^m*(a_1+b_1*x^n)^{(p+1)}*(a_2+b_2*x^n)^{(p+1)}, x], x] /;$$

$$\text{FreeQ}\{a_1, b_1, a_2, b_2, c, m, n\}, x\} \&\amp; \text{EqQ}[a_2*b_1+a_1*b_2, 0] \&\amp; \text{IntegerQ}[p+\text{Simplify}[(m+1)/(2*n)]] \&\amp; \text{LtQ}[p, -1]$$
880. $\text{Int}[(x_)^{(m_)}*((a_) + (b_)*(x_)^{(n_)})^{(p_)}, x_Symbol] :> \text{With}[\{k = \text{Denominator}[p]\}, \text{Simp}[k*(a^{(p+\text{Simplify}[(m+1)/n])})/n \text{Subst}[\text{Int}[x^{(k*\text{Simplify}[(m+1)/n]-1)/(1-b*x^k)^{(p+\text{Simplify}[(m+1)/n]+1)}, x], x, x^{(n/k)}/(a+b*x^n)^{(1/k)}], x]] /;$ $\text{FreeQ}\{a, b, m, n, p\}, x\} \&\amp; \text{IntegerQ}[p+\text{Simplify}[(m+1)/n]] \&\amp; \text{LtQ}[-1, p, 0]$
881. $\text{Int}[(x_)^{(m_)}*((a1_) + (b1_)*(x_)^{(n_)})^{(p_)}*((a2_) + (b2_)*(x_)^{(n_)})^{(p_)}, x_Symbol] :> \text{With}[\{k = \text{Denominator}[p]\}, \text{Simp}[k*((a1*a2)^{(p+\text{Simplify}[(m+1)/(2*n)])})/(2*n) \text{Subst}[\text{Int}[x^{(k*\text{Simplify}[(m+1)/(2*n)]-1)/(1-b1*b2*x^k)^{(p+\text{Simplify}[(m+1)/(2*n)]+1)}, x], x, x^{(2*(n/k)}/((a1+b1*x^n)^{(1/k)}*(a2+b2*x^n)^{(1/k)}), x]] /;$ $\text{FreeQ}\{a1, b1, a2, b2, m, n, p\}, x\} \&\amp; \text{EqQ}[a2*b1+a1*b2, 0] \&\amp; \text{IntegerQ}[p+\text{Simplify}[(m+1)/(2*n)]] \&\amp; \text{LtQ}[-1, p, 0]$
882. $\text{Int}[(x_)^{(m_)}*((a_) + (b_)*(x_)^{(n_)})^{(p_)}, x_Symbol] :> \text{Simp}[a*\text{Simplify}[(m+1)/n+p]*x^m*(a+b*x^n)^p*((x^n/(a+b*x^n))^{p/(n*x*\text{Simplify}[m+n*p])}) \text{Subst}[\text{Int}[x^{((m+1)/n-1)/(1-b*x)^{(\text{Simplify}[(m+1)/n+p]+1)}, x], x, x^n/(a+b*x^n)], x] /;$ $\text{FreeQ}\{a, b, m, n, p\}, x\} \&\amp; \text{IntegerQ}[\text{Simplify}[(m+1)/n+p]]$
883. $\text{Int}[((c)*(x_))^{(m_)}*((a_) + (b_)*(x_)^{(n_)})^{(p_)}, x_Symbol] :> \text{Simp}[c*\text{IntPart}[m]*((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a+b*x^n)^p, x], x] /;$ $\text{FreeQ}\{a, b, c, m, n, p\}, x\} \&\amp; \text{IntegerQ}[\text{Simplify}[(m+1)/n+p]]$
884. $\text{Int}[((c)*(x_))^{(m_)}*((a1_) + (b1_)*(x_)^{(n_)})^{(p_)}*((a2_) + (b2_)*(x_)^{(n_)})^{(p_)}, x_Symbol] :> \text{Simp}[c*\text{IntPart}[m]*((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a_1+b_1*x^n)^p*(a_2+b_2*x^n)^p, x], x] /;$ $\text{FreeQ}\{a_1, b_1, a_2, b_2, c, m, n, p\}, x\} \&\amp; \text{EqQ}[a_2*b_1+a_1*b_2, 0] \&\amp; \text{IntegerQ}[p+\text{Simplify}[(m+1)/(2*n)]]$

885. $\text{Int}[(x_)^{(m_.)}/((a_) + (b_.)*(x_)^{(n_)}), x_Symbol] \rightarrow \text{With}\{\{mn = \text{Simplify}[m - n]\}, \text{Simp}[x^{(mn + 1)}/(b*(mn + 1)), x] - \text{Simp}[a/b \text{ Int}[x^{mn}/(a + b*x^n), x], x] \} /; \text{FreeQ}\{\{a, b, m, n\}, x\} \&\& \text{FractionQ}[\text{Simplify}[(m + 1)/n]] \&\& \text{SumSimplerQ}[m, -n]$
886. $\text{Int}[(x_)^{(m_.)}/((a_) + (b_.)*(x_)^{(n_)}), x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}/(a*(m + 1)), x] - \text{Simp}[b/a \text{ Int}[x^{\text{Simplify}[m + n]}/(a + b*x^n), x], x] /; \text{FreeQ}\{\{a, b, m, n\}, x\} \&\& \text{FractionQ}[\text{Simplify}[(m + 1)/n]] \&\& \text{SumSimplerQ}[m, n]$
887. $\text{Int}[(c_)*(x_)^{(m_.)}/((a_) + (b_.)*(x_)^{(n_)}), x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[m]}*((c*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{ Int}[x^m/(a + b*x^n), x], x] /; \text{FreeQ}\{\{a, b, c, m, n\}, x\} \&\& \text{FractionQ}[\text{Simplify}[(m + 1)/n]] \&\& (\text{SumSimplerQ}[m, n] \parallel \text{SumSimplerQ}[m, -n])$
888. $\text{Int}[(c_)*(x_)^{(m_.)}*((a_) + (b_.)*(x_)^{(n_)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[a^p*((c*x)^{(m + 1)}/(c*(m + 1)))*\text{Hypergeometric2F1}[-p, (m + 1)/n, (m + 1)/n + 1, (-b)*(x^n/a)], x] /; \text{FreeQ}\{\{a, b, c, m, n, p\}, x\} \&\& !\text{IGtQ}[p, 0] \&\& (\text{ILtQ}[p, 0] \parallel \text{GtQ}[a, 0])$
889. $\text{Int}[(c_)*(x_)^{(m_.)}*((a_) + (b_.)*(x_)^{(n_)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]}*((a + b*x^n)^{\text{FracPart}[p]}/(1 + b*(x^n/a))^{\text{FracPart}[p]}) \text{ Int}[(c*x)^m*(1 + b*(x^n/a))^p, x], x] /; \text{FreeQ}\{\{a, b, c, m, n, p\}, x\} \&\& !\text{IGtQ}[p, 0] \&\& !(\text{ILtQ}[p, 0] \parallel \text{GtQ}[a, 0])$
890. $\text{Int}[(c_)*(x_)^{(m_.)}*((a1_) + (b1_.)*(x_)^{(n_)})^{(p_.)}*((a2_) + (b2_.)*(x_)^{(n_)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a1 + b1*x^n)^{\text{FracPart}[p]}*((a2 + b2*x^n)^{\text{FracPart}[p]}/(a1*a2 + b1*b2*x^{(2*n)})^{\text{FracPart}[p]}) \text{ Int}[(c*x)^m*(a1*a2 + b1*b2*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{\{a1, b1, a2, b2, c, m, n, p\}, x\} \&\& \text{EqQ}[a2*b1 + a1*b2, 0] \&\& !\text{IntegerQ}[p]$
891. $\text{Int}[(d_)*(x_)^{(m_.)}*((a_) + (b_.)*((c_)*(x_)^{(n_)})^{(p_.)}), x_Symbol] \rightarrow \text{Simp}[1/c \text{ Subst}[\text{Int}[(d*(x/c))^m*(a + b*x^n)^p, x], x, c*x], x] /; \text{FreeQ}\{\{a, b, c, d, m, n, p\}, x\}$

892. $\text{Int}[(d \cdot x)^m \cdot (a + b \cdot (c \cdot x^q)^n)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} / (d \cdot (c \cdot x^q)^{1/q})^{m+1}] \text{Subst}[\text{Int}[x^m \cdot (a + b \cdot x^{n \cdot q})^p, x], x, (c \cdot x^q)^{1/q}, x] /;$ $\text{FreeQ}\{a, b, c, d, m, n, p, q, x\} \ \&\& \ \text{IntegerQ}[n \cdot q] \ \&\& \ \text{NeQ}[x, (c \cdot x^q)^{1/q}]$
893. $\text{Int}[(d \cdot x)^m \cdot (a + b \cdot (c \cdot x^q)^n)^p, x_{\text{Symbol}}] \rightarrow \text{With}\{k = \text{Denominator}[n]\}, \text{Subst}[\text{Int}[(d \cdot x)^m \cdot (a + b \cdot c^n \cdot x^{n \cdot q})^p, x], x^{1/k}, (c \cdot x^q)^{1/k} / (c^{1/k} \cdot (x^{1/k})^{q-1})] /;$ $\text{FreeQ}\{a, b, c, d, m, p, q, x\} \ \&\& \ \text{FractionQ}[n]$
894. $\text{Int}[(d \cdot x)^m \cdot (a + b \cdot (c \cdot x^q)^n)^p, x_{\text{Symbol}}] \rightarrow \text{Subst}[\text{Int}[(d \cdot x)^m \cdot (a + b \cdot c^n \cdot x^{n \cdot q})^p, x], x^{n \cdot q}, (c \cdot x^q)^n / c^n] /;$ $\text{FreeQ}\{a, b, c, d, m, n, p, q, x\} \ \&\& \ \text{!RationalQ}[n]$
895. $\text{Int}[u^m \cdot (a + b \cdot v^n)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[u^m / \text{Coefficient}[v, x, 1] \cdot v^m] \text{Subst}[\text{Int}[x^m \cdot (a + b \cdot x^n)^p, x], x, v], x] /;$ $\text{FreeQ}\{a, b, m, n, p, x\} \ \&\& \ \text{LinearPairQ}[u, v, x]$
896. $\text{Int}[(a + b \cdot v^n)^p \cdot x^m, x_{\text{Symbol}}] \rightarrow \text{With}\{c = \text{Coefficient}[v, x, 0], d = \text{Coefficient}[v, x, 1]\}, \text{Simp}[1/d^{m+1}] \text{Subst}[\text{Int}[\text{SimplifyIntegrand}[(x - c)^m \cdot (a + b \cdot x^n)^p, x], x], x, v], x] /;$ $\text{NeQ}[c, 0] /;$ $\text{FreeQ}\{a, b, n, p, x\} \ \&\& \ \text{LinearQ}[v, x] \ \&\& \ \text{IntegerQ}[m]$
897. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x] /;$ $\text{FreeQ}\{a, b, c, d, n, x\} \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IGtQ}[q, 0]$
898. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Int}[x^{n \cdot (p+q)} \cdot (b + a/x^n)^p \cdot (d + c/x^n)^q, x] /;$ $\text{FreeQ}\{a, b, c, d, n, x\} \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IntegersQ}[p, q] \ \&\& \ \text{NegQ}[n]$
899. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow -\text{Subst}[\text{Int}[(a + b/x^n)^p \cdot (c + d/x^n)^q / x^2, x], x, 1/x] /;$ $\text{FreeQ}\{a, b, c, d, p, q, x\} \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{ILtQ}[n, 0]$

900. $\text{Int}[\left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(p_{_})} \cdot \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})}, x_Symbol] \rightarrow \text{With}[\{g = \text{Denominator}[n]\}, \text{Simp}[g \text{ Subst}[\text{Int}[x^{(g-1)} \cdot (a + b \cdot x^{(g \cdot n)})^p \cdot (c + d \cdot x^{(g \cdot n)})^q, x], x, x^{(1/g)}], x]] /; \text{FreeQ}[\{a, b, c, d, p, q\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{FractionQ}[n]$
901. $\text{Int}[1/\left(\left((a_{_}) + (b_{_}) \cdot (x_{_})^3\right)^{(1/3)} \cdot \left((c_{_}) + (d_{_}) \cdot (x_{_})^3\right)\right), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(b \cdot c - a \cdot d)/c, 3]\}, \text{Simp}[\text{ArcTan}[(1 + (2 \cdot q \cdot x)/(a + b \cdot x^3))^{(1/3)})/\text{Sqrt}[3]]/(\text{Sqrt}[3] \cdot c \cdot q), x] + (-\text{Simp}[\text{Log}[q \cdot x - (a + b \cdot x^3)^{(1/3)}]/(2 \cdot c \cdot q), x] + \text{Simp}[\text{Log}[c + d \cdot x^3]/(6 \cdot c \cdot q), x])] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0]$
902. $\text{Int}[\left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(p_{_})} / \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})}\right), x_Symbol] \rightarrow \text{Subst}[\text{Int}[1/(c - (b \cdot c - a \cdot d) \cdot x^n), x], x, x/(a + b \cdot x^n)^{(1/n)}] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[n \cdot p + 1, 0] \ \&\& \ \text{IntegerQ}[n]$
903. $\text{Int}[\left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(p_{_})} \cdot \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[(-x) \cdot (a + b \cdot x^n)^{(p+1)} \cdot \left((c + d \cdot x^n)^q / (a \cdot n \cdot (p+1))\right), x] - \text{Simp}[c \cdot (q / (a \cdot (p+1))) \text{ Int}[(a + b \cdot x^n)^{(p+1)} \cdot (c + d \cdot x^n)^{(q-1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[n \cdot (p + q + 1) + 1, 0] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{NeQ}[p, -1]$
904. $\text{Int}[\left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(p_{_})} \cdot \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[a^p \cdot (x / (c^{(p+1)} \cdot (c + d \cdot x^n)^{(1/n)})) \cdot \text{Hypergeometric2F1}[1/n, -p, 1 + 1/n, -(b \cdot c - a \cdot d) \cdot (x^n / (a \cdot (c + d \cdot x^n)))]], x] /; \text{FreeQ}[\{a, b, c, d, n, q\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[n \cdot (p + q + 1) + 1, 0] \ \&\& \ \text{ILtQ}[p, 0]$
905. $\text{Int}[\left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(p_{_})} \cdot \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[x \cdot \left((a + b \cdot x^n)^p / (c \cdot (c \cdot (a + b \cdot x^n) / (a \cdot (c + d \cdot x^n))))\right)^p \cdot (c + d \cdot x^n)^{(1/n + p)} \cdot \text{Hypergeometric2F1}[1/n, -p, 1 + 1/n, -(b \cdot c - a \cdot d) \cdot (x^n / (a \cdot (c + d \cdot x^n)))]], x] /; \text{FreeQ}[\{a, b, c, d, n, p, q\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[n \cdot (p + q + 1) + 1, 0]$
906. $\text{Int}[\left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(p_{_})} \cdot \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[x \cdot (a + b \cdot x^n)^{(p+1)} \cdot \left((c + d \cdot x^n)^{(q+1)} / (a \cdot c)\right), x] /; \text{FreeQ}[\{a, b, c, d, n, p, q\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[n \cdot (p + q + 1) + 1, 0]$

- 2) + 1, 0] && EqQ[a*d*(p + 1) + b*c*(q + 1), 0]
907. Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] :> Simp[(-b)*x*(a + b*x^n)^(p + 1)*((c + d*x^n)^(q + 1)/(a*n*(p + 1)*(b*c - a*d))), x] + Simp[(b*c + n*(p + 1)*(b*c - a*d))/(a*n*(p + 1)*(b*c - a*d)) Int[(a + b*x^n)^(p + 1)*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, n, q}, x] && NeQ[b*c - a*d, 0] && EqQ[n*(p + q + 2) + 1, 0] && (LtQ[p, -1] || !LtQ[q, -1]) && NeQ[p, -1]
908. Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Simp[c*x*((a + b*x^n)^(p + 1)/a), x] /; FreeQ[{a, b, c, d, n, p}, x] && NeQ[b*c - a*d, 0] && EqQ[a*d - b*c*(n*(p + 1) + 1), 0]
909. Int[((a1_) + (b1_)*(x_)^(non2_))^(p_)*((a2_) + (b2_)*(x_)^(non2_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Simp[c*x*(a1 + b1*x^(n/2))^(p + 1)*((a2 + b2*x^(n/2))^(p + 1)/(a1*a2)), x] /; FreeQ[{a1, b1, a2, b2, c, d, n, p}, x] && EqQ[non2, n/2] && EqQ[a2*b1 + a1*b2, 0] && EqQ[a1*a2*d - b1*b2*c*(n*(p + 1) + 1), 0]
910. Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Simp[(-b*c - a*d)*x*((a + b*x^n)^(p + 1)/(a*b*n*(p + 1))), x] - Simp[(a*d - b*c*(n*(p + 1) + 1))/(a*b*n*(p + 1)) Int[(a + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, c, d, n, p}, x] && NeQ[b*c - a*d, 0] && (LtQ[p, -1] || ILtQ[1/n + p, 0])
911. Int[((a1_) + (b1_)*(x_)^(non2_))^(p_)*((a2_) + (b2_)*(x_)^(non2_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] :> Simp[(-b1*b2*c - a1*a2*d)*x*(a1 + b1*x^(n/2))^(p + 1)*((a2 + b2*x^(n/2))^(p + 1)/(a1*a2*b1*b2*n*(p + 1))), x] - Simp[(a1*a2*d - b1*b2*c*(n*(p + 1) + 1))/(a1*a2*b1*b2*n*(p + 1)) Int[(a1 + b1*x^(n/2))^(p + 1)*(a2 + b2*x^(n/2))^(p + 1), x], x] /; FreeQ[{a1, b1, a2, b2, c, d, n}, x] && EqQ[non2, n/2] && EqQ[a2*b1 + a1*b2, 0] && (LtQ[p, -1] || ILtQ[1/n + p, 0])
912. Int[((c_) + (d_)*(x_)^(n_))/((a_) + (b_)*(x_)^(n_)), x_Symbol] :> Simp[c*(x/a), x] - Simp[(b*c - a*d)/a Int[1/(b + a/x^n), x], x] /; FreeQ[{a, b, c, d, n}, x] && NeQ[b*c - a*d, 0] && LtQ[n, 0]

913. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n), x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot x \cdot (a + b \cdot x^n)^{p+1} / (b \cdot (n \cdot (p+1) + 1)), x] - \text{Simp}[(a \cdot d - b \cdot c \cdot (n \cdot (p+1) + 1)) / (b \cdot (n \cdot (p+1) + 1)) \text{Int}[(a + b \cdot x^n)^p, x], x] /;$ $\text{FreeQ}\{a, b, c, d, n, p\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{NeQ}[n \cdot (p+1) + 1, 0]$
914. $\text{Int}[(a_1 + b_1 \cdot x^{\text{non2}})^{p_1} \cdot (a_2 + b_2 \cdot x^{\text{non2}})^{p_2} \cdot (c + d \cdot x^n), x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot x \cdot (a_1 + b_1 \cdot x^{n/2})^{p_1+1} \cdot (a_2 + b_2 \cdot x^{n/2})^{p_2+1} / (b_1 \cdot b_2 \cdot (n \cdot (p_1+1) + 1)), x] - \text{Simp}[(a_1 \cdot a_2 \cdot d - b_1 \cdot b_2 \cdot c \cdot (n \cdot (p_1+1) + 1)) / (b_1 \cdot b_2 \cdot (n \cdot (p_1+1) + 1)) \text{Int}[(a_1 + b_1 \cdot x^{n/2})^{p_1} \cdot (a_2 + b_2 \cdot x^{n/2})^{p_2}, x], x] /;$ $\text{FreeQ}\{a_1, b_1, a_2, b_2, c, d, n, p\}, x \ \&\& \ \text{EqQ}[\text{non2}, n/2] \ \&\& \ \text{EqQ}[a_2 \cdot b_1 + a_1 \cdot b_2, 0] \ \&\& \ \text{NeQ}[n \cdot (p_1+1) + 1, 0]$
915. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{PolynomialDivide}[(a + b \cdot x^n)^p, (c + d \cdot x^n)^{-q}], x] /;$ $\text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{ILtQ}[q, 0] \ \&\& \ \text{GeQ}[p, -q]$
916. $\text{Int}[(a + b \cdot x^n)^p / (c + d \cdot x^n), x_{\text{Symbol}}] \rightarrow \text{Simp}[b/d \text{Int}[(a + b \cdot x^n)^{p-1}, x], x] - \text{Simp}[(b \cdot c - a \cdot d)/d \text{Int}[(a + b \cdot x^n)^{p-1} / (c + d \cdot x^n), x], x] /;$ $\text{FreeQ}\{a, b, c, d, p\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[n \cdot (p-1) + 1, 0] \ \&\& \ \text{IntegerQ}[n]$
917. $\text{Int}[1 / ((a + b \cdot x^n) \cdot (c + d \cdot x^n)), x_{\text{Symbol}}] \rightarrow \text{Simp}[b / (b \cdot c - a \cdot d) \text{Int}[1 / (a + b \cdot x^n), x], x] - \text{Simp}[d / (b \cdot c - a \cdot d) \text{Int}[1 / (c + d \cdot x^n), x], x] /;$ $\text{FreeQ}\{a, b, c, d, n\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0]$
918. $\text{Int}[(a + b \cdot x^2)^{2/3} / (c + d \cdot x^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[b/d \text{Int}[1 / (a + b \cdot x^2)^{1/3}, x], x] - \text{Simp}[(b \cdot c - a \cdot d)/d \text{Int}[1 / ((a + b \cdot x^2)^{1/3} \cdot (c + d \cdot x^2)), x], x] /;$ $\text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[b \cdot c + 3 \cdot a \cdot d, 0]$
919. $\text{Int}[(a + b \cdot x^2)^p / (c + d \cdot x^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[b/d \text{Int}[(a + b \cdot x^2)^{p-1}, x], x] - \text{Simp}[(b \cdot c - a \cdot d)/d \text{Int}[(a + b \cdot x^2)^{p-1} / (c + d \cdot x^2), x], x] /;$ $\text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{NeQ}$

- [b*c - a*d, 0] && GtQ[p, 0] && (EqQ[p, 1/2] || EqQ[Denominator[p], 4])
920. $\text{Int}[\sqrt{(a_+) + (b_+)(x_+)^4}/((c_+) + (d_+)(x_+)^4), x_Symbol] \rightarrow \text{Simp}[a/c \text{ Subst}[\text{Int}[1/(1 - 4*a*b*x^4), x], x, x/\sqrt{a + b*x^4}], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{PosQ}[a*b]$
921. $\text{Int}[\sqrt{(a_+) + (b_+)(x_+)^4}/((c_+) + (d_+)(x_+)^4), x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[(-a)*b, 4]\}, \text{Simp}[(a/(2*c*q))*\text{ArcTan}[q*x*((a + q^2*x^2)/(a*\text{Sqrt}[a + b*x^4]))], x] + \text{Simp}[(a/(2*c*q))*\text{ArcTanh}[q*x*((a - q^2*x^2)/(a*\text{Sqrt}[a + b*x^4]))], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{NegQ}[a*b]$
922. $\text{Int}[\sqrt{(a_+) + (b_+)(x_+)^4}/((c_+) + (d_+)(x_+)^4), x_Symbol] \rightarrow \text{Simp}[b/d \text{ Int}[1/\sqrt{a + b*x^4}, x], x] - \text{Simp}[(b*c - a*d)/d \text{ Int}[1/(\text{Sqrt}[a + b*x^4]*(c + d*x^4)), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
923. $\text{Int}[((a_+) + (b_+)(x_+)^4)^{1/4}/((c_+) + (d_+)(x_+)^4), x_Symbol] \rightarrow \text{Simp}[\sqrt{a + b*x^4}*\sqrt{a/(a + b*x^4)} \text{ Subst}[\text{Int}[1/(\text{Sqrt}[1 - b*x^4]*(c - (b*c - a*d)*x^4)), x], x, x/(a + b*x^4)^{1/4}], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
924. $\text{Int}[((a_+) + (b_+)(x_+)^4)^{5/4}/((c_+) + (d_+)(x_+)^4), x_Symbol] \rightarrow \text{Simp}[b/d \text{ Int}[(a + b*x^4)^{1/4}, x], x] - \text{Simp}[(b*c - a*d)/d \text{ Int}[(a + b*x^4)^{1/4}/(c + d*x^4), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
925. $\text{Int}[1/(\sqrt{(a_+) + (b_+)(x_+)^4}*((c_+) + (d_+)(x_+)^4)), x_Symbol] \rightarrow \text{Simp}[1/(2*c) \text{ Int}[1/(\sqrt{a + b*x^4}*(1 - \text{Rt}[-d/c, 2]*x^2)), x], x] + \text{Simp}[1/(2*c) \text{ Int}[1/(\sqrt{a + b*x^4}*(1 + \text{Rt}[-d/c, 2]*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
926. $\text{Int}[1/(((a_+) + (b_+)(x_+)^4)^{3/4}*((c_+) + (d_+)(x_+)^4)), x_Symbol] \rightarrow \text{Simp}[b/(b*c - a*d) \text{ Int}[1/(a + b*x^4)^{3/4}, x], x] - \text{Simp}[d/(b*c - a*d) \text{ Int}[(a + b*x^4)^{1/4}/(c + d*x^4), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$

927. `Int[((a_) + (b_)*(x_)^3)^(1/3)/((c_) + (d_)*(x_)^3), x_Symbol] := With[{q = Rt[b/a, 3]}, Simp[9*(a/(c*q)) Subst[Int[x/((4 - a*x^3)*(1 + 2*a*x^3)), x], x, (1 + q*x)/(a + b*x^3)^(1/3)], x] /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[b*c + a*d, 0]`
928. `Int[1/(((a_) + (b_)*(x_)^3)^(2/3)*((c_) + (d_)*(x_)^3)), x_Symbol] :> Simp[b/(b*c - a*d) Int[1/(a + b*x^3)^(2/3), x], x] - Simp[d/(b*c - a*d) Int[(a + b*x^3)^(1/3)/(c + d*x^3), x], x] /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[b*c + a*d, 0]`
929. `Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[(-x)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*n*(p + 1))), x] + Simp[1/(a*n*(p + 1)) Int[(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*Simp[c*(n*(p + 1) + 1) + d*(n*(p + q + 1) + 1)*x^n, x], x], x] /; FreeQ[{a, b, c, d, n}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && LtQ[0, q, 1] && IntBinomialQ[a, b, c, d, n, p, q, x]`
930. `Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[(a*d - c*b)*x*(a + b*x^n)^(p + 1)*((c + d*x^n)^(q - 1)/(a*b*n*(p + 1))), x] - Simp[1/(a*b*n*(p + 1)) Int[(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 2)*Simp[c*(a*d - c*b*(n*(p + 1) + 1)) + d*(a*d*(n*(q - 1) + 1) - b*c*(n*(p + q) + 1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, n}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && GtQ[q, 1] && IntBinomialQ[a, b, c, d, n, p, q, x]`
931. `Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[(-b)*x*(a + b*x^n)^(p + 1)*((c + d*x^n)^(q + 1)/(a*n*(p + 1)*(b*c - a*d))), x] + Simp[1/(a*n*(p + 1)*(b*c - a*d)) Int[(a + b*x^n)^(p + 1)*(c + d*x^n)^q*Simp[b*c + n*(p + 1)*(b*c - a*d) + d*b*(n*(p + q + 2) + 1)*x^n, x], x], x] /; FreeQ[{a, b, c, d, n, q}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && !(IntegerQ[p] && IntegerQ[q] && LtQ[q, -1]) && IntBinomialQ[a, b, c, d, n, p, q, x]`
932. `Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Int[ExpandIntegrand[(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && IntegerQ[p,`

q] && GtQ[p + q, 0]

933. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot x \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^{q-1} / (b \cdot (n \cdot (p+q) + 1))], x] + \text{Simp}[1 / (b \cdot (n \cdot (p+q) + 1)) \cdot \text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^{q-2} \cdot \text{Simp}[c \cdot (b \cdot c \cdot (n \cdot (p+q) + 1) - a \cdot d) + d \cdot (b \cdot c \cdot (n \cdot (p+2 \cdot q - 1) + 1) - a \cdot d \cdot (n \cdot (q-1) + 1)) \cdot x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{GtQ}[q, 1] \&\& \text{NeQ}[n \cdot (p+q) + 1, 0] \&\& !\text{IGtQ}[p, 1] \&\& \text{IntBinomialQ}[a, b, c, d, n, p, q, x]$
934. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q / (n \cdot (p+q) + 1), x] + \text{Simp}[n / (n \cdot (p+q) + 1) \cdot \text{Int}[(a + b \cdot x^n)^{p-1} \cdot (c + d \cdot x^n)^{q-1} \cdot \text{Simp}[a \cdot c \cdot (p+q) + (q \cdot (b \cdot c - a \cdot d) + a \cdot d \cdot (p+q)) \cdot x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[p, 0] \&\& \text{IntBinomialQ}[a, b, c, d, n, p, q, x]$
935. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x] /; \text{FreeQ}\{a, b, c, d, n, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{IGtQ}[p, 0]$
936. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[a^p \cdot c^q \cdot x \cdot \text{AppellF1}[1/n, -p, -q, 1 + 1/n, (-b) \cdot (x^n/a), (-d) \cdot (x^n/c)], x] /; \text{FreeQ}\{a, b, c, d, n, p, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{NeQ}[n, -1] \&\& (\text{IntegerQ}[p] \parallel \text{GtQ}[a, 0]) \&\& (\text{IntegerQ}[q] \parallel \text{GtQ}[c, 0])$
937. $\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[a^{\text{IntPart}[p]} \cdot (a + b \cdot x^n)^{\text{FracPart}[p]} / (1 + b \cdot (x^n/a))^{\text{FracPart}[p]} \cdot \text{Int}[(1 + b \cdot (x^n/a))^p \cdot (c + d \cdot x^n)^q, x], x] /; \text{FreeQ}\{a, b, c, d, n, p, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{NeQ}[n, -1] \&\& !(\text{IntegerQ}[p] \parallel \text{GtQ}[a, 0])$
938. $\text{Int}[(a + b \cdot u^n)^p \cdot (c + d \cdot u^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[1 / \text{Coefficient}[u, x, 1] \cdot \text{Subst}[\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x, u], x] /; \text{FreeQ}\{a, b, c, d, n, p, q\}, x] \&\& \text{LinearQ}$

[u, x] && NeQ[u, x]

939. Int[(u_)^(p_)*(v_)^(q_), x_Symbol] := Int[NormalizePseudoBinomial[u, x]^p*NormalizePseudoBinomial[v, x]^q, x] /; FreeQ[{p, q}, x] && PseudoBinomialPairQ[u, v, x]

940. Int[(u_)^(p_)*(v_)^(q_)*(x_)^(m_), x_Symbol] := Int[NormalizePseudoBinomial[x^(m/p)*u, x]^p*NormalizePseudoBinomial[v, x]^q, x] /; FreeQ[{p, q}, x] && IntegersQ[p, m/p] && PseudoBinomialPairQ[x^(m/p)*u, v, x]

941. Int[((c_) + (d_)*(x_)^(mn_))^(q_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Int[(a + b*x^n)^p*((d + c*x^n)^q/x^(n*q)), x] /; FreeQ[{a, b, c, d, n, p}, x] && EqQ[mn, -n] && IntegerQ[q] && (PosQ[n] || !IntegerQ[p])

942. Int[((c_) + (d_)*(x_)^(mn_))^(q_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[x^(n*FracPart[q])*((c + d/x^n)^FracPart[q]/(d + c*x^n)^FracPart[q]) Int[(a + b*x^n)^p*((d + c*x^n)^q/x^(n*q)), x], x] /; FreeQ[{a, b, c, d, n, p, q}, x] && EqQ[mn, -n] && !IntegerQ[q] && !IntegerQ[p]

943. Int[((e_)*(x_))^(m_)*((b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[e^m/(n*b^(Simplify[(m + 1)/n] - 1)) Subst[Int[(b*x)^(p + Simplify[(m + 1)/n] - 1)*(c + d*x)^q, x], x, x^n], x] /; FreeQ[{b, c, d, e, m, n, p, q}, x] && (IntegerQ[m] || GtQ[e, 0]) && IntegerQ[Simplify[(m + 1)/n]]

944. Int[((e_)*(x_))^(m_)*((b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[e^m*b^IntPart[p]*((b*x^n)^FracPart[p]/x^(n*FracPart[p])) Int[x^(m + n*p)*(c + d*x^n)^q, x], x] /; FreeQ[{b, c, d, e, m, n, p, q}, x] && (IntegerQ[m] || GtQ[e, 0]) && !IntegerQ[Simplify[(m + 1)/n]]

945. Int[((e_)*(x_))^(m_)*((b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[e^IntPart[m]*((e*x)^FracPart[m]/x^FracPart[m])

-) Int[x^m*(b*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{b, c, d, e, m, n, p, q}, x] && !IntegerQ[m]
946. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[1/n Subst[Int[(a + b*x)^p*(c + d*x)^q, x], x, x^n], x] /; FreeQ[{a, b, c, d, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && EqQ[m - n + 1, 0]
947. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Int[x^(m + n*(p + q))*(b + a/x^n)^p*(d + c/x^n)^q, x] /; FreeQ[{a, b, c, d, m, n}, x] && NeQ[b*c - a*d, 0] && IntegerQ[p, q] && NegQ[n]
948. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*x)^p*(c + d*x)^q, x], x, x^n], x] /; FreeQ[{a, b, c, d, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && IntegerQ[Simplify[(m + 1)/n]]
949. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Simp[e^IntPart[m]*((e*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && IntegerQ[Simplify[(m + 1)/n]]
950. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_), x_Symbol] := Int[ExpandIntegrand[(e*x)^m*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && IGtQ[p, 0] && IGtQ[q, 0]
951. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] := Simp[c*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*e*(m + 1))), x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && EqQ[a*d*(m + 1) - b*c*(m + n*(p + 1) + 1), 0] && NeQ[m, -1]
952. Int[((e_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(non2_))^(p_)*((a2_) + (b2_)*(x_)^(non2_))^(q_), x_Symbol] := Simp

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[c*(e*x)^(m + 1)*(a1 + b1*x^(n/2))^(p + 1)*((a2 + b2*x^(n/2))^(p + 1)/
(a1*a2*e*(m + 1))), x] /; FreeQ[{a1, b1, a2, b2, c, d, e, m, n, p}, x]
&& EqQ[non2, n/2] && EqQ[a2*b1 + a1*b2, 0] && EqQ[a1*a2*d*(m + 1) - b
1*b2*c*(m + n*(p + 1) + 1), 0] && NeQ[m, -1]
```

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953. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x
_)^(n_)), x_Symbol] := Simp[c*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*e*
(m + 1))), x] + Simp[d/e^n Int[(e*x)^(m + n)*(a + b*x^n)^p, x], x] /
; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && EqQ[m + n
*(p + 1) + 1, 0] && (IntegerQ[n] || GtQ[e, 0]) && ((GtQ[n, 0] && LtQ[m
, -1]) || (LtQ[n, 0] && GtQ[m + n, -1]))
```

```
954. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x
_)^(n_)), x_Symbol] := Simp[(b*c - a*d)*(e*x)^(m + 1)*((a + b*x^n)^(p
+ 1)/(a*b*e*(m + 1))), x] + Simp[d/b Int[(e*x)^m*(a + b*x^n)^(p + 1)
, x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] &&
EqQ[m + n*(p + 1) + 1, 0] && NeQ[m, -1]
```

```
955. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x
_)^(n_)), x_Symbol] := Simp[c*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*e*
(m + 1))), x] + Simp[(a*d*(m + 1) - b*c*(m + n*(p + 1) + 1))/(a*e^n*(m
+ 1)) Int[(e*x)^(m + n)*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, d,
e, p}, x] && NeQ[b*c - a*d, 0] && (IntegerQ[n] || GtQ[e, 0]) && ((GtQ
[n, 0] && LtQ[m, -1]) || (LtQ[n, 0] && GtQ[m + n, -1])) && !ILtQ[p, -
1]
```

```
956. Int[((e_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(non2_))^(p_)*((a2_) + (
b2_)*(x_)^(non2_))^(p_)*((c_) + (d_)*(x_)^(n_)), x_Symbol] := Simp
[c*(e*x)^(m + 1)*(a1 + b1*x^(n/2))^(p + 1)*((a2 + b2*x^(n/2))^(p + 1)/
(a1*a2*e*(m + 1))), x] + Simp[(a1*a2*d*(m + 1) - b1*b2*c*(m + n*(p + 1)
+ 1))/(a1*a2*e^n*(m + 1)) Int[(e*x)^(m + n)*(a1 + b1*x^(n/2))^p*(a
2 + b2*x^(n/2))^p, x], x] /; FreeQ[{a1, b1, a2, b2, c, d, e, p}, x] &&
EqQ[non2, n/2] && EqQ[a2*b1 + a1*b2, 0] && (IntegerQ[n] || GtQ[e, 0])
&& ((GtQ[n, 0] && LtQ[m, -1]) || (LtQ[n, 0] && GtQ[m + n, -1])) && !
ILtQ[p, -1]
```

957. $\text{Int}[(e \cdot x)^m \cdot ((a) + (b) \cdot x^n)^p \cdot ((c) + (d) \cdot x^n)^n, x_Symbol] \rightarrow \text{Simp}[(-b \cdot c - a \cdot d) \cdot (e \cdot x)^{m+1} \cdot ((a + b \cdot x^n)^{p+1}) / (a \cdot b \cdot e \cdot n \cdot (p+1)), x] - \text{Simp}[(a \cdot d \cdot (m+1) - b \cdot c \cdot (m + n \cdot (p+1) + 1)) / (a \cdot b \cdot n \cdot (p+1)) \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^{p+1}, x], x] /;$ FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[b*c - a*d, 0] && LtQ[p, -1] && (!IntegerQ[p + 1/2] && NeQ[p, -5/4]) || !RationalQ[m] || (IGtQ[n, 0] && ILtQ[p + 1/2, 0] && LeQ[-1, m, (-n)*(p + 1)])
958. $\text{Int}[(e \cdot x)^m \cdot ((a_1) + (b_1) \cdot x^{\text{non2}})^p \cdot ((a_2) + (b_2) \cdot x^{\text{non2}})^n, x_Symbol] \rightarrow \text{Simp}[(-b_1 \cdot b_2 \cdot c - a_1 \cdot a_2 \cdot d) \cdot (e \cdot x)^{m+1} \cdot (a_1 + b_1 \cdot x^{n/2})^{p+1} \cdot (a_2 + b_2 \cdot x^{n/2})^{p+1} / (a_1 \cdot a_2 \cdot b_1 \cdot b_2 \cdot e \cdot n \cdot (p+1)), x] - \text{Simp}[(a_1 \cdot a_2 \cdot d \cdot (m+1) - b_1 \cdot b_2 \cdot c \cdot (m + n \cdot (p+1) + 1)) / (a_1 \cdot a_2 \cdot b_1 \cdot b_2 \cdot n \cdot (p+1)) \text{Int}[(e \cdot x)^m \cdot (a_1 + b_1 \cdot x^{n/2})^{p+1} \cdot (a_2 + b_2 \cdot x^{n/2})^{p+1}, x], x] /;$ FreeQ[{a1, b1, a2, b2, c, d, e, m, n}, x] && EqQ[non2, n/2] && EqQ[a2*b1 + a1*b2, 0] && LtQ[p, -1] && ((!IntegerQ[p + 1/2] && NeQ[p, -5/4]) || !RationalQ[m] || (IGtQ[n, 0] && ILtQ[p + 1/2, 0] && LeQ[-1, m, (-n)*(p + 1)]))
959. $\text{Int}[(e \cdot x)^m \cdot ((a) + (b) \cdot x^n)^p \cdot ((c) + (d) \cdot x^n)^n, x_Symbol] \rightarrow \text{Simp}[d \cdot (e \cdot x)^{m+1} \cdot ((a + b \cdot x^n)^{p+1}) / (b \cdot e \cdot (m + n \cdot (p+1) + 1)), x] - \text{Simp}[(a \cdot d \cdot (m+1) - b \cdot c \cdot (m + n \cdot (p+1) + 1)) / (b \cdot (m + n \cdot (p+1) + 1)) \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p, x], x] /;$ FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && NeQ[m + n*(p + 1) + 1, 0]
960. $\text{Int}[(e \cdot x)^m \cdot ((a_1) + (b_1) \cdot x^{\text{non2}})^p \cdot ((a_2) + (b_2) \cdot x^{\text{non2}})^n, x_Symbol] \rightarrow \text{Simp}[d \cdot (e \cdot x)^{m+1} \cdot (a_1 + b_1 \cdot x^{n/2})^{p+1} \cdot (a_2 + b_2 \cdot x^{n/2})^{p+1} / (b_1 \cdot b_2 \cdot e \cdot (m + n \cdot (p+1) + 1)), x] - \text{Simp}[(a_1 \cdot a_2 \cdot d \cdot (m+1) - b_1 \cdot b_2 \cdot c \cdot (m + n \cdot (p+1) + 1)) / (b_1 \cdot b_2 \cdot (m + n \cdot (p+1) + 1)) \text{Int}[(e \cdot x)^m \cdot (a_1 + b_1 \cdot x^{n/2})^p \cdot (a_2 + b_2 \cdot x^{n/2})^p, x], x] /;$ FreeQ[{a1, b1, a2, b2, c, d, e, m, n, p}, x] && EqQ[non2, n/2] && EqQ[a2*b1 + a1*b2, 0] && NeQ[m + n*(p + 1) + 1, 0]
961. $\text{Int}[(e \cdot x)^m \cdot ((a) + (b) \cdot x^n)^p / ((c) + (d) \cdot x^n)^n, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p / (c$

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+ d*x^n)), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && NeQ[b*c - a*d, 0]
&& IGtQ[n, 0] && IGtQ[p, 0] && (IntegerQ[m] || IGtQ[2*(m + 1), 0] ||
!RationalQ[m])
```

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962. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)
^(n_))^2, x_Symbol] := Simp[c^2*(e*x)^(m + 1)*((a + b*x^n)^(p + 1)/(a*
e*(m + 1))), x] - Simp[1/(a*e^n*(m + 1)) Int[(e*x)^(m + n)*(a + b*x^
n)^p*Simp[b*c^2*n*(p + 1) + c*(b*c - 2*a*d)*(m + 1) - a*(m + 1)*d^2*x^
n, x], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && NeQ[b*c - a*d, 0] &&
IGtQ[n, 0] && LtQ[m, -1] && GtQ[n, 0]
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963. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)
^(n_))^2, x_Symbol] := Simp[(-b*c - a*d)^2*(e*x)^(m + 1)*((a + b*x^
n)^(p + 1)/(a*b^2*e*n*(p + 1))), x] + Simp[1/(a*b^2*n*(p + 1)) Int[(
e*x)^m*(a + b*x^n)^(p + 1)*Simp[(b*c - a*d)^2*(m + 1) + b^2*c^2*n*(p +
1) + a*b*d^2*n*(p + 1)*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, m, n},
x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && LtQ[p, -1]
```

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964. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)
^(n_))^2, x_Symbol] := Simp[d^2*(e*x)^(m + n + 1)*((a + b*x^n)^(p + 1)
)/(b*e^(n + 1)*(m + n*(p + 2) + 1))), x] + Simp[1/(b*(m + n*(p + 2) +
1)) Int[(e*x)^m*(a + b*x^n)^p*Simp[b*c^2*(m + n*(p + 2) + 1) - d*(a*
d*(m + n + 1) - 2*b*c*(m + n*(p + 2) + 1))*x^n, x], x], x] /; FreeQ[{a
, b, c, d, e, m, n, p}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && NeQ[m
+ n*(p + 2) + 1, 0]
```

```
965. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(
q_), x_Symbol] := With[{k = GCD[m + 1, n]}, Simp[1/k Subst[Int[x^((
m + 1)/k - 1)*(a + b*x^(n/k))^p*(c + d*x^(n/k))^q, x], x, x^k], x] /;
k != 1] /; FreeQ[{a, b, c, d, p, q}, x] && NeQ[b*c - a*d, 0] && IGtQ[n
, 0] && IntegerQ[m]
```

```
966. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)
^(n_))^(q_), x_Symbol] := With[{k = Denominator[m]}, Simp[k/e Subst[
Int[x^(k*(m + 1) - 1)*(a + b*(x^(k*n)/e^n))^p*(c + d*(x^(k*n)/e^n))^q,
x], x, (e*x)^(1/k)], x] /; FreeQ[{a, b, c, d, e, p, q}, x] && NeQ[b*c
- a*d, 0] && IGtQ[n, 0] && FractionQ[m] && IntegerQ[p]
```


967. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[e^{n-1} \cdot (e \cdot x)^{m-n+1} \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^q / (b \cdot n \cdot (p+1)), x] - \text{Simp}[e^n / (b \cdot n \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^{m-n} \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^{q-1} \cdot \text{Simp}[c \cdot (m-n+1) + d \cdot (m+n \cdot (q-1) + 1) \cdot x^n, x], x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{GtQ}[m-n+1, 0] \ \&\& \ \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
968. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c \cdot b - a \cdot d) \cdot (e \cdot x)^{m+1} \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^{q-1} / (a \cdot b \cdot e \cdot n \cdot (p+1)), x] + \text{Simp}[1 / (a \cdot b \cdot n \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^{q-2} \cdot \text{Simp}[c \cdot (c \cdot b \cdot n \cdot (p+1) + (c \cdot b - a \cdot d) \cdot (m+1)) + d \cdot (c \cdot b \cdot n \cdot (p+1) + (c \cdot b - a \cdot d) \cdot (m+n \cdot (q-1) + 1)) \cdot x^n, x], x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[q, 1] \ \&\& \ \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
969. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-e \cdot x)^{m+1} \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^q / (a \cdot e \cdot n \cdot (p+1)), x] + \text{Simp}[1 / (a \cdot n \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^{q-1} \cdot \text{Simp}[c \cdot (m+n \cdot (p+1) + 1) + d \cdot (m+n \cdot (p+q+1) + 1) \cdot x^n, x], x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{LtQ}[0, q, 1] \ \&\& \ \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
970. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-a) \cdot e^{2n-1} \cdot (e \cdot x)^{m-2n+1} \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^{q+1} / (b \cdot n \cdot (b \cdot c - a \cdot d) \cdot (p+1)), x] + \text{Simp}[e^{2n} / (b \cdot n \cdot (b \cdot c - a \cdot d) \cdot (p+1)) \cdot \text{Int}[(e \cdot x)^{m-2n} \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^q \cdot \text{Simp}[a \cdot c \cdot (m-2n+1) + (a \cdot d \cdot (m-n+n \cdot q+1) + b \cdot c \cdot n \cdot (p+1)) \cdot x^n, x], x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, q\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[m-n+1, n] \ \&\& \ \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
971. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[e^{n-1} \cdot (e \cdot x)^{m-n+1} \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}]$

```

)^(p + 1)*((c + d*x^n)^(q + 1)/(n*(b*c - a*d)*(p + 1))), x] - Simp[e^n
/(n*(b*c - a*d)*(p + 1)) Int[(e*x)^(m - n)*(a + b*x^n)^(p + 1)*(c +
d*x^n)^q*Simp[c*(m - n + 1) + d*(m + n*(p + q + 1) + 1)*x^n, x], x]
] /; FreeQ[{a, b, c, d, e, q}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] &
& LtQ[p, -1] && GeQ[n, m - n + 1] && GtQ[m - n + 1, 0] && IntBinomialQ
[a, b, c, d, e, m, n, p, q, x]

```

972. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b) \cdot (e \cdot x)^{m+1} \cdot (a + b \cdot x^n)^{p+1} \cdot ((c + d \cdot x^n)^{q+1} / (a \cdot e \cdot n \cdot (b \cdot c - a \cdot d) \cdot (p + 1))), x] + \text{Simp}[1 / (a \cdot n \cdot (b \cdot c - a \cdot d) \cdot (p + 1)) \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^q \cdot \text{Simp}[c \cdot b \cdot (m + 1) + n \cdot (b \cdot c - a \cdot d) \cdot (p + 1) + d \cdot b \cdot (m + n \cdot (p + q + 2) + 1) \cdot x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, m, q\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$

973. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e \cdot x)^{m+1} \cdot (a + b \cdot x^n)^p \cdot ((c + d \cdot x^n)^q / (e \cdot (m + 1))), x] - \text{Simp}[n / (e^n \cdot (m + 1)) \text{Int}[(e \cdot x)^{m+n} \cdot (a + b \cdot x^n)^{p-1} \cdot (c + d \cdot x^n)^{q-1} \cdot \text{Simp}[b \cdot c \cdot p + a \cdot d \cdot q + b \cdot d \cdot (p + q) \cdot x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[q, 0] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[p, 0] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$

974. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[c \cdot (e \cdot x)^{m+1} \cdot (a + b \cdot x^n)^{p+1} \cdot ((c + d \cdot x^n)^{q-1} / (a \cdot e \cdot (m + 1))), x] - \text{Simp}[1 / (a \cdot e^n \cdot (m + 1)) \text{Int}[(e \cdot x)^{m+n} \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^{q-2} \cdot \text{Simp}[c \cdot (c \cdot b - a \cdot d) \cdot (m + 1) + c \cdot n \cdot (b \cdot c \cdot (p + 1) + a \cdot d \cdot (q - 1)) + d \cdot ((c \cdot b - a \cdot d) \cdot (m + 1) + c \cdot b \cdot n \cdot (p + q)) \cdot x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[q, 1] \&\& \text{LtQ}[m, -1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$

975. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e \cdot x)^{m+1} \cdot (a + b \cdot x^n)^{p+1} \cdot ((c + d \cdot x^n)^q / (a \cdot e \cdot (m + 1))), x] - \text{Simp}[1 / (a \cdot e^n \cdot (m + 1)) \text{Int}[(e \cdot x)^{m+n} \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^{q-1} \cdot \text{Simp}[c \cdot b \cdot (m + 1) + n \cdot (b \cdot c \cdot (p + 1$

```
) + a*d*q) + d*(b*(m + 1) + b*n*(p + q + 1))*x^n, x], x], x] /; FreeQ[
{a, b, c, d, e, p}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && LtQ[0, q,
1] && LtQ[m, -1] && IntBinomialQ[a, b, c, d, e, m, n, p, q, x]
```

```
976. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_
)^(n_))^(q_), x_Symbol] := Simp[(e*x)^(m + 1)*(a + b*x^n)^p*((c + d*x^
n)^q/(e*(m + n*(p + q) + 1))), x] + Simp[n/(m + n*(p + q) + 1) Int[(
e*x)^m*(a + b*x^n)^(p - 1)*(c + d*x^n)^(q - 1)*Simp[a*c*(p + q) + (q*(
b*c - a*d) + a*d*(p + q))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, m},
x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && GtQ[q, 0] && GtQ[p, 0] && In
tBinomialQ[a, b, c, d, e, m, n, p, q, x]
```

```
977. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_
)^(n_))^(q_), x_Symbol] := Simp[d*(e*x)^(m + 1)*(a + b*x^n)^(p + 1)*((
c + d*x^n)^(q - 1)/(b*e*(m + n*(p + q) + 1))), x] + Simp[1/(b*(m + n*(
p + q) + 1)) Int[(e*x)^m*(a + b*x^n)^p*(c + d*x^n)^(q - 2)*Simp[c*((
c*b - a*d)*(m + 1) + c*b*n*(p + q)) + (d*(c*b - a*d)*(m + 1) + d*n*(q
- 1)*(b*c - a*d) + c*b*d*n*(p + q))*x^n, x], x], x] /; FreeQ[{a, b, c,
d, e, m, p}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && GtQ[q, 1] && In
tBinomialQ[a, b, c, d, e, m, n, p, q, x]
```

```
978. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_
)^(n_))^(q_), x_Symbol] := Simp[e^(n - 1)*(e*x)^(m - n + 1)*(a + b*x^n
)^(p + 1)*((c + d*x^n)^q/(b*(m + n*(p + q) + 1))), x] - Simp[e^n/(b*(m
+ n*(p + q) + 1)) Int[(e*x)^(m - n)*(a + b*x^n)^p*(c + d*x^n)^(q -
1)*Simp[a*c*(m - n + 1) + (a*d*(m - n + 1) - n*q*(b*c - a*d))*x^n, x],
x], x] /; FreeQ[{a, b, c, d, e, p}, x] && NeQ[b*c - a*d, 0] && IGtQ[n
, 0] && GtQ[q, 0] && GtQ[m - n + 1, 0] && IntBinomialQ[a, b, c, d, e,
m, n, p, q, x]
```

```
979. Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_
)^(n_))^(q_), x_Symbol] := Simp[e^(2*n - 1)*(e*x)^(m - 2*n + 1)*(a + b
*x^n)^(p + 1)*((c + d*x^n)^(q + 1)/(b*d*(m + n*(p + q) + 1))), x] - Si
mp[e^(2*n)/(b*d*(m + n*(p + q) + 1)) Int[(e*x)^(m - 2*n)*(a + b*x^n)
^p*(c + d*x^n)^q*Simp[a*c*(m - 2*n + 1) + (a*d*(m + n*(q - 1) + 1) + b
*c*(m + n*(p - 1) + 1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, p, q},
x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && GtQ[m - n + 1, n] && IntBin
```

omialQ[a, b, c, d, e, m, n, p, q, x]

980. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[(e \cdot x)^{m+1} \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^{q+1} / (a \cdot c \cdot e^{m+1}), x] - \text{Simp}[1 / (a \cdot c \cdot e^{m+1}) \text{Int}[(e \cdot x)^{m+n} \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot \text{Simp}[(b \cdot c + a \cdot d) \cdot (m + n + 1) + n \cdot (b \cdot c \cdot p + a \cdot d \cdot q) + b \cdot d \cdot (m + n \cdot (p + q + 2) + 1) \cdot x^n, x], x], x] /;$
 FreeQ[{a, b, c, d, e, p, q}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && LtQ[m, -1] && IntBinomialQ[a, b, c, d, e, m, n, p, q, x]
981. $\text{Int}[(e \cdot x)^m / ((a + b \cdot x^n) \cdot (c + d \cdot x^n)), x_Symbol] \rightarrow \text{Simp}[(-a) \cdot (e^n / (b \cdot c - a \cdot d)) \text{Int}[(e \cdot x)^{m-n} / (a + b \cdot x^n), x], x] + \text{Simp}[c \cdot (e^n / (b \cdot c - a \cdot d)) \text{Int}[(e \cdot x)^{m-n} / (c + d \cdot x^n), x], x] /;$
 FreeQ[{a, b, c, d, e, m}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && LeQ[n, m, 2*n - 1]
982. $\text{Int}[(e \cdot x)^m / ((a + b \cdot x^n) \cdot (c + d \cdot x^n)), x_Symbol] \rightarrow \text{Simp}[b / (b \cdot c - a \cdot d) \text{Int}[(e \cdot x)^m / (a + b \cdot x^n), x], x] - \text{Simp}[d / (b \cdot c - a \cdot d) \text{Int}[(e \cdot x)^m / (c + d \cdot x^n), x], x] /;$
 FreeQ[{a, b, c, d, e, m}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0]
983. $\text{Int}[(e \cdot x)^m \cdot (c + d \cdot x^n)^q / ((a + b \cdot x^n)^p), x_Symbol] \rightarrow \text{Simp}[e^n / b \text{Int}[(e \cdot x)^{m-n} \cdot (c + d \cdot x^n)^q, x], x] - \text{Simp}[a \cdot (e^n / b) \text{Int}[(e \cdot x)^{m-n} \cdot (c + d \cdot x^n)^q / (a + b \cdot x^n), x], x] /;$
 FreeQ[{a, b, c, d, e, m, q}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && LeQ[n, m, 2*n - 1] && IntBinomialQ[a, b, c, d, e, m, n, -1, q, x]
984. $\text{Int}[(x \cdot (a + b \cdot x^n)^p) / (c + d \cdot x^n), x_Symbol] \rightarrow \text{Simp}[b/d \text{Int}[x \cdot (a + b \cdot x^n)^{p-1}, x], x] - \text{Simp}[(b \cdot c - a \cdot d) / d \text{Int}[x \cdot (a + b \cdot x^n)^{p-1} / (c + d \cdot x^n), x], x] /;$
 FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && GtQ[p, 0] && IntBinomialQ[a, b, c, d, 1, 1, n, p, -1, x]
985. $\text{Int}[(x \cdot (a + b \cdot x^n)^p) / (c + d \cdot x^n), x_Symbol] \rightarrow \text{Simp}[b / (b \cdot c - a \cdot d) \text{Int}[x \cdot (a + b \cdot x^n)^{p-1}, x], x] - \text{Simp}[d / (b \cdot c - a \cdot d) \text{Int}[x \cdot (a + b \cdot x^n)^{p+1} / (c + d \cdot x^n), x], x] /;$

```
reeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && IGtQ[n, 0] && LtQ[p, -1]
&& IntBinomialQ[a, b, c, d, 1, 1, n, p, -1, x]
```

```
986. Int[(x_)/(((a_) + (b_.)*(x_)^3)*Sqrt[(c_) + (d_.)*(x_)^3]), x_Symbol]
:> With[{q = Rt[d/c, 3]}, Simp[q*(ArcTanh[Sqrt[c + d*x^3]/Rt[c, 2]]/(9
*2^(2/3)*b*Rt[c, 2])), x] + (-Simp[q*(ArcTanh[Rt[c, 2]*((1 - 2^(1/3)*q
*x)/Sqrt[c + d*x^3]))/(3*2^(2/3)*b*Rt[c, 2])), x] + Simp[q*(ArcTan[Sqr
t[c + d*x^3]/(Sqrt[3]*Rt[c, 2])]/(3*2^(2/3)*Sqrt[3]*b*Rt[c, 2])), x] -
Simp[q*(ArcTan[Sqrt[3]*Rt[c, 2]*((1 + 2^(1/3)*q*x)/Sqrt[c + d*x^3]))/
(3*2^(2/3)*Sqrt[3]*b*Rt[c, 2])), x]] /; FreeQ[{a, b, c, d}, x] && NeQ
[b*c - a*d, 0] && EqQ[4*b*c - a*d, 0] && PosQ[c]
```

```
987. Int[(x_)/(((a_) + (b_.)*(x_)^3)*Sqrt[(c_) + (d_.)*(x_)^3]), x_Symbol]
:> With[{q = Rt[d/c, 3]}, Simp[(-q)*(ArcTan[Sqrt[c + d*x^3]/Rt[-c, 2]]
/(9*2^(2/3)*b*Rt[-c, 2])), x] + (-Simp[q*(ArcTan[Rt[-c, 2]*((1 - 2^(1/
3)*q*x)/Sqrt[c + d*x^3]))/(3*2^(2/3)*b*Rt[-c, 2])), x] - Simp[q*(ArcTa
nh[Sqrt[c + d*x^3]/(Sqrt[3]*Rt[-c, 2])]/(3*2^(2/3)*Sqrt[3]*b*Rt[-c, 2]
)), x] - Simp[q*(ArcTanh[Sqrt[3]*Rt[-c, 2]*((1 + 2^(1/3)*q*x)/Sqrt[c +
d*x^3]))/(3*2^(2/3)*Sqrt[3]*b*Rt[-c, 2])), x]] /; FreeQ[{a, b, c, d}
, x] && NeQ[b*c - a*d, 0] && EqQ[4*b*c - a*d, 0] && NegQ[c]
```

```
988. Int[(x_)/(((a_) + (b_.)*(x_)^3)*Sqrt[(c_) + (d_.)*(x_)^3]), x_Symbol]
:> With[{q = Rt[d/c, 3]}, Simp[d*(q/(4*b)) Int[x^2/((8*c - d*x^3)*Sq
rt[c + d*x^3]), x], x] + (-Simp[q^2/(12*b) Int[(1 + q*x)/((2 - q*x)*
Sqrt[c + d*x^3]), x], x] + Simp[1/(12*b*c) Int[(2*c*q^2 - 2*d*x - d
q*x^2)/((4 + 2*q*x + q^2*x^2)*Sqrt[c + d*x^3]), x], x]] /; FreeQ[{a,
b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[8*b*c + a*d, 0]
```

```
989. Int[(x_)/(Sqrt[(a_) + (b_.)*(x_)^3]*((c_) + (d_.)*(x_)^3)), x_Symbol]
:> With[{q = Rt[b/a, 3], r = Simplify[(b*c - 10*a*d)/(6*a*d)]}, Simp[(
-q)*(2 - r)*(ArcTan[(1 - r)*(Sqrt[a + b*x^3]/(Sqrt[2]*Rt[a, 2]*r^(3/2)
))]/(3*Sqrt[2]*Rt[a, 2]*d*r^(3/2))), x] + (-Simp[q*(2 - r)*(ArcTan[Rt[
a, 2]*Sqrt[r]*(1 + r)*((1 + q*x)/(Sqrt[2]*Sqrt[a + b*x^3]))]/(2*Sqrt[2]
]*Rt[a, 2]*d*r^(3/2))), x] - Simp[q*(2 - r)*(ArcTanh[Rt[a, 2]*Sqrt[r]*
((1 + r - 2*q*x)/(Sqrt[2]*Sqrt[a + b*x^3]))]/(3*Sqrt[2]*Rt[a, 2]*d*Sqr
t[r])), x] - Simp[q*(2 - r)*(ArcTanh[Rt[a, 2]*(1 - r)*Sqrt[r]*((1 + q*
x)/(Sqrt[2]*Sqrt[a + b*x^3]))]/(6*Sqrt[2]*Rt[a, 2]*d*Sqrt[r])), x]] /
```

```
; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[b^2*c^2 - 20*a*b*
c*d - 8*a^2*d^2, 0] && PosQ[a]
```

```
990. Int[(x_)/(Sqrt[(a_) + (b_.)*(x_)^3]*((c_) + (d_.)*(x_)^3)), x_Symbol]
:> With[{q = Rt[b/a, 3], r = Simplify[(b*c - 10*a*d)/(6*a*d)]}, Simp[q
*(2 - r)*(ArcTanh[(1 - r)*(Sqrt[a + b*x^3]/(Sqrt[2]*Rt[-a, 2]*r^(3/2))
)]/(3*Sqrt[2]*Rt[-a, 2]*d*r^(3/2))), x] + (-Simp[q*(2 - r)*(ArcTanh[Rt
[-a, 2]*Sqrt[r]*(1 + r)*((1 + q*x)/(Sqrt[2]*Sqrt[a + b*x^3]))]/(2*Sqrt
[2]*Rt[-a, 2]*d*r^(3/2))), x] - Simp[q*(2 - r)*(ArcTan[Rt[-a, 2]*Sqrt[
r]*((1 + r - 2*q*x)/(Sqrt[2]*Sqrt[a + b*x^3]))]/(3*Sqrt[2]*Rt[-a, 2]*d
*Sqrt[r])), x] - Simp[q*(2 - r)*(ArcTan[Rt[-a, 2]*(1 - r)*Sqrt[r]*((1
+ q*x)/(Sqrt[2]*Sqrt[a + b*x^3]))]/(6*Sqrt[2]*Rt[-a, 2]*d*Sqrt[r])), x
]]) /; FreeQ[{a, b, c, d}, x] && NeQ[b*c - a*d, 0] && EqQ[b^2*c^2 - 20
*a*b*c*d - 8*a^2*d^2, 0] && NegQ[a]
```

```
991. Int[(x_/(((a_) + (b_.)*(x_)^3)^(1/3)*((c_) + (d_.)*(x_)^3)), x_Symbol
] :> With[{q = Rt[b/a, 3]}, Simp[-q^2/(3*d) Int[1/((1 - q*x)*(a + b*
x^3)^(1/3)), x], x] + Simp[q/d Subst[Int[1/(1 + 2*a*x^3), x], x, (1
+ q*x)/(a + b*x^3)^(1/3)], x]] /; FreeQ[{a, b, c, d}, x] && NeQ[b*c -
a*d, 0] && EqQ[b*c + a*d, 0]
```

```
992. Int[(x_/(((a_) + (b_.)*(x_)^3)^(2/3)*((c_) + (d_.)*(x_)^3)), x_Symbol
] :> With[{q = Rt[(b*c - a*d)/c, 3]}, Simp[-ArcTan[(1 + (2*q*x)/(a + b
*x^3)^(1/3))/Sqrt[3]]/(Sqrt[3]*c*q^2), x] + (-Simp[Log[q*x - (a + b*x^
3)^(1/3)]/(2*c*q^2), x] + Simp[Log[c + d*x^3]/(6*c*q^2), x])]] /; FreeQ
[{a, b, c, d}, x] && NeQ[b*c - a*d, 0]
```

```
993. Int[(x_)^2/(((a_) + (b_.)*(x_)^4)*Sqrt[(c_) + (d_.)*(x_)^4]), x_Symbol
] :> With[{r = Numerator[Rt[-a/b, 2]], s = Denominator[Rt[-a/b, 2]]},
Simp[s/(2*b) Int[1/((r + s*x^2)*Sqrt[c + d*x^4]), x], x] - Simp[s/(2
*b) Int[1/((r - s*x^2)*Sqrt[c + d*x^4]), x], x]] /; FreeQ[{a, b, c,
d}, x] && NeQ[b*c - a*d, 0]
```

```
994. Int[((x_)^2*Sqrt[(c_) + (d_.)*(x_)^4])/((a_) + (b_.)*(x_)^4), x_Symbol
] :> Simp[d/b Int[x^2/Sqrt[c + d*x^4], x], x] + Simp[(b*c - a*d)/b
Int[x^2/((a + b*x^4)*Sqrt[c + d*x^4]), x], x]] /; FreeQ[{a, b, c, d},
x] && NeQ[b*c - a*d, 0]
```

995. $\text{Int}[(x_)^4/(\text{Sqrt}[(a_)+(b_)*(x_)^4]*\text{Sqrt}[(c_)+(d_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[\text{Sqrt}[a + b*x^4]/\text{Sqrt}[c + d*x^4], x], x] - \text{Simp}[a/b \text{ Int}[1/(\text{Sqrt}[a + b*x^4]*\text{Sqrt}[c + d*x^4]), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
996. $\text{Int}[(x_)^{(m_)}*((a_)+(b_)*(x_)^{(n_)})^{(p_)}*((c_)+(d_)*(x_)^{(n_)})^{(q_)}, x_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[p]\}, \text{Simp}[k*(a^{(p + (m + 1)/n)})/n \text{ Subst}[\text{Int}[x^{(k*((m + 1)/n) - 1)}*((c - (b*c - a*d)*x^k)^q/(1 - b*x^k)^{(p + q + (m + 1)/n + 1))}, x], x, x^{(n/k)}/(a + b*x^n)^{(1/k)}], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{RationalQ}[m, p] \&\& \text{IntegerQ}[p + (m + 1)/n, q] \&\& \text{LtQ}[-1, p, 0]$
997. $\text{Int}[(x_)^{(m_)}*((a_)+(b_)*(x_)^{(n_)})^{(p_)}*((c_)+(d_)*(x_)^{(n_)})^{(q_)}, x_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b/x^n)^p*(c + d/x^n)^q/x^{(m + 2)}], x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d, p, q\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IntegerQ}[m] \&\& \text{LtQ}[n, 0]$
998. $\text{Int}[(e_)*(x_)^{(m_)}*((a_)+(b_)*(x_)^{(n_)})^{(p_)}*((c_)+(d_)*(x_)^{(n_)})^{(q_)}, x_Symbol] \rightarrow \text{With}[\{g = \text{Denominator}[m]\}, \text{Simp}[-g/e \text{ Subst}[\text{Int}[(a + b/(e^n*x^{(g*n)}))^p*(c + d/(e^n*x^{(g*n)}))^q/x^{(g*(m + 1) + 1)}], x], x, 1/(e*x)^{(1/g)}], x] /; \text{FreeQ}[\{a, b, c, d, e, p, q\}, x] \&\& \text{IntegerQ}[m] \&\& \text{LtQ}[n, 0] \&\& \text{FractionQ}[m]$
999. $\text{Int}[(e_)*(x_)^{(m_)}*((a_)+(b_)*(x_)^{(n_)})^{(p_)}*((c_)+(d_)*(x_)^{(n_)})^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(-e*x)^m*(x^{(-1)})^m \text{ Subst}[\text{Int}[(a + b/x^n)^p*(c + d/x^n)^q/x^{(m + 2)}], x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, p, q\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{!RationalQ}[m]$
1000. $\text{Int}[(x_)^{(m_)}*((a_)+(b_)*(x_)^{(n_)})^{(p_)}*((c_)+(d_)*(x_)^{(n_)})^{(q_)}, x_Symbol] \rightarrow \text{With}[\{g = \text{Denominator}[n]\}, \text{Simp}[g \text{ Subst}[\text{Int}[x^{(g*(m + 1) - 1)}*(a + b*x^{(g*n)})^p*(c + d*x^{(g*n)})^q], x], x, x^{(1/g)}], x] /; \text{FreeQ}[\{a, b, c, d, m, p, q\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{FractionQ}[n]$

1001. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]} \cdot (e \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]} \cdot \text{Int}[x^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, m, p, q\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{FractionQ}[n]$
1002. $\text{Int}[(x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[1/(m + 1) \cdot \text{Subst}[\text{Int}[(a + b \cdot x^{\text{Simplify}[n/(m + 1)]})^p \cdot (c + d \cdot x^{\text{Simplify}[n/(m + 1)]})^q, x], x, x^{(m + 1)}], x] /;$ $\text{FreeQ}\{a, b, c, d, m, n, p, q\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IntegerQ}[\text{Simplify}[n/(m + 1)]] \ \&\& \ !\text{IntegerQ}[n]$
1003. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]} \cdot (e \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]} \cdot \text{Int}[x^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IntegerQ}[\text{Simplify}[n/(m + 1)]] \ \&\& \ !\text{IntegerQ}[n]$
1004. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[(-c \cdot b - a \cdot d) \cdot (e \cdot x)^{m + 1} \cdot (a + b \cdot x^n)^{p + 1} \cdot (c + d \cdot x^n)^{q - 1} / (a \cdot b \cdot e \cdot n \cdot (p + 1)), x] + \text{Simp}[1/(a \cdot b \cdot n \cdot (p + 1)) \cdot \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^{p + 1} \cdot (c + d \cdot x^n)^{q - 2} \cdot \text{Simp}[c \cdot (c \cdot b \cdot n \cdot (p + 1) + (c \cdot b - a \cdot d) \cdot (m + 1)) + d \cdot (c \cdot b \cdot n \cdot (p + 1) + (c \cdot b - a \cdot d) \cdot (m + n \cdot (q - 1) + 1)) \cdot x^n, x], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, m, n\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[q, 1] \ \&\& \ \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
1005. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[(-e \cdot x)^{m + 1} \cdot (a + b \cdot x^n)^{p + 1} \cdot (c + d \cdot x^n)^q / (a \cdot e \cdot n \cdot (p + 1)), x] + \text{Simp}[1/(a \cdot n \cdot (p + 1)) \cdot \text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^{p + 1} \cdot (c + d \cdot x^n)^{q - 1} \cdot \text{Simp}[c \cdot (m + n \cdot (p + 1) + 1) + d \cdot (m + n \cdot (p + q + 1) + 1) \cdot x^n, x], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, m, n\}, x \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{LtQ}[0, q, 1] \ \&\& \ \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
1006. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[(-b) \cdot (e \cdot x)^{m + 1} \cdot (a + b \cdot x^n)^{p + 1} \cdot (c + d \cdot x^n)^{q + 1} / (a \cdot e \cdot n \cdot (b \cdot c - a \cdot d) \cdot (p + 1)), x] + \text{Simp}[1/(a \cdot n \cdot ($

- $b*c - a*d)*(p + 1)) \quad \text{Int}[(e*x)^m*(a + b*x^n)^{(p + 1)}*(c + d*x^n)^q \text{Simp}[c*b*(m + 1) + n*(b*c - a*d)*(p + 1) + d*b*(m + n*(p + q + 2) + 1)*x^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, q\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
1007. $\text{Int}[(e_.)*(x_.))^{(m_.)*((a_.) + (b_.)*(x_.)^{(n_.))}^{(p_.)*((c_.) + (d_.)*(x_.)^{(n_.))}^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[(e*x)^{(m + 1)}*(a + b*x^n)^p*((c + d*x^n)^q/(e*(m + n*(p + q) + 1))), x] + \text{Simp}[n/(m + n*(p + q) + 1) \quad \text{Int}[(e*x)^m*(a + b*x^n)^{(p - 1)}*(c + d*x^n)^{(q - 1)}*\text{Simp}[a*c*(p + q) + (q*(b*c - a*d) + a*d*(p + q))*x^n, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[p, 0] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
1008. $\text{Int}[(e_.)*(x_.))^{(m_.)*((a_.) + (b_.)*(x_.)^{(n_.))}^{(p_.)*((c_.) + (d_.)*(x_.)^{(n_.))}^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[d*(e*x)^{(m + 1)}*(a + b*x^n)^{(p + 1)}*((c + d*x^n)^{(q - 1)}/(b*e*(m + n*(p + q) + 1))), x] + \text{Simp}[1/(b*(m + n*(p + q) + 1)) \quad \text{Int}[(e*x)^m*(a + b*x^n)^p*(c + d*x^n)^{(q - 2)}*\text{Simp}[c*((c*b - a*d)*(m + 1) + c*b*n*(p + q)) + (d*(c*b - a*d)*(m + 1) + d*n*(q - 1)*(b*c - a*d) + c*b*d*n*(p + q))*x^n, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{GtQ}[q, 1] \&\& \text{IntBinomialQ}[a, b, c, d, e, m, n, p, q, x]$
1009. $\text{Int}[(x_.)^{(m_.)/(((a_.) + (b_.)*(x_.)^{(n_.))}*(c_.) + (d_.)*(x_.)^{(n_.))}), x_Symbol] \rightarrow \text{Simp}[-a/(b*c - a*d) \quad \text{Int}[x^{(m - n)}/(a + b*x^n), x], x] + \text{Simp}[c/(b*c - a*d) \quad \text{Int}[x^{(m - n)}/(c + d*x^n), x], x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& (\text{EqQ}[m, n] \parallel \text{EqQ}[m, 2*n - 1])$
1010. $\text{Int}[(e_.)*(x_.))^{(m_.)/(((a_.) + (b_.)*(x_.)^{(n_.))}*(c_.) + (d_.)*(x_.)^{(n_.))}), x_Symbol] \rightarrow \text{Simp}[b/(b*c - a*d) \quad \text{Int}[(e*x)^m/(a + b*x^n), x], x] - \text{Simp}[d/(b*c - a*d) \quad \text{Int}[(e*x)^m/(c + d*x^n), x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
1011. $\text{Int}[(e_.)*(x_.))^{(m_.)*((a_.) + (b_.)*(x_.)^{(n_.))}^{(p_.)*((c_.) + (d_.)*(x_.)^{(n_.))}^{(q_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(e*x)^m*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IGtQ}[p, -2] \&\& (\text{IGtQ}[q, -2] \parallel (\text{EqQ}[q, -3] \&\& \text{IntegerQ}[(m - 1)/2]))$

1012. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[a^p \cdot c^q \cdot (e \cdot x)^{m+1} / (e \cdot (m+1))] \cdot \text{AppellF1}[(m+1)/n, -p, -q, 1 + (m+1)/n, (-b) \cdot (x^n/a), (-d) \cdot (x^n/c)], x] /;$ $\text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x\} \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{NeQ}[m, n - 1] \ \&\& \ (\text{IntegerQ}[p] \ || \ \text{GtQ}[a, 0]) \ \&\& \ (\text{IntegerQ}[q] \ || \ \text{GtQ}[c, 0])$
1013. $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x_Symbol] \rightarrow \text{Simp}[a^p \cdot \text{IntPart}[p] \cdot (a + b \cdot x^n)^{\text{FracPart}[p]} / (1 + b \cdot (x^n/a))^{\text{FracPart}[p]} \ \text{Int}[(e \cdot x)^m \cdot (1 + b \cdot (x^n/a))^p \cdot (c + d \cdot x^n)^q, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x\} \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{NeQ}[m, n - 1] \ \&\& \ !(\text{IntegerQ}[p] \ || \ \text{GtQ}[a, 0])$
1014. $\text{Int}[u^m \cdot (a + b \cdot v^n)^p \cdot (c + d \cdot v^n)^q, x_Symbol] \rightarrow \text{Simp}[u^m / (\text{Coefficient}[v, x, 1] \cdot v^m) \ \text{Subst}[\text{Int}[x^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x, v], x] /;$ $\text{FreeQ}\{a, b, c, d, m, n, p, q\}, x\} \ \&\& \ \text{LinearPairQ}[u, v, x]$
1015. $\text{Int}[(a + b \cdot v^n)^p \cdot (c + d \cdot v^n)^q \cdot (x)^m, x_Symbol] \rightarrow \text{Simp}[1 / \text{Coefficient}[v, x, 1]^{m+1} \ \text{Subst}[\text{Int}[\text{SimplifyIntegrand}[(x - \text{Coefficient}[v, x, 0])^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x], x, v], x] /;$ $\text{FreeQ}\{a, b, c, d, n, p, q\}, x\} \ \&\& \ \text{LinearQ}[v, x] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{NeQ}[v, x]$
1016. $\text{Int}[x^m \cdot (c + d \cdot x^{mn})^q \cdot (a + b \cdot x^n)^p, x_Symbol] \rightarrow \text{Int}[x^{(m - n \cdot q)} \cdot (a + b \cdot x^n)^p \cdot (d + c \cdot x^n)^q, x] /;$ $\text{FreeQ}\{a, b, c, d, m, n, p\}, x\} \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ (\text{PosQ}[n] \ || \ !\text{IntegerQ}[p])$
1017. $\text{Int}[x^m \cdot (c + d \cdot x^{mn})^q \cdot (a + b \cdot x^n)^p, x_Symbol] \rightarrow \text{Simp}[x^{(n \cdot \text{FracPart}[q])} \cdot (c + d \cdot x^n)^{\text{FracPart}[q]} / (d + c \cdot x^n)^{\text{FracPart}[q]} \ \text{Int}[x^{(m - n \cdot q)} \cdot (a + b \cdot x^n)^p \cdot (d + c \cdot x^n)^q, x], x] /;$ $\text{FreeQ}\{a, b, c, d, m, n, p, q\}, x\} \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ !\text{IntegerQ}[p]$

1018. $\text{Int}[(e_*)(x_*)^{(m_*)}((c_*) + (d_*)(x_*)^{(mn_*)})^{(q_*)}((a_*) + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*x^n)^p*(c + d/x^n)^q, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p, q\}, x] \&\& \text{EqQ}[mn, -n]$
1019. $\text{Int}[(a_*) + (b_*)(x_*)^{(n_*)})^{(p_*)}((c_*) + (d_*)(x_*)^{(n_*)})^{(q_*)}((e_*) + (f_*)(x_*)^{(n_*)})^{(r_*)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, 0] \&\& \text{IGtQ}[r, 0]$
1020. $\text{Int}[(e_*) + (f_*)(x_*)^{(n_*)})/((a_*) + (b_*)(x_*)^{(n_*)}((c_*) + (d_*)(x_*)^{(n_*)})), x_Symbol] \rightarrow \text{Simp}[(b*e - a*f)/(b*c - a*d) \text{Int}[1/(a + b*x^n), x], x] - \text{Simp}[(d*e - c*f)/(b*c - a*d) \text{Int}[1/(c + d*x^n), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x]$
1021. $\text{Int}[(e_*) + (f_*)(x_*)^{(n_*)})/((a_*) + (b_*)(x_*)^{(n_*)}*\text{Sqrt}[(c_*) + (d_*)(x_*)^{(n_*)}]), x_Symbol] \rightarrow \text{Simp}[f/b \text{Int}[1/\text{Sqrt}[c + d*x^n], x], x] + \text{Simp}[(b*e - a*f)/b \text{Int}[1/((a + b*x^n)*\text{Sqrt}[c + d*x^n]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x]$
1022. $\text{Int}[(e_*) + (f_*)(x_*)^{(n_*)})/(\text{Sqrt}[(a_*) + (b_*)(x_*)^{(n_*)}]*\text{Sqrt}[(c_*) + (d_*)(x_*)^{(n_*)}]), x_Symbol] \rightarrow \text{Simp}[f/b \text{Int}[\text{Sqrt}[a + b*x^n]/\text{Sqrt}[c + d*x^n], x], x] + \text{Simp}[(b*e - a*f)/b \text{Int}[1/(\text{Sqrt}[a + b*x^n]*\text{Sqrt}[c + d*x^n]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& !(\text{EqQ}[n, 2] \&\& ((\text{PosQ}[b/a] \&\& \text{PosQ}[d/c]) || (\text{NegQ}[b/a] \&\& (\text{PosQ}[d/c] || (\text{GtQ}[a, 0] \&\& (!\text{GtQ}[c, 0] || \text{SimplerSqrtQ}[-b/a, -d/c])))$
1023. $\text{Int}[(a_*) + (b_*)(x_*)^{(n_*)})^{(p_*)}((c_*) + (d_*)(x_*)^{(n_*)})^{(q_*)}((e_*) + (f_*)(x_*)^{(n_*)}), x_Symbol] \rightarrow \text{Simp}[(-b*e - a*f)*x*(a + b*x^n)^{(p+1)}*((c + d*x^n)^q/(a*b*n*(p+1))), x] + \text{Simp}[1/(a*b*n*(p+1)) \text{Int}[(a + b*x^n)^{(p+1)}*(c + d*x^n)^{(q-1)}*\text{Simp}[c*(b*e*n*(p+1) + b*e - a*f) + d*(b*e*n*(p+1) + (b*e - a*f)*(n*q + 1))*x^n, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 0]$
1024. $\text{Int}[(a_*) + (b_*)(x_*)^{(n_*)})^{(p_*)}((c_*) + (d_*)(x_*)^{(n_*)})^{(q_*)}((e_*) + (f_*)(x_*)^{(n_*)}), x_Symbol] \rightarrow \text{Simp}[(-b*e - a*f)*x*(a + b*x^n)^{(p+1)}*((c + d*x^n)^{(q+1)}/(a*n*(b*c - a*d)*(p+1))), x] + \text{Simp}[1/(a*$

- $n*(b*c - a*d)*(p + 1)$ Int[(a + b*x^n)^(p + 1)*(c + d*x^n)^q*Simp[c*(b*e - a*f) + e*n*(b*c - a*d)*(p + 1) + d*(b*e - a*f)*(n*(p + q + 2) + 1)*x^n, x], x] /; FreeQ[{a, b, c, d, e, f, n, q}, x] && LtQ[p, -1]
1025. Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[f*x*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(b*(n*(p + q + 1) + 1))), x] + Simp[1/(b*(n*(p + q + 1) + 1)) Int[(a + b*x^n)^p*(c + d*x^n)^(q - 1)*Simp[c*(b*e - a*f + b*e*n*(p + q + 1)) + (d*(b*e - a*f) + f*n*q*(b*c - a*d) + b*d*e*n*(p + q + 1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && GtQ[q, 0] && NeQ[n*(p + q + 1) + 1, 0]
1026. Int[(((a_) + (b_)*(x_)^(n_))^(p_)*((e_) + (f_)*(x_)^(n_)))/((c_) + (d_)*(x_)^(n_)), x_Symbol] := Simp[f/d Int[(a + b*x^n)^p, x], x] + Simp[(d*e - c*f)/d Int[(a + b*x^n)^p/(c + d*x^n), x], x] /; FreeQ[{a, b, c, d, e, f, p, n}, x]
1027. Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[e Int[(a + b*x^n)^p*(c + d*x^n)^q, x], x] + Simp[f Int[x^n*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; FreeQ[{a, b, c, d, e, f, n, p, q}, x]
1028. Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Simp[d/b Int[(a + b*x^n)^(p + 1)*(c + d*x^n)^(q - 1)*(e + f*x^n)^r, x], x] + Simp[(b*c - a*d)/b Int[(a + b*x^n)^p*(c + d*x^n)^(q - 1)*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, n, r}, x] && ILtQ[p, 0] && GtQ[q, 0]
1029. Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Simp[b/(b*c - a*d) Int[(a + b*x^n)^p*(c + d*x^n)^(q + 1)*(e + f*x^n)^r, x], x] - Simp[d/(b*c - a*d) Int[(a + b*x^n)^(p + 1)*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, n, q}, x] && ILtQ[p, 0] && LeQ[q, -1]
1030. Int[((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := With[{u = ExpandIntegrand[(a + b

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x^n)^p(c + d*x^n)^q*(e + f*x^n)^r, x]}, Int[u, x] /; SumQ[u] /; FreeQ[{a, b, c, d, e, f, p, q, r}, x] && IGtQ[n, 0]

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1031.  $\text{Int}[(a + (b \cdot x)^n)^p \cdot ((c + (d \cdot x)^n)^q \cdot ((e + (f \cdot x)^n)^r), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b/x^n)^p \cdot (c + d/x^n)^q \cdot ((e + f/x^n)^r/x^2), x], x, 1/x] /; \text{FreeQ}\{a, b, c, d, e, f, p, q, r\}, x] \ \&\& \ \text{ILtQ}[n, 0]$
1032.  $\text{Int}[(a + (b \cdot x)^n)^p \cdot ((c + (d \cdot x)^n)^q \cdot ((e + (f \cdot x)^n)^r), x\_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r, x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p, q, r\}, x]$
1033.  $\text{Int}[(a + (b \cdot u)^n)^p \cdot ((c + (d \cdot v)^n)^q \cdot ((e + (f \cdot w)^n)^r), x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[(a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r, x], x, u], x] /; \text{FreeQ}\{a, b, c, d, e, f, p, n, q, r\}, x] \ \&\& \ \text{EqQ}[u, v] \ \&\& \ \text{EqQ}[u, w] \ \&\& \ \text{LinearQ}[u, x] \ \&\& \ \text{NeQ}[u, x]$
1034.  $\text{Int}[(c + (d \cdot x)^{mn})^q \cdot ((a + (b \cdot x)^n)^p \cdot ((e + (f \cdot x)^n)^r), x\_Symbol] \rightarrow \text{Int}[(a + b \cdot x^n)^p \cdot (d + c \cdot x^n)^q \cdot ((e + f \cdot x^n)^r/x^{n \cdot q}), x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p, r\}, x] \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ \text{IntegerQ}[q]$
1035.  $\text{Int}[(c + (d \cdot x)^{mn})^q \cdot ((a + (b \cdot x)^n)^p \cdot ((e + (f \cdot x)^n)^r), x\_Symbol] \rightarrow \text{Int}[x^{n \cdot (p+r)} \cdot (b + a/x^n)^p \cdot (c + d/x^n)^q \cdot (f + e/x^n)^r, x] /; \text{FreeQ}\{a, b, c, d, e, f, n, q\}, x] \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[r]$
1036.  $\text{Int}[(c + (d \cdot x)^{mn})^q \cdot ((a + (b \cdot x)^n)^p \cdot ((e + (f \cdot x)^n)^r), x\_Symbol] \rightarrow \text{Simp}[x^{n \cdot \text{FracPart}[q]} \cdot ((c + d/x^n)^{\text{FracPart}[q]} / (d + c \cdot x^n)^{\text{FracPart}[q]}) \text{Int}[(a + b \cdot x^n)^p \cdot (d + c \cdot x^n)^q \cdot ((e + f \cdot x^n)^r/x^{n \cdot q}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n, p, q, r\}, x] \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ !\text{IntegerQ}[q]$

1037.  $\text{Int}[(g \cdot x)^m \cdot (b \cdot x^n)^p \cdot (c + d \cdot x^n) \cdot (e + f \cdot x^n)^r, x_{\text{Symbol}}] \rightarrow \text{Simp}[g^m / (n \cdot b \cdot (\text{Simplify}[(m + 1)/n] - 1)) \text{Subst}[\text{Int}[(b \cdot x)^{p + \text{Simplify}[(m + 1)/n] - 1} \cdot (c + d \cdot x)^q \cdot (e + f \cdot x)^r, x], x, x^n], x] /; \text{FreeQ}[\{b, c, d, e, f, g, m, n, p, q, r\}, x] \&\& (\text{IntegerQ}[m] \parallel \text{GtQ}[g, 0]) \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
1038.  $\text{Int}[(g \cdot x)^m \cdot (b \cdot x^n)^p \cdot (c + d \cdot x^n) \cdot (e + f \cdot x^n)^r, x_{\text{Symbol}}] \rightarrow \text{Simp}[g^m \cdot b \cdot \text{IntPart}[p] \cdot (b \cdot x^n)^{\text{FracPart}[p]} / x^{(n \cdot \text{FracPart}[p])} \text{Int}[x^{(m + n \cdot p)} \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r, x], x] /; \text{FreeQ}[\{b, c, d, e, f, g, m, n, p, q, r\}, x] \&\& (\text{IntegerQ}[m] \parallel \text{GtQ}[g, 0]) \&\& !\text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
1039.  $\text{Int}[(g \cdot x)^m \cdot (b \cdot x^n)^p \cdot (c + d \cdot x^n) \cdot (e + f \cdot x^n)^r, x_{\text{Symbol}}] \rightarrow \text{Simp}[g^{\text{IntPart}[m]} \cdot (g \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]} \text{Int}[x^m \cdot (b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r, x], x] /; \text{FreeQ}[\{b, c, d, e, f, g, m, n, p, q, r\}, x] \&\& !\text{IntegerQ}[m]$
1040.  $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n) \cdot (e + f \cdot x^n)^r, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n\}, x] \&\& \text{IGtQ}[p, -2] \&\& \text{IGtQ}[q, 0] \&\& \text{IGtQ}[r, 0]$
1041.  $\text{Int}[x^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n) \cdot (e + f \cdot x^n)^r, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/n \text{Subst}[\text{Int}[(a + b \cdot x)^p \cdot (c + d \cdot x)^q \cdot (e + f \cdot x)^r, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p, q, r\}, x] \&\& \text{EqQ}[m - n + 1, 0]$
1042.  $\text{Int}[x^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n) \cdot (e + f \cdot x^n)^r, x_{\text{Symbol}}] \rightarrow \text{Int}[x^{(m + n \cdot (p + q + r))} \cdot (b + a/x^n)^p \cdot (d + c/x^n)^q \cdot (f + e/x^n)^r, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x] \&\& \text{IntegersQ}[p, q, r] \&\& \text{NegQ}[n]$
1043.  $\text{Int}[x^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n) \cdot (e + f \cdot x^n)^r, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/n \text{Subst}[\text{Int}[(a + b \cdot x)^p \cdot (c + d \cdot x)^q \cdot (e + f \cdot x)^r, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p, q, r\}, x] \&\& \text{EqQ}[m - n + 1, 0]$

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nt[x^(Simplify[(m + 1)/n] - 1)*(a + b*x)^p*(c + d*x)^q*(e + f*x)^r, x]
, x, x^n], x] /; FreeQ[{a, b, c, d, e, f, m, n, p, q, r}, x] && IntegerQ[Simplify[(m + 1)/n]]

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1044. $\text{Int}[(g(x))^m * ((a) + (b)(x)^n)^p * ((c) + (d)(x)^n)^q * ((e) + (f)(x)^n)^r, x_Symbol] \rightarrow \text{Simp}[g^{\text{IntPart}[m]} * ((g*x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m * (a + b*x^n)^p * (c + d*x^n)^q * (e + f*x^n)^r, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p, q, r\}, x\} \&\& \text{IntegerQ}[Simplify[(m + 1)/n]]$
1045. $\text{Int}[(x)^m * ((a) + (b)(x)^n)^p * ((c) + (d)(x)^n)^q * ((e) + (f)(x)^n)^r, x_Symbol] \rightarrow \text{With}\{k = \text{GCD}[m + 1, n]\}, \text{Simp}[1/k \text{Subst}[\text{Int}[x^{(m + 1)/k - 1} * (a + b*x^{(n/k)})^p * (c + d*x^{(n/k)})^q * (e + f*x^{(n/k)})^r, x], x, x^k], x] /; k \neq 1] /; \text{FreeQ}\{a, b, c, d, e, f, p, q, r\}, x\} \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m]$
1046. $\text{Int}[(g(x))^m * ((a) + (b)(x)^n)^p * ((c) + (d)(x)^n)^q * ((e) + (f)(x)^n)^r, x_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k/g \text{Subst}[\text{Int}[x^{(k*(m + 1) - 1)} * (a + b*(x^{(k*n)})/g^n)^p * (c + d*(x^{(k*n)})/g^n)^q * (e + f*(x^{(k*n)})/g^n)^r, x], x, (g*x)^{(1/k)}], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p, q, r\}, x\} \&\& \text{IGtQ}[n, 0] \&\& \text{FractionQ}[m]$
1047. $\text{Int}[(g(x))^m * ((a) + (b)(x)^n)^p * ((c) + (d)(x)^n)^q * ((e) + (f)(x)^n)^r, x_Symbol] \rightarrow \text{Simp}[(-b*e - a*f) * (g*x)^{m + 1} * (a + b*x^n)^{p + 1} * ((c + d*x^n)^q / (a*b*g*n*(p + 1))), x] + \text{Simp}[1/(a*b*n*(p + 1)) \text{Int}[(g*x)^m * (a + b*x^n)^{p + 1} * (c + d*x^n)^{q - 1} * \text{Simp}[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*(p + 1) + (b*e - a*f)*(m + n*q + 1)) * x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m\}, x\} \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 0] \&\& !(EqQ[q, 1] \&\& \text{SimplerQ}[b*c - a*d, b*e - a*f])$
1048. $\text{Int}[(g(x))^m * ((a) + (b)(x)^n)^p * ((c) + (d)(x)^n)^q * ((e) + (f)(x)^n)^r, x_Symbol] \rightarrow \text{Simp}[g^{(n - 1)} * (b*e - a*f) * (g*x)^{m - n + 1} * (a + b*x^n)^{p + 1} * ((c + d*x^n)^{q + 1} / (b*n*(b*c - a*d)*(p + 1))), x] - \text{Simp}[g^n / (b*n*(b*c - a*d)*(p + 1)) \text{Int}[(g*x)^{m - n} * (a + b*x^n)^{p + 1} * (c + d*x^n)^q * \text{Simp}[c*(b*e - a*f) * ($

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m - n + 1) + (d*(b*e - a*f)*(m + n*q + 1) - b*n*(c*f - d*e)*(p + 1))*x
^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, q}, x] && IGtQ[n, 0] &&
LtQ[p, -1] && GtQ[m - n + 1, 0]

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1049. Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_
)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)
)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^(q + 1)/(a*g*n*(b*c -
a*d)*(p + 1))), x] + Simp[1/(a*n*(b*c - a*d)*(p + 1)) Int[(g*x)^m*(
a + b*x^n)^(p + 1)*(c + d*x^n)^q*Simp[c*(b*e - a*f)*(m + 1) + e*n*(b*c
- a*d)*(p + 1) + d*(b*e - a*f)*(m + n*(p + q + 2) + 1)*x^n, x], x]
] /; FreeQ[{a, b, c, d, e, f, g, m, q}, x] && IGtQ[n, 0] && LtQ[p, -1]

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1050. Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x_
)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[e*(g*x)^(m +
1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*g*(m + 1))), x] - Simp[1/(a*
g^n*(m + 1)) Int[(g*x)^(m + n)*(a + b*x^n)^p*(c + d*x^n)^(q - 1)*Sim
p[c*(b*e - a*f)*(m + 1) + e*n*(b*c*(p + 1) + a*d*q) + d*((b*e - a*f)*(
m + 1) + b*e*n*(p + q + 1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f
, g, p}, x] && IGtQ[n, 0] && GtQ[q, 0] && LtQ[m, -1] && !(EqQ[q, 1] &
& SimplerQ[e + f*x^n, c + d*x^n])

```

```

1051. Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x
)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[f*(g*x)^(m
+ 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(b*g*(m + n*(p + q + 1) + 1)))
, x] + Simp[1/(b*(m + n*(p + q + 1) + 1)) Int[(g*x)^m*(a + b*x^n)^p*(
c + d*x^n)^(q - 1)*Simp[c*((b*e - a*f)*(m + 1) + b*e*n*(p + q + 1)) +
(d*(b*e - a*f)*(m + 1) + f*n*q*(b*c - a*d) + b*e*d*n*(p + q + 1))*x^n
, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p}, x] && IGtQ[n, 0] &&
GtQ[q, 0] && !(EqQ[q, 1] && SimplerQ[e + f*x^n, c + d*x^n])

```

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1052. Int[((g_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*((c_) + (d_.)*(x
)^(n_))^(q_.)*((e_) + (f_.)*(x_)^(n_)), x_Symbol] := Simp[f*g^(n - 1)
*(g*x)^(m - n + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^(q + 1)/(b*d*(m +
n*(p + q + 1) + 1))), x] - Simp[g^n/(b*d*(m + n*(p + q + 1) + 1)) In
t[(g*x)^(m - n)*(a + b*x^n)^p*(c + d*x^n)^q*Simp[a*f*c*(m - n + 1) + (
a*f*d*(m + n*q + 1) + b*(f*c*(m + n*p + 1) - e*d*(m + n*(p + q + 1) +
1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, p, q}, x] && IGtQ[

```


- $n, 0]$ && GtQ[m, n - 1]
1053. $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n), x_Symbol] \rightarrow \text{Simp}[e \cdot (g \cdot x)^{m+1} \cdot (a + b \cdot x^n)^{p+1} \cdot (c + d \cdot x^n)^{q+1} / (a \cdot c \cdot g \cdot (m+1)), x] + \text{Simp}[1 / (a \cdot c \cdot g^{n \cdot (m+1)}) \cdot \text{Int}[(g \cdot x)^{m+n} \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot \text{Simp}[a \cdot f \cdot c \cdot (m+1) - e \cdot (b \cdot c + a \cdot d) \cdot (m+n+1) - e \cdot n \cdot (b \cdot c \cdot p + a \cdot d \cdot q) - b \cdot e \cdot d \cdot (m+n \cdot (p+q+2) + 1) \cdot x^n, x], x], x] /;$ FreeQ[{a, b, c, d, e, f, g, p, q}, x] && IGtQ[n, 0] && LtQ[m, -1]
1054. $\text{Int}[((g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (e + f \cdot x^n) / (c + d \cdot x^n)) / ((c + d \cdot x^n) \cdot (x)^n), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (e + f \cdot x^n) / (c + d \cdot x^n), x], x] /;$ FreeQ[{a, b, c, d, e, f, g, m, p}, x] && IGtQ[n, 0]
1055. $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n), x_Symbol] \rightarrow \text{Simp}[e \cdot \text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x] + \text{Simp}[f / e^n \cdot \text{Int}[(g \cdot x)^{m+n} \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q, x], x] /;$ FreeQ[{a, b, c, d, e, f, g, m, p, q}, x] && IGtQ[n, 0]
1056. $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r \cdot (x)^n, x_Symbol] \rightarrow \text{Simp}[e \cdot \text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^{r-1}, x], x] + \text{Simp}[f / e^n \cdot \text{Int}[(g \cdot x)^{m+n} \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r \cdot (x)^n, x], x] /;$ FreeQ[{a, b, c, d, e, f, g, m, p, q}, x] && IGtQ[n, 0] && IGtQ[r, 0]
1057. $\text{Int}[(x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r \cdot (x)^n, x_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b / x^n)^p \cdot (c + d / x^n)^q \cdot (e + f / x^n)^r / x^{m+2}], x], x, 1/x] /;$ FreeQ[{a, b, c, d, e, f, p, q, r}, x] && ILtQ[n, 0] && IntegerQ[m]
1058. $\text{Int}[(g \cdot x)^m \cdot (a + b \cdot x^n)^p \cdot (c + d \cdot x^n)^q \cdot (e + f \cdot x^n)^r \cdot (x)^n, x_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[-k/g \cdot \text{Subst}[\text{Int}[(a + b / (g^n \cdot x^{k \cdot n}))^p \cdot (c + d / (g^n \cdot x^{k \cdot n}))^q \cdot (e + f / (g^n \cdot x^{k \cdot n}))^r / x^{k \cdot (m+1) + 1}], x], x, 1/$

- $(g*x)^{(1/k)}, x]$ /; FreeQ[{a, b, c, d, e, f, g, p, q, r}, x] && ILtQ[n, 0] && FractionQ[m]
1059. Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Simp[(-g*x)^(m)*(x^(-1))^m Subst[Int[(a + b/x^n)^p*(c + d/x^n)^q*(e + f/x^n)^r/x^(m + 2)], x], x, 1/x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p, q, r}, x] && ILtQ[n, 0] && !RationalQ[m]
1060. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := With[{k = Denominator[n]}, Simp[k Subst[Int[x^(k*(m + 1) - 1)*(a + b*x^(k*n))^p*(c + d*x^(k*n))^q*(e + f*x^(k*n))^r, x], x, x^(1/k)], x]] /; FreeQ[{a, b, c, d, e, f, m, p, q, r}, x] && FractionQ[n]
1061. Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Simp[g^IntPart[m]*((g*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p, q, r}, x] && FractionQ[n]
1062. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Simp[1/(m + 1) Subst[Int[(a + b*x^Simplify[n/(m + 1)])^p*(c + d*x^Simplify[n/(m + 1)])^q*(e + f*x^Simplify[n/(m + 1)])^r, x], x, x^(m + 1)], x] /; FreeQ[{a, b, c, d, e, f, m, n, p, q, r}, x] && IntegerQ[Simplify[n/(m + 1)]]
1063. Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_))^(r_), x_Symbol] := Simp[g^IntPart[m]*((g*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a + b*x^n)^p*(c + d*x^n)^q*(e + f*x^n)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p, q, r}, x] && IntegerQ[Simplify[n/(m + 1)]]
1064. Int[((g_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(x_)^(n_))^(q_)*((e_) + (f_)*(x_)^(n_)), x_Symbol] := Simp[(-b*e - a*f)*(g*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^q/(a*b*g*n*(p + 1))), x] + Simp[1/(a*b*n*(p + 1)) Int[(g*x)^m*(a + b*x^n)^(p + 1)*(c + d

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*x^n)^(q - 1)*Simp[c*(b*e*n*(p + 1) + (b*e - a*f)*(m + 1)) + d*(b*e*n*
(p + 1) + (b*e - a*f)*(m + n*q + 1))*x^n, x], x] /; FreeQ[{a, b, c
, d, e, f, g, m, n}, x] && LtQ[p, -1] && GtQ[q, 0] && !(EqQ[q, 1] &&
SimplerQ[b*c - a*d, b*e - a*f])

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1065.  $\text{Int}[\left((g_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^{n_{\cdot}}\right)^{p_{\cdot}}\left((c_{\cdot}) + (d_{\cdot})(x_{\cdot})^{n_{\cdot}}\right)^{q_{\cdot}}\left((e_{\cdot}) + (f_{\cdot})(x_{\cdot})^{n_{\cdot}}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b*e - a*f) * (g*x)^{m+1} * (a + b*x^n)^{p+1} * ((c + d*x^n)^{q+1} / (a*g*n*(b*c - a*d)*(p+1))), x] + \text{Simp}[1/(a*n*(b*c - a*d)*(p+1)) \text{Int}[(g*x)^m * (a + b*x^n)^{p+1} * (c + d*x^n)^q * \text{Simp}[c*(b*e - a*f)*(m+1) + e*n*(b*c - a*d)*(p+1) + d*(b*e - a*f)*(m + n*(p+q+2) + 1)*x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, q\}, x] \&\& \text{LtQ}\{p, -1\}$
1066.  $\text{Int}[\left((g_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^{n_{\cdot}}\right)^{p_{\cdot}}\left((c_{\cdot}) + (d_{\cdot})(x_{\cdot})^{n_{\cdot}}\right)^{q_{\cdot}}\left((e_{\cdot}) + (f_{\cdot})(x_{\cdot})^{n_{\cdot}}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[f*(g*x)^{m+1} * (a + b*x^n)^{p+1} * ((c + d*x^n)^q / (b*g*(m + n*(p+q+1) + 1))), x] + \text{Simp}[1/(b*(m + n*(p+q+1) + 1)) \text{Int}[(g*x)^m * (a + b*x^n)^p * (c + d*x^n)^{q-1} * \text{Simp}[c*((b*e - a*f)*(m+1) + b*e*n*(p+q+1)) + (d*(b*e - a*f)*(m+1) + f*n*q*(b*c - a*d) + b*e*d*n*(p+q+1))*x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{GtQ}\{q, 0\} \&\& !(EqQ\{q, 1\} \&\& \text{SimplerQ}\{e + f*x^n, c + d*x^n\})$
1067.  $\text{Int}[\left(\left(\left(g_{\cdot}\right)\left(x_{\cdot}\right)\right)^{m_{\cdot}}\left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\left(x_{\cdot}\right)^{n_{\cdot}}\right)^{p_{\cdot}}\left(\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)^{n_{\cdot}}\right)\right) / \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right)\left(x_{\cdot}\right)^{n_{\cdot}}\right), x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(g*x)^m * (a + b*x^n)^p * ((e + f*x^n) / (c + d*x^n)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x]$
1068.  $\text{Int}[\left(\left(g_{\cdot}\right)\left(x_{\cdot}\right)\right)^{m_{\cdot}}\left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\left(x_{\cdot}\right)^{n_{\cdot}}\right)^{p_{\cdot}}\left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right)\left(x_{\cdot}\right)^{n_{\cdot}}\right)^{q_{\cdot}}\left(\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)^{n_{\cdot}}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[e \text{Int}[(g*x)^m * (a + b*x^n)^p * (c + d*x^n)^q, x], x] + \text{Simp}[f*((g*x)^m/x^m) \text{Int}[x^{m+n} * (a + b*x^n)^p * (c + d*x^n)^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p, q\}, x]$
1069.  $\text{Int}[\left(x_{\cdot}\right)^{m_{\cdot}}\left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right)\left(x_{\cdot}\right)^{mn_{\cdot}}\right)^{q_{\cdot}}\left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\left(x_{\cdot}\right)^{n_{\cdot}}\right)^{p_{\cdot}}\left(\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)^{n_{\cdot}}\right)^{r_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Int}[x^{m-n*q} * (a + b*x^n)^p * (d + c*x^n)^q * (e + f*x^n)^r, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p, r\}, x] \&\& \text{EqQ}\{mn, -n\} \&\& \text{IntegerQ}\{q\}$

1070.  $\text{Int}[(x_)^{(m_)} * ((c_) + (d_)*(x_)^{(mn_)})^{(q_)} * ((a_) + (b_)*(x_)^{(n_)})^{(p_)} * ((e_) + (f_)*(x_)^{(n_)})^{(r_)}, x\_Symbol] \rightarrow \text{Int}[x^{(m+n*(p+r))} * (b + a/x^n)^p * (c + d/x^n)^q * (f + e/x^n)^r, x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, m, n, q\}, x] \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[r]$
1071.  $\text{Int}[(x_)^{(m_)} * ((c_) + (d_)*(x_)^{(mn_)})^{(q_)} * ((a_) + (b_)*(x_)^{(n_)})^{(p_)} * ((e_) + (f_)*(x_)^{(n_)})^{(r_)}, x\_Symbol] \rightarrow \text{Simp}[x^{(n*\text{FracPart}[q])} * ((c + d/x^n)^{\text{FracPart}[q]} / (d + c*x^n)^{\text{FracPart}[q]}) \ \text{Int}[x^{(m-n*q)} * (a + b*x^n)^p * (d + c*x^n)^q * (e + f*x^n)^r, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, m, n, p, q, r\}, x] \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ !\text{IntegerQ}[q]$
1072.  $\text{Int}[((g_)*(x_))^{(m_)} * ((c_) + (d_)*(x_)^{(mn_)})^{(q_)} * ((a_) + (b_)*(x_)^{(n_)})^{(p_)} * ((e_) + (f_)*(x_)^{(n_)})^{(r_)}, x\_Symbol] \rightarrow \text{Simp}[g^{\text{IntPart}[m]} * ((g*x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \ \text{Int}[x^m * (a + b*x^n)^p * (c + d/x^n)^q * (e + f*x^n)^r, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p, q, r\}, x] \ \&\& \ \text{EqQ}[mn, -n]$
1073.  $\text{Int}[((g_)*(x_))^{(m_)} * ((a_) + (b_)*(x_)^{(n_)})^{(p_)} * ((c_) + (d_)*(x_)^{(n_)})^{(q_)} * ((e_) + (f_)*(x_)^{(n_)})^{(r_)}, x\_Symbol] \rightarrow \text{Unintegrable}[(g*x)^m * (a + b*x^n)^p * (c + d*x^n)^q * (e + f*x^n)^r, x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p, q, r\}, x]$
1074.  $\text{Int}[(u_)^{(m_)} * ((a_) + (b_)*(v_)^{(n_)})^{(p_)} * ((c_) + (d_)*(v_)^{(n_)})^{(q_)} * ((e_) + (f_)*(v_)^{(n_)})^{(r_)}, x\_Symbol] \rightarrow \text{Simp}[u^m / (\text{Coefficient}[v, x, 1] * v^m) \ \text{Subst}[\text{Int}[x^m * (a + b*x^n)^p * (c + d*x^n)^q * (e + f*x^n)^r, x], x, v], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, m, n, p, q, r\}, x] \ \&\& \ \text{LinearPairQ}[u, v, x]$
1075.  $\text{Int}[((g_)*(x_))^{(m_)} * ((e1_) + (f1_)*(x_)^{(n2_)})^{(r_)} * ((e2_) + (f2_)*(x_)^{(n2_)})^{(r_)} * ((a_) + (b_)*(x_)^{(n_)})^{(p_)} * ((c_) + (d_)*(x_)^{(n_)})^{(q_)}, x\_Symbol] \rightarrow \text{Int}[(g*x)^m * (a + b*x^n)^p * (c + d*x^n)^q * (e1*e2 + f1*f2*x^n)^r, x] /;$   $\text{FreeQ}[\{a, b, c, d, e1, f1, e2, f2, g, m, n, p, q, r\}, x] \ \&\& \ \text{EqQ}[n2, n/2] \ \&\& \ \text{EqQ}[e2*f1 + e1*f2, 0] \ \&\& \ (\text{IntegerQ}[r] \ || \ (\text{GtQ}[e1, 0] \ \&\& \ \text{GtQ}[e2, 0]))$

1076.  $\text{Int}[(g\_)(x\_)^{(m\_)}((e1\_)+(f1\_)(x\_)^{(n2\_)})^{(r\_)}((e2\_)+(f2\_)(x\_)^{(n2\_)})^{(r\_)}((a\_)+(b\_)(x\_)^{(n\_)})^{(p\_)}((c\_)+(d\_)(x\_)^{(n\_)})^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[(e1+f1*x^{(n/2)})^{\text{FracPart}[r]}((e2+f2*x^{(n/2)})^{\text{FracPart}[r]}/(e1*e2+f1*f2*x^n)^{\text{FracPart}[r]}) \text{Int}[(g*x)^m(a+b*x^n)^p(c+d*x^n)^q(e1*e2+f1*f2*x^n)^r, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e1, f1, e2, f2, g, m, n, p, q, r\}, x\} \&\& \text{EqQ}[n2, n/2] \&\& \text{EqQ}[e2*f1+e1*f2, 0]$
1077.  $\text{Int}[(a\_)+(b\_)(x\_)+(c\_)(x\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[1/c^p \text{Int}[(b/2+c*x)^{(2*p)}, x], x] /;$   $\text{FreeQ}\{a, b, c\}, x\} \&\& \text{EqQ}[b^2-4*a*c, 0] \&\& \text{IntegerQ}[p]$
1078.  $\text{Int}[(a\_)+(b\_)(x\_)+(c\_)(x\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[2*((a+b*x+c*x^2)^{(p+1)}/((2*p+1)*(b+2*c*x))), x] /;$   $\text{FreeQ}\{a, b, c, p\}, x\} \&\& \text{EqQ}[b^2-4*a*c, 0] \&\& \text{LtQ}[p, -1]$
1079.  $\text{Int}[(a\_)+(b\_)(x\_)+(c\_)(x\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(a+b*x+c*x^2)^{\text{FracPart}[p]}/(c^{\text{IntPart}[p]}(b/2+c*x)^{(2*\text{FracPart}[p])}) \text{Int}[(b/2+c*x)^{(2*p)}, x], x] /;$   $\text{FreeQ}\{a, b, c, p\}, x\} \&\& \text{EqQ}[b^2-4*a*c, 0]$
1080.  $\text{Int}[(b\_)(x\_)+(c\_)(x\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[x^p(b+c*x)^p, x], x] /;$   $\text{FreeQ}\{b, c\}, x\} \&\& \text{IntegerQ}[p]$
1081.  $\text{Int}[(a\_)+(b\_)(x\_)+(c\_)(x\_)^2]^{(-1)}, x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2-4*a*c, 2]\}, \text{Simp}[c \text{Int}[\text{ExpandIntegrand}[1/((b/2-q/2+c*x)*(b/2+q/2+c*x)), x], x], x] /;$   $\text{FreeQ}\{a, b, c\}, x\} \&\& \text{NiceSqrtQ}[b^2-4*a*c]$
1082.  $\text{Int}[(a\_)+(b\_)(x\_)+(c\_)(x\_)^2]^{(-1)}, x\_Symbol] \rightarrow \text{With}\{q = 1-4*\text{Simplify}[a/(b^2)]\}, \text{Simp}[-2/b \text{Subst}[\text{Int}[1/(q-x^2), x], x, 1+2*c*(x/b)], x] /;$   $\text{RationalQ}[q] \&\& (\text{EqQ}[q^2, 1] \|\ !\text{RationalQ}[b^2-4*a*c]) /;$   $\text{FreeQ}\{a, b, c\}, x\}$
1083.  $\text{Int}[(a\_)+(b\_)(x\_)+(c\_)(x\_)^2]^{(-1)}, x\_Symbol] \rightarrow \text{Simp}[-2 \text{Subst}[\text{Int}[1/\text{Simp}[b^2-4*a*c-x^2, x], x], x, b+2*c*x], x] /;$   $\text{FreeQ}\{$

a, b, c}, x]

1084.  $\text{Int}[(a\_ + (b\_)(x\_ ) + (c\_)(x\_ )^2)^{p\_}, x\_ \text{Symbol}] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[1/c^p \text{Int}[\text{ExpandIntegrand}[(b/2 - q/2 + cx)^p(b/2 + q/2 + cx)^p, x], x], x] /; \text{!FractionalPowerFactorQ}[q] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{IntegerQ}[p] \&\& \text{NiceSqrtQ}[b^2 - 4ac]$
1085.  $\text{Int}[(a\_ + (b\_)(x\_ ) + (c\_)(x\_ )^2)^{p\_}, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + bx + cx^2)^p, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{IntegerQ}[p] \&\& (\text{GtQ}[p, 0] \parallel \text{EqQ}[a, 0])$
1086.  $\text{Int}[(a\_ + (b\_)(x\_ ) + (c\_)(x\_ )^2)^{p\_}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(b + 2cx)(a + bx + cx^2)^{p+1}/((p+1)(b^2 - 4ac)), x] - \text{Simp}[2c((2p+3)/(p+1)(b^2 - 4ac)) \text{Int}[(a + bx + cx^2)^{p+1}, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{ILtQ}[p, -1]$
1087.  $\text{Int}[(a\_ + (b\_)(x\_ ) + (c\_)(x\_ )^2)^{p\_}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(b + 2cx)(a + bx + cx^2)^p/(2c(2p+1)), x] - \text{Simp}[p((b^2 - 4ac)/(2c(2p+1))) \text{Int}[(a + bx + cx^2)^{p-1}, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[p, 0] \&\& (\text{IntegerQ}[4p] \parallel \text{IntegerQ}[3p])$
1088.  $\text{Int}[(a\_ + (b\_)(x\_ ) + (c\_)(x\_ )^2)^{-3/2}, x\_ \text{Symbol}] \rightarrow \text{Simp}[-2((b + 2cx)/(b^2 - 4ac)\text{Sqrt}[a + bx + cx^2]), x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4ac, 0]$
1089.  $\text{Int}[(a\_ + (b\_)(x\_ ) + (c\_)(x\_ )^2)^{p\_}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(b + 2cx)(a + bx + cx^2)^{p+1}/((p+1)(b^2 - 4ac)), x] - \text{Simp}[2c((2p+3)/(p+1)(b^2 - 4ac)) \text{Int}[(a + bx + cx^2)^{p+1}, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{LtQ}[p, -1] \&\& (\text{IntegerQ}[4p] \parallel \text{IntegerQ}[3p])$
1090.  $\text{Int}[(a\_ + (b\_)(x\_ ) + (c\_)(x\_ )^2)^{p\_}, x\_ \text{Symbol}] \rightarrow \text{Simp}[1/(2c(-4c/(b^2 - 4ac)))^p \text{Subst}[\text{Int}[\text{Simp}[1 - x^2/(b^2 - 4ac), x]^p, x], x, b + 2cx], x] /; \text{FreeQ}[\{a, b, c, p\}, x] \&\& \text{GtQ}[4a - b^2/c, 0]$

1091.  $\text{Int}[1/\text{Sqrt}[(b\_.)*(x\_)+ (c\_.)*(x\_)^2], x\_Symbol] \rightarrow \text{Simp}[2 \text{ Subst}[\text{Int}[1/(1 - c*x^2), x], x, x/\text{Sqrt}[b*x + c*x^2]], x] /; \text{FreeQ}[\{b, c\}, x]$
1092.  $\text{Int}[1/\text{Sqrt}[(a\_)+ (b\_.)*(x\_)+ (c\_.)*(x\_)^2], x\_Symbol] \rightarrow \text{Simp}[2 \text{ Subst}[\text{Int}[1/(4*c - x^2), x], x, (b + 2*c*x)/\text{Sqrt}[a + b*x + c*x^2]], x] /; \text{FreeQ}[\{a, b, c\}, x]$
1093.  $\text{Int}[(b\_.)*(x\_)+ (c\_.)*(x\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(b*x + c*x^2)^p / ((-c)*((b*x + c*x^2)/b^2))^p \text{ Int}[((-c)*(x/b) - c^2*(x^2/b^2))^p, x], x] /; \text{FreeQ}[\{b, c\}, x] \&\& (\text{IntegerQ}[4*p] \parallel \text{IntegerQ}[3*p])$
1094.  $\text{Int}[(a\_)+ (b\_.)*(x\_)+ (c\_.)*(x\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[4*(\text{Sqrt}[(b + 2*c*x)^2]/(b + 2*c*x)) \text{ Subst}[\text{Int}[x^{(4*(p + 1) - 1)}/\text{Sqrt}[b^2 - 4*a*c + 4*c*x^4], x], x, (a + b*x + c*x^2)^{(1/4)}], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{IntegerQ}[4*p]$
1095.  $\text{Int}[(a\_)+ (b\_.)*(x\_)+ (c\_.)*(x\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[3*(\text{Sqrt}[(b + 2*c*x)^2]/(b + 2*c*x)) \text{ Subst}[\text{Int}[x^{(3*(p + 1) - 1)}/\text{Sqrt}[b^2 - 4*a*c + 4*c*x^3], x], x, (a + b*x + c*x^2)^{(1/3)}], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{IntegerQ}[3*p]$
1096.  $\text{Int}[(a\_)+ (b\_.)*(x\_)+ (c\_.)*(x\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(- (a + b*x + c*x^2)^{(p + 1)}) / (q*(p + 1)*((q - b - 2*c*x)/(2*q))^{(p + 1)}) * \text{Hypergeometric2F1}[-p, p + 1, p + 2, (b + q + 2*c*x)/(2*q)], x]] /; \text{FreeQ}[\{a, b, c, p\}, x] \&\& !\text{IntegerQ}[4*p] \&\& !\text{IntegerQ}[3*p]$
1097.  $\text{Int}[(a\_)+ (b\_.)*(u\_)+ (c\_.)*(u\_)^2]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(a + b*x + c*x^2)^p, x], x, u], x] /; \text{FreeQ}[\{a, b, c, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
1098.  $\text{Int}[(d\_)+ (e\_.)*(x\_)]^{(m\_)}*((a\_)+ (b\_.)*(x\_)+ (c\_.)*(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[1/c^p \text{ Int}[(d + e*x)^m*(b/2 + c*x)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$

1099.  $\text{Int}[(d + e \cdot x)^m \cdot (a + b \cdot x + c \cdot x^2)^p, x\_Symbol] \rightarrow \text{Simp}[e^m \cdot (a + b \cdot x + c \cdot x^2)^{p + (m + 1)/2} / (c^{(m + 1)/2} \cdot (m + 2 \cdot p + 1)), x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{EqQ}[2 \cdot c \cdot d - b \cdot e, 0] \ \&\& \ \text{IntegerQ}[(m - 1)/2]$
1100.  $\text{Int}[(d + e \cdot x) \cdot (a + b \cdot x + c \cdot x^2)^p, x\_Symbol] \rightarrow \text{Simp}[e \cdot (a + b \cdot x + c \cdot x^2)^{p + 1} / (2 \cdot c \cdot (p + 1)), x] + \text{Simp}[(2 \cdot c \cdot d - b \cdot e) / (2 \cdot c) \cdot \text{Int}[a + b \cdot x + c \cdot x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0]$
1101.  $\text{Int}[x^m \cdot (a + b \cdot x + c \cdot x^2)^p, x\_Symbol] \rightarrow \text{Simp}[(a + b \cdot x + c \cdot x^2)^{\text{FracPart}[p]} / (c^{\text{IntPart}[p]} \cdot (b/2 + c \cdot x)^{2 \cdot \text{FracPart}[p]}) \cdot \text{Int}[\text{ExpandLinearProduct}[(b/2 + c \cdot x)^{2 \cdot p}, x^m, b/2, c, x], x], x] /; \text{FreeQ}\{a, b, c, m, p\}, x \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{EqQ}[m - 2 \cdot p + 1, 0]$
1102.  $\text{Int}[(d + e \cdot x)^m \cdot (a + b \cdot x + c \cdot x^2)^p, x\_Symbol] \rightarrow \text{Simp}[(a + b \cdot x + c \cdot x^2)^{\text{FracPart}[p]} / (c^{\text{IntPart}[p]} \cdot (b/2 + c \cdot x)^{2 \cdot \text{FracPart}[p]}) \cdot \text{Int}[(d + e \cdot x)^m \cdot (b/2 + c \cdot x)^{2 \cdot p}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, p\}, x \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0]$
1103.  $\text{Int}[(d + e \cdot x) / (a + b \cdot x + c \cdot x^2), x\_Symbol] \rightarrow \text{Simp}[d \cdot (\text{Log}[\text{RemoveContent}[a + b \cdot x + c \cdot x^2, x]] / b), x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[2 \cdot c \cdot d - b \cdot e, 0]$
1104.  $\text{Int}[(d + e \cdot x) \cdot (a + b \cdot x + c \cdot x^2)^p, x\_Symbol] \rightarrow \text{Simp}[d \cdot (a + b \cdot x + c \cdot x^2)^{p + 1} / (b \cdot (p + 1)), x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x \ \&\& \ \text{EqQ}[2 \cdot c \cdot d - b \cdot e, 0]$
1105.  $\text{Int}[1 / ((d + e \cdot x) \cdot (a + b \cdot x + c \cdot x^2)), x\_Symbol] \rightarrow \text{Simp}[-4 \cdot b \cdot (c / (d \cdot (b^2 - 4 \cdot a \cdot c))) \cdot \text{Int}[1 / (b + 2 \cdot c \cdot x), x], x] + \text{Simp}[b^2 / (d^2 \cdot (b^2 - 4 \cdot a \cdot c)) \cdot \text{Int}[(d + e \cdot x) / (a + b \cdot x + c \cdot x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[2 \cdot c \cdot d - b \cdot e, 0]$
1106.  $\text{Int}[(d + e \cdot x)^m \cdot (a + b \cdot x + c \cdot x^2)^p, x\_Symbol] \rightarrow \text{Simp}[2 \cdot c \cdot (d + e \cdot x)^{m + 1} \cdot (a + b \cdot x + c \cdot x^2)^{p + 1} / ($



- $e*(p + 1)*(b^2 - 4*a*c))$ , x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[2\*c\*d - b\*e, 0] && EqQ[m + 2\*p + 3, 0]
1107. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_.), x\_Symbol] :> Int[ExpandIntegrand[(d + e\*x)^m\*(a + b\*x + c\*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[2\*c\*d - b\*e, 0] && IGtQ[p, 0] && !(EqQ[m, 3] && NeQ[p, 1])
1108. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[(d + e\*x)^(m + 1)\*((a + b\*x + c\*x^2)^p/(e\*(m + 1))), x] - Simp[b\*(p/(d\*e\*(m + 1))) Int[(d + e\*x)^(m + 2)\*(a + b\*x + c\*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2\*c\*d - b\*e, 0] && NeQ[m + 2\*p + 3, 0] && GtQ[p, 0] && LtQ[m, -1] && !(IntegerQ[m/2] && LtQ[m + 2\*p + 3, 0]) && IntegerQ[2\*p]
1109. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[(d + e\*x)^(m + 1)\*((a + b\*x + c\*x^2)^p/(e\*(m + 2\*p + 1))), x] - Simp[d\*p\*((b^2 - 4\*a\*c)/(b\*e\*(m + 2\*p + 1))) Int[(d + e\*x)^m\*(a + b\*x + c\*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[2\*c\*d - b\*e, 0] && NeQ[m + 2\*p + 3, 0] && GtQ[p, 0] && !LtQ[m, -1] && !(IGtQ[(m - 1)/2, 0] && (!IntegerQ[p] || LtQ[m, 2\*p])) && RationalQ[m] && IntegerQ[2\*p]
1110. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[d\*(d + e\*x)^(m - 1)\*((a + b\*x + c\*x^2)^(p + 1)/(b\*(p + 1))), x] - Simp[d\*e\*((m - 1)/(b\*(p + 1))) Int[(d + e\*x)^(m - 2)\*(a + b\*x + c\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2\*c\*d - b\*e, 0] && NeQ[m + 2\*p + 3, 0] && LtQ[p, -1] && GtQ[m, 1] && IntegerQ[2\*p]
1111. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[2\*c\*(d + e\*x)^(m + 1)\*((a + b\*x + c\*x^2)^(p + 1)/(e\*(p + 1)\*(b^2 - 4\*a\*c))), x] - Simp[2\*c\*e\*((m + 2\*p + 3)/(e\*(p + 1)\*(b^2 - 4\*a\*c))) Int[(d + e\*x)^m\*(a + b\*x + c\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[2\*c\*d - b\*e, 0] && NeQ[m + 2\*p + 3, 0] && LtQ[p, -1] && !GtQ[m, 1] && RationalQ[m] && IntegerQ[2\*p]

1112. `Int[1/(((d_) + (e_)*(x_))*Sqrt[(a_) + (b_)*(x_) + (c_)*(x_)^2]), x_Symbol] := Simp[4*c Subst[Int[1/(b^2*e - 4*a*c*e + 4*c*e*x^2), x], x, Sqrt[a + b*x + c*x^2]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2*c*d - b*e, 0]`
1113. `Int[1/(Sqrt[(d_) + (e_)*(x_)]*Sqrt[(a_) + (b_)*(x_) + (c_)*(x_)^2]), x_Symbol] := Simp[(4/e)*Sqrt[-c/(b^2 - 4*a*c)] Subst[Int[1/Sqrt[Simp[1 - b^2*(x^4/(d^2*(b^2 - 4*a*c))), x]], x], x, Sqrt[d + e*x]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2*c*d - b*e, 0] && LtQ[c/(b^2 - 4*a*c), 0]`
1114. `Int[Sqrt[(d_) + (e_)*(x_)]/Sqrt[(a_) + (b_)*(x_) + (c_)*(x_)^2], x_Symbol] := Simp[(4/e)*Sqrt[-c/(b^2 - 4*a*c)] Subst[Int[x^2/Sqrt[Simp[1 - b^2*(x^4/(d^2*(b^2 - 4*a*c))), x]], x], x, Sqrt[d + e*x]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2*c*d - b*e, 0] && LtQ[c/(b^2 - 4*a*c), 0]`
1115. `Int[((d_) + (e_)*(x_))^(m_)/Sqrt[(a_) + (b_)*(x_) + (c_)*(x_)^2], x_Symbol] := Simp[Sqrt[(-c)*((a + b*x + c*x^2)/(b^2 - 4*a*c))]/Sqrt[a + b*x + c*x^2] Int[(d + e*x)^m/Sqrt[(-a)*(c/(b^2 - 4*a*c)) - b*c*(x/(b^2 - 4*a*c)) - c^2*(x^2/(b^2 - 4*a*c))], x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2*c*d - b*e, 0] && EqQ[m^2, 1/4]`
1116. `Int[((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Simp[2*d*(d + e*x)^(m - 1)*((a + b*x + c*x^2)^(p + 1)/(b*(m + 2*p + 1))), x] + Simp[d^2*(m - 1)*((b^2 - 4*a*c)/(b^2*(m + 2*p + 1))) Int[(d + e*x)^(m - 2)*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[2*c*d - b*e, 0] && NeQ[m + 2*p + 3, 0] && GtQ[m, 1] && NeQ[m + 2*p + 1, 0] && (IntegerQ[2*p] || (IntegerQ[m] && RationalQ[p])) || OddQ[m]`
1117. `Int[((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Simp[-2*b*d*(d + e*x)^(m + 1)*((a + b*x + c*x^2)^(p + 1))/(d^2*(m + 1)*(b^2 - 4*a*c)), x] + Simp[b^2*((m + 2*p + 3)/(d^2*(m + 1)*(b^2 - 4*a*c))) Int[(d + e*x)^(m + 2)*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[2*c*d - b*e, 0] && NeQ[m + 2*p + 3, 0] && LtQ[m, -1] && (IntegerQ[2*p] || (IntegerQ[m] && RationalQ`

- [p]) || IntegerQ[(m + 2\*p + 3)/2])
1118. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_)  
, x\_Symbol] := Simp[1/e Subst[Int[x^m\*(a - b^2/(4\*c) + (c\*x^2)/e^2)^  
p, x], x, d + e\*x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[2\*c\*d  
- b\*e, 0]
1119. Int[((e\_)\*(x\_))^(m\_)\*((b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_), x\_Symbol] :=  
Simp[1/e^p Int[(e\*x)^(m + p)\*(b + c\*x)^p, x], x] /; FreeQ[{b, c, e,  
m}, x] && IntegerQ[p]
1120. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_)  
), x\_Symbol] := Int[(d + e\*x)^(m + p)\*(a/d + (c/e)\*x)^p, x] /; FreeQ[{  
a, b, c, d, e, m}, x] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && IntegerQ[p]  
&& (EqQ[m + p, 0] || EqQ[m + 2\*p + 2, 0])
1121. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_)  
), x\_Symbol] := Int[ExpandIntegrand[(d + e\*x)^(m + p)\*(a/d + (c/e)\*x)^  
p, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[c\*d^2 - b\*d\*e + a\*  
e^2, 0] && (IntegerQ[p] || (GtQ[a, 0] && GtQ[d, 0] && LtQ[c, 0]))
1122. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_)  
, x\_Symbol] := Simp[e\*(d + e\*x)^(m - 1)\*((a + b\*x + c\*x^2)^(p + 1)/(c\*  
(p + 1))), x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[c\*d^2 - b\*d\*e  
+ a\*e^2, 0] && EqQ[m + p, 0]
1123. Int[((d\_) + (e\_)\*(x\_))^(m\_)\*((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(p\_)  
, x\_Symbol] := Simp[e\*(d + e\*x)^m\*((a + b\*x + c\*x^2)^(p + 1)/((p + 1)\*  
(2\*c\*d - b\*e))), x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[c\*d^2 -  
b\*d\*e + a\*e^2, 0] && EqQ[m + 2\*p + 2, 0]
1124. Int[((d\_) + (e\_)\*(x\_))^(m\_)/((a\_) + (b\_)\*(x\_) + (c\_)\*(x\_)^2)^(3/  
2), x\_Symbol] := Simp[-2\*e\*(2\*c\*d - b\*e)^(m - 2)\*((d + e\*x)/(c^(m - 1)  
\*sqrt[a + b\*x + c\*x^2])), x] + Simp[e^2/c^(m - 1) Int[(1/sqrt[a + b\*  
x + c\*x^2])\*ExpandToSum[((2\*c\*d - b\*e)^(m - 1) - c^(m - 1)\*(d + e\*x)^(  
m - 1))/(c\*d - b\*e - c\*e\*x), x], x], x] /; FreeQ[{a, b, c, d, e}, x] &

- & EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && IGtQ[m, 0]
1125. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[-2\*e^(2\*m + 3)\*(Sqrt[a + b\*x + c\*x^2]/((-2\*c\*d + b\*e)^(m + 2)\*(d + e\*x))), x] - Simp[e^(2\*m + 2) Int[(1/Sqrt[a + b\*x + c\*x^2])\*ExpandToSum[((-2\*c\*d + b\*e)^(-m - 1) - ((-c)\*d + b\*e + c\*e\*x)^(-m - 1))/(d + e\*x), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && ILtQ[m, 0] && EqQ[m + p, -3/2]
1126. Int[((d\_.) + (e\_.)\*(x\_))^(2\*(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[e\*(d + e\*x)\*((a + b\*x + c\*x^2)^(p + 1)/(c\*(p + 1))), x] - Simp[e^2\*((p + 2)/(c\*(p + 1))) Int[(a + b\*x + c\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && LtQ[p, -1]
1127. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Int[(a + b\*x + c\*x^2)^(m + p)/(a/d + c\*(x/e))^m, x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && IntegerQ[m] && RationalQ[p] && (LtQ[0, -m, p] || LtQ[p, -m, 0]) && NeQ[m, 2] && NeQ[m, -1]
1128. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[e\*(d + e\*x)^(m - 1)\*((a + b\*x + c\*x^2)^(p + 1)/(c\*(m + 2\*p + 1))), x] + Simp[Simplify[m + p]\*((2\*c\*d - b\*e)/(c\*(m + 2\*p + 1))) Int[(d + e\*x)^(m - 1)\*(a + b\*x + c\*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && IGtQ[Simplify[m + p], 0]
1129. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[(-e)\*(d + e\*x)^m\*((a + b\*x + c\*x^2)^(p + 1)/((m + p + 1)\*(2\*c\*d - b\*e))), x] + Simp[c\*(Simplify[m + 2\*p + 2]/((m + p + 1)\*(2\*c\*d - b\*e))) Int[(d + e\*x)^(m + 1)\*(a + b\*x + c\*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && ILtQ[Simplify[m + 2\*p + 2], 0]
1130. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[(d + e\*x)^(m + 1)\*((a + b\*x + c\*x^2)^p/(e\*(m + p

- $$\text{Int}[(d + e*x)^{(m+2)}*(a + b*x + c*x^2)^{(p-1)}, x] - \text{Simp}[c*(p/(e^2*(m+p+1))) \text{Int}[(d + e*x)^{(m+2)}*(a + b*x + c*x^2)^{(p-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{GtQ}[p, 0] \&\& (\text{LtQ}[m, -2] \parallel \text{EqQ}[m + 2*p + 1, 0]) \&\& \text{NeQ}[m + p + 1, 0] \&\& \text{IntegerQ}[2*p]$$
1131. 
$$\text{Int}[(d + e*x)^{(m+1)}*(a + b*x + c*x^2)^p/(e*(m + 2*p + 1)), x] - \text{Simp}[p*((2*c*d - b*e)/(e^2*(m + 2*p + 1))) \text{Int}[(d + e*x)^{(m+1)}*(a + b*x + c*x^2)^{(p-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{GtQ}[p, 0] \&\& (\text{LeQ}[-2, m, 0] \parallel \text{EqQ}[m + p + 1, 0]) \&\& \text{NeQ}[m + 2*p + 1, 0] \&\& \text{IntegerQ}[2*p]$$
1132. 
$$\text{Int}[(2*c*d - b*e)*(d + e*x)^m*(a + b*x + c*x^2)^{(p+1)}/(e*(p+1)*(b^2 - 4*a*c)), x] - \text{Simp}[(2*c*d - b*e)*(m + 2*p + 2)/((p+1)*(b^2 - 4*a*c)) \text{Int}[(d + e*x)^{(m-1)}*(a + b*x + c*x^2)^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{LtQ}[p, -1] \&\& \text{LtQ}[0, m, 1] \&\& \text{IntegerQ}[2*p]$$
1133. 
$$\text{Int}[e*(d + e*x)^{(m-1)}*(a + b*x + c*x^2)^{(p+1)}/(c*(p+1)), x] - \text{Simp}[e^2*((m+p)/(c*(p+1))) \text{Int}[(d + e*x)^{(m-2)}*(a + b*x + c*x^2)^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 1] \&\& \text{IntegerQ}[2*p]$$
1134. 
$$\text{Int}[e*(d + e*x)^{(m-1)}*(a + b*x + c*x^2)^{(p+1)}/(c*(m + 2*p + 1)), x] + \text{Simp}[(m+p)*((2*c*d - b*e)/(c*(m + 2*p + 1))) \text{Int}[(d + e*x)^{(m-1)}*(a + b*x + c*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x] \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{GtQ}[m, 1] \&\& \text{NeQ}[m + 2*p + 1, 0] \&\& \text{IntegerQ}[2*p]$$
1135. 
$$\text{Int}[(-e)*(d + e*x)^m*(a + b*x + c*x^2)^{(p+1)}/((m+p+1)*(2*c*d - b*e)), x] + \text{Simp}[c*((m + 2*p + 2)/((m+p+1)*(2*c*d - b*e))) \text{Int}[(d + e*x)^{(m+1)}*(a + b*x + c*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x] \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{LtQ}[m, 0]$$

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&& NeQ[m + p + 1, 0] && IntegerQ[2*p]

1136. Int[1/(Sqrt[(d_.) + (e_.)*(x_)]*Sqrt[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2
]), x_Symbol] := Simp[2*e Subst[Int[1/(2*c*d - b*e + e^2*x^2), x], x
, Sqrt[a + b*x + c*x^2]/Sqrt[d + e*x]], x] /; FreeQ[{a, b, c, d, e}, x
] && EqQ[c*d^2 - b*d*e + a*e^2, 0]

1137. Int[((e_.)*(x_))^(m_)*((b_.)*(x_) + (c_.)*(x_)^2)^(p_), x_Symbol] := S
imp[(e*x)^(m*((b*x + c*x^2)^p/(x^(m + p)*(b + c*x)^p)) Int[x^(m + p)*
(b + c*x)^p, x], x] /; FreeQ[{b, c, e, m}, x]

1138. Int[((d_) + (e_.)*(x_))^(m_)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_),
x_Symbol] := Simp[d^m*((a + b*x + c*x^2)^FracPart[p]/((1 + e*(x/d))^F
racPart[p]*(a/d + (c*x)/e)^FracPart[p])) Int[(1 + e*(x/d))^(m + p)*(
a/d + (c/e)*x)^p, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[c*d^2
- b*d*e + a*e^2, 0] && (IntegerQ[m] || GtQ[d, 0]) && !(IGtQ[m, 0] &&
(IntegerQ[3*p] || IntegerQ[4*p]))

1139. Int[((d_) + (e_.)*(x_))^(m_)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_),
x_Symbol] := Simp[d^IntPart[m]*((d + e*x)^FracPart[m]/(1 + e*(x/d))^F
racPart[m]) Int[(1 + e*(x/d))^m*(a + b*x + c*x^2)^p, x], x] /; FreeQ
[{a, b, c, d, e, m}, x] && EqQ[c*d^2 - b*d*e + a*e^2, 0] && !(Integer
Q[m] || GtQ[d, 0])

1140. Int[((d_.) + (e_.)*(x_))^(m_.)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_
.), x_Symbol] := Int[ExpandIntegrand[(d + e*x)^m*(a + b*x + c*x^2)^p,
x], x] /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[p, 0]

1141. Int[((d_.) + (e_.)*(x_))^(m_.)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_
), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[1/c^p Int[Expand
Integrand[(d + e*x)^m*(b/2 - q/2 + c*x)^p*(b/2 + q/2 + c*x)^p, x], x],
x] /; EqQ[p, -1] || !FractionalPowerFactorQ[q] /; FreeQ[{a, b, c, d
, e}, x] && ILtQ[p, 0] && IntegerQ[m] && NiceSqrtQ[b^2 - 4*a*c]

1142. Int[((d_.) + (e_.)*(x_))/((a_) + (b_.)*(x_) + (c_.)*(x_)^2), x_Symbol]
:= Simp[(2*c*d - b*e)/(2*c) Int[1/(a + b*x + c*x^2), x], x] + Simp[

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- $$\frac{e}{2c} \int \frac{(b + 2cx)(a + bx + cx^2)}{(a + bx + cx^2)^2} dx, x \int ; \text{FreeQ}\{a, b, c, d, e\}, x]$$
1143. $\text{Int}[\frac{(d + ex)^m}{(a + bx + cx^2)}, x, x] \text{Sy} \text{mbol}] \text{:>} \text{Int}[\text{ExpandIntegrand}[\frac{(d + ex)^m}{(a + bx + cx^2)}, x], x] \text{; FreeQ}\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[m, 1]$
1144. $\text{Int}[\frac{1}{(d + ex)(a + bx + cx^2)}, x, x] \text{Sy} \text{mbol}] \text{:>} \text{Simp}[e \cdot (\text{Log}[\text{RemoveContent}[d + ex, x]]) / (cd^2 - bde + ae^2), x] + \text{Simp}[1 / (cd^2 - bde + ae^2) \int \frac{(cd - be - cex)}{(a + bx + cx^2)} dx, x] \text{; FreeQ}\{a, b, c, d, e\}, x]$
1145. $\text{Int}[\frac{(d + ex)^m}{(a + bx + cx^2)}, x, x] \text{Sy} \text{mbol}] \text{:>} \text{Simp}[e \cdot \frac{(d + ex)^{m+1}}{(m+1)(cd^2 - bde + ae^2)}, x] + \text{Simp}[1 / (cd^2 - bde + ae^2) \int \frac{(d + ex)^{m+1} (\text{Simp}[cd - be - cex, x])}{(a + bx + cx^2)} dx, x] \text{; FreeQ}\{a, b, c, d, e\}, x] \&\& \text{ILtQ}[m, -1]$
1146. $\text{Int}[\frac{(d + ex)^m}{(a + bx + cx^2)}, x, x] \text{Sy} \text{mbol}] \text{:>} \text{Simp}[e \cdot \frac{(d + ex)^{m-1}}{c(m-1)}, x] + \text{Simp}[1/c \int \frac{(d + ex)^{m-2} (\text{Simp}[cd^2 - ae^2 + e(2cd - be)x, x])}{(a + bx + cx^2)} dx, x] \text{; FreeQ}\{a, b, c, d, e\}, x] \&\& \text{GtQ}[m, 1]$
1147. $\text{Int}[\frac{(d + ex)^m}{(a + bx + cx^2)}, x, x] \text{Sy} \text{mbol}] \text{:>} \text{Simp}[e \cdot \frac{(d + ex)^{m+1}}{(m+1)(cd^2 - bde + ae^2)}, x] + \text{Simp}[1 / (cd^2 - bde + ae^2) \int \frac{(d + ex)^{m+1} (\text{Simp}[cd - be - cex, x])}{(a + bx + cx^2)} dx, x] \text{; FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{LtQ}[m, -1]$
1148. $\text{Int}[\frac{\sqrt{(d + ex)}}{(a + bx + cx^2)}, x, x] \text{Sy} \text{mbol}] \text{:>} \text{Simp}[2e \text{ Subst}[\int \frac{x^2}{(cd^2 - bde + ae^2 - (2cd - be)x^2 + cx^4)} dx, x, \sqrt{d + ex}], x] \text{; FreeQ}\{a, b, c, d, e\}, x]$
1149. $\text{Int}[\frac{1}{\sqrt{(d + ex)}(a + bx + cx^2)}, x, x] \text{Sy} \text{mbol}] \text{:>} \text{Simp}[2e \text{ Subst}[\int \frac{1}{(cd^2 - bde + ae^2 - (2cd -$

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b*e)*x^2 + c*x^4), x], x, Sqrt[d + e*x]], x] /; FreeQ[{a, b, c, d, e},
x]

1150. Int[((d_.) + (e_.)*(x_))^(m_)/((a_.) + (b_.)*(x_) + (c_.)*(x_)^2), x_S
ymbol] :> Int[ExpandIntegrand[(d + e*x)^m, 1/(a + b*x + c*x^2), x], x]
/; FreeQ[{a, b, c, d, e, m}, x] && !IntegerQ[2*m]

1151. Int[((d_.) + (e_.)*(x_))^(m_)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_),
x_Symbol] :> Simp[(d + e*x)^FracPart[p]*((a + b*x + c*x^2)^FracPart[p
]/(a*d + c*e*x^3)^FracPart[p]) Int[(d + e*x)^(m - p)*(a*d + c*e*x^3)
^p, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[b*d + a*e, 0] &&
EqQ[c*d + b*e, 0] && IGtQ[m - p + 1, 0] && !IntegerQ[p]

1152. Int[((d_.) + (e_.)*(x_))^(m_)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)
, x_Symbol] :> Simp[(-(d + e*x)^(m + 1))*(d*b - 2*a*e + (2*c*d - b*e)*
x)*((a + b*x + c*x^2)^p/(2*(m + 1)*(c*d^2 - b*d*e + a*e^2))), x] + Sim
p[p*((b^2 - 4*a*c)/(2*(m + 1)*(c*d^2 - b*d*e + a*e^2))) Int[(d + e*x)
^(m + 2)*(a + b*x + c*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d, e},
x] && EqQ[m + 2*p + 2, 0] && GtQ[p, 0]

1153. Int[((d_.) + (e_.)*(x_))^(m_)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)
, x_Symbol] :> Simp[(d + e*x)^(m - 1)*(d*b - 2*a*e + (2*c*d - b*e)*x)*
((a + b*x + c*x^2)^(p + 1)/((p + 1)*(b^2 - 4*a*c))), x] - Simp[2*(2*p
+ 3)*((c*d^2 - b*d*e + a*e^2)/((p + 1)*(b^2 - 4*a*c))) Int[(d + e*x)
^(m - 2)*(a + b*x + c*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e}, x
] && EqQ[m + 2*p + 2, 0] && LtQ[p, -1]

1154. Int[1/(((d_.) + (e_.)*(x_))*Sqrt[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]),
x_Symbol] :> Simp[-2 Subst[Int[1/(4*c*d^2 - 4*b*d*e + 4*a*e^2 - x^2)
, x], x, (2*a*e - b*d - (2*c*d - b*e)*x)/Sqrt[a + b*x + c*x^2]], x] /;
FreeQ[{a, b, c, d, e}, x]

1155. Int[((d_.) + (e_.)*(x_))^(m_)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)
, x_Symbol] :> With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[(-(b - q + 2*c*x))*
(d + e*x)^(m + 1)*((a + b*x + c*x^2)^p/((m + 1)*(2*c*d - b*e + e*q)*((
2*c*d - b*e + e*q)*((b + q + 2*c*x)/((2*c*d - b*e - e*q)*(b - q + 2*c*
x))))^p)*Hypergeometric2F1[m + 1, -p, m + 2, -4*c*q*((d + e*x)/((2*c*

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- $(d - b*e - e*q)*(b - q + 2*c*x))$ ], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[m + 2\*p + 2, 0]
1156. Int[((d\_.) + (e\_.)\*(x\_))^(m\_)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := Simp[(d + e\*x)^m\*(b + 2\*c\*x)\*((a + b\*x + c\*x^2)^(p + 1)/((p + 1)\*(b^2 - 4\*a\*c))), x] + Simp[m\*((2\*c\*d - b\*e)/((p + 1)\*(b^2 - 4\*a\*c)) Int[(d + e\*x)^(m - 1)\*(a + b\*x + c\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[m + 2\*p + 3, 0] && LtQ[p, -1]
1157. Int[((d\_.) + (e\_.)\*(x\_))^(m\_)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := Simp[e\*(d + e\*x)^(m + 1)\*((a + b\*x + c\*x^2)^(p + 1)/((m + 1)\*(c\*d^2 - b\*d\*e + a\*e^2))), x] + Simp[(2\*c\*d - b\*e)/(2\*(c\*d^2 - b\*d\*e + a\*e^2)) Int[(d + e\*x)^(m + 1)\*(a + b\*x + c\*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && EqQ[m + 2\*p + 3, 0]
1158. Int[((d\_.) + (e\_.)\*(x\_))/((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(3/2), x\_Symbol] := Simp[-2\*((b\*d - 2\*a\*e + (2\*c\*d - b\*e)\*x)/((b^2 - 4\*a\*c)\*Sqrt[a + b\*x + c\*x^2])), x] /; FreeQ[{a, b, c, d, e}, x]
1159. Int[((d\_.) + (e\_.)\*(x\_))\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := Simp[((b\*d - 2\*a\*e + (2\*c\*d - b\*e)\*x)/((p + 1)\*(b^2 - 4\*a\*c)))\*(a + b\*x + c\*x^2)^(p + 1), x] - Simp[(2\*p + 3)\*((2\*c\*d - b\*e)/((p + 1)\*(b^2 - 4\*a\*c)) Int[(a + b\*x + c\*x^2)^(p + 1), x], x] /; FreeQ[{a, b, c, d, e}, x] && LtQ[p, -1] && NeQ[p, -3/2]
1160. Int[((d\_.) + (e\_.)\*(x\_))\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := Simp[e\*((a + b\*x + c\*x^2)^(p + 1)/(2\*c\*(p + 1))), x] + Simp[(2\*c\*d - b\*e)/(2\*c) Int[(a + b\*x + c\*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, p}, x] && NeQ[p, -1]
1161. Int[((d\_.) + (e\_.)\*(x\_))^(m\_)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := Simp[(d + e\*x)^(m + 1)\*((a + b\*x + c\*x^2)^p/(e\*(m + 1))), x] - Simp[p/(e\*(m + 1)) Int[(d + e\*x)^(m + 1)\*(b + 2\*c\*x)\*(a + b\*x + c\*x^2)^(p - 1), x], x] /; FreeQ[{a, b, c, d, e, m}, x] && GtQ[p, 0] && (IntegerQ[p] || LtQ[m, -1]) && NeQ[m, -1] && !ILtQ[m + 2\*p + 1, 0] && IntQuadraticQ[a, b, c, d, e, m, p, x]

1162.  $\text{Int}[(d + e x)^m (a + b x + c x^2)^p]$   
 $\text{, x\_Symbol] } \rightarrow \text{Simp}[(d + e x)^{m+1} (a + b x + c x^2)^p / (e(m + 2p + 1))]$   
 $\text{, x] - Simp}[p / (e(m + 2p + 1)) \text{ Int}[(d + e x)^m \text{Simp}[b d - 2 a e + (2 c d - b e) x]$   
 $\text{, x}] * (a + b x + c x^2)^{p-1}, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, m\}, x\}$  &&  $\text{GtQ}[p, 0]$  &&  $\text{NeQ}[m + 2p + 1, 0]$  &&  $(\text{!RationalQ}[m] \mid \mid \text{LtQ}[m, 1])$  &&  $\text{!ILtQ}[m + 2p, 0]$  &&  $\text{IntQuadraticQ}[a, b, c, d, e, m, p, x]$
1163.  $\text{Int}[(d + e x)^m (a + b x + c x^2)^p]$   
 $\text{, x\_Symbol] } \rightarrow \text{Simp}[(d + e x)^m (b + 2 c x) (a + b x + c x^2)^{p+1} / ((p + 1)(b^2 - 4 a c))]$   
 $\text{, x] - Simp}[1 / ((p + 1)(b^2 - 4 a c)) \text{ Int}[(d + e x)^{m-1} (b e m + 2 c d (2 p + 3) + 2 c e (m + 2 p + 3) x) (a + b x + c x^2)^{p+1}, x]$   
 $\text{, x] /; FreeQ}\{a, b, c, d, e\}, x\}$  &&  $\text{LtQ}[p, -1]$  &&  $\text{GtQ}[m, 0]$  &&  $(\text{LtQ}[m, 1] \mid \mid (\text{ILtQ}[m + 2p + 3, 0] \text{ \&\& NeQ}[m, 2]))$   
&&  $\text{IntQuadraticQ}[a, b, c, d, e, m, p, x]$
1164.  $\text{Int}[(d + e x)^m (a + b x + c x^2)^p]$   
 $\text{, x\_Symbol] } \rightarrow \text{Simp}[(d + e x)^{m-1} (d b - 2 a e + (2 c d - b e) x) (a + b x + c x^2)^{p+1} / ((p + 1)(b^2 - 4 a c))]$   
 $\text{, x] + Simp}[1 / ((p + 1)(b^2 - 4 a c)) \text{ Int}[(d + e x)^{m-2} \text{Simp}[e (2 a e (m - 1) + b d (2 p - m + 4) - 2 c d^2 (2 p + 3) + e (b e - 2 d c) (m + 2 p + 2) x]$   
 $\text{, x}] * (a + b x + c x^2)^{p+1}, x]$  /;  $\text{FreeQ}\{a, b, c, d, e\}, x\}$  &&  $\text{LtQ}[p, -1]$  &&  $\text{GtQ}[m, 1]$  &&  $\text{IntQuadraticQ}[a, b, c, d, e, m, p, x]$
1165.  $\text{Int}[(d + e x)^m (a + b x + c x^2)^p]$   
 $\text{, x\_Symbol] } \rightarrow \text{Simp}[(d + e x)^{m+1} (b c d - b^2 e + 2 a c e + c (2 c d - b e) x) (a + b x + c x^2)^{p+1} / ((p + 1)(b^2 - 4 a c)(c d^2 - b d e + a e^2))]$   
 $\text{, x] + Simp}[1 / ((p + 1)(b^2 - 4 a c)(c d^2 - b d e + a e^2)) \text{ Int}[(d + e x)^m \text{Simp}[b c d e (2 p - m + 2) + b^2 e^2 (m + p + 2) - 2 c^2 d^2 (2 p + 3) - 2 a c e^2 (m + 2 p + 3) - c e (2 c d - b e) (m + 2 p + 4) x]$   
 $\text{, x}] * (a + b x + c x^2)^{p+1}, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, m\}, x\}$  &&  $\text{LtQ}[p, -1]$  &&  $\text{IntQuadraticQ}[a, b, c, d, e, m, p, x]$
1166.  $\text{Int}[(d + e x)^m (a + b x + c x^2)^p]$   
 $\text{, x\_Symbol] } \rightarrow \text{Simp}[e (d + e x)^{m-1} (a + b x + c x^2)^{p+1} / (c (m + 2 p + 1))]$   
 $\text{, x] + Simp}[1 / (c (m + 2 p + 1)) \text{ Int}[(d + e x)^{m-2} (d + e x)^m (a + b x + c x^2)^p]$

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*Simp[c*d^2*(m + 2*p + 1) - e*(a*e*(m - 1) + b*d*(p + 1)) + e*(2*c*d -
  b*e)*(m + p)*x, x]*(a + b*x + c*x^2)^p, x] /; FreeQ[{a, b, c, d,
  e, m, p}, x] && If[RationalQ[m], GtQ[m, 1], SumSimplerQ[m, -2]] && NeQ
[m + 2*p + 1, 0] && IntQuadraticQ[a, b, c, d, e, m, p, x]

1167. Int[((d_.) + (e_.)*(x_))^(m_)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)
, x_Symbol] := Simp[e*(d + e*x)^(m + 1)*((a + b*x + c*x^2)^(p + 1)/((m
+ 1)*(c*d^2 - b*d*e + a*e^2))), x] + Simp[1/((m + 1)*(c*d^2 - b*d*e +
a*e^2)) Int[(d + e*x)^(m + 1)*Simp[c*d*(m + 1) - b*e*(m + p + 2) -
c*e*(m + 2*p + 3)*x, x]*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b, c,
d, e, m, p}, x] && NeQ[m, -1] && ((LtQ[m, -1] && IntQuadraticQ[a, b,
c, d, e, m, p, x]) || (SumSimplerQ[m, 1] && IntegerQ[p]) || ILtQ[Simpl
ify[m + 2*p + 3], 0])

1168. Int[((d_.) + (e_.)*(x_))^(m_)/Sqrt[(b_.)*(x_) + (c_.)*(x_)^2], x_Symbo
l] := Int[(d + e*x)^m/(Sqrt[b*x]*Sqrt[1 + (c/b)*x]), x] /; FreeQ[{b, c
, d, e}, x] && NeQ[c*d - b*e, 0] && EqQ[m^2, 1/4] && LtQ[c, 0] && Rati
onalQ[b]

1169. Int[((d_.) + (e_.)*(x_))^(m_)/Sqrt[(b_.)*(x_) + (c_.)*(x_)^2], x_Symbo
l] := Simp[Sqrt[x]*(Sqrt[b + c*x]/Sqrt[b*x + c*x^2]) Int[(d + e*x)^m
/(Sqrt[x]*Sqrt[b + c*x]), x], x] /; FreeQ[{b, c, d, e}, x] && NeQ[c*d
- b*e, 0] && EqQ[m^2, 1/4]

1170. Int[(x_)^(m_)/Sqrt[(a_) + (b_.)*(x_) + (c_.)*(x_)^2], x_Symbol] := Sim
p[2 Subst[Int[x^(2*m + 1)/Sqrt[a + b*x^2 + c*x^4], x], x, Sqrt[x]],
x] /; FreeQ[{a, b, c}, x] && EqQ[m^2, 1/4]

1171. Int[((e_.)*(x_))^(m_)/Sqrt[(a_) + (b_.)*(x_) + (c_.)*(x_)^2], x_Symbol]
:= Simp[(e*x)^m/x^m Int[x^m/Sqrt[a + b*x + c*x^2], x], x] /; FreeQ[
{a, b, c, e}, x] && EqQ[m^2, 1/4]

1172. Int[((d_.) + (e_.)*(x_))^(m_)/Sqrt[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2],
x_Symbol] := Simp[2*Rt[b^2 - 4*a*c, 2]*(d + e*x)^m*(Sqrt[(-c)*((a + b
*x + c*x^2)/(b^2 - 4*a*c))]/(c*Sqrt[a + b*x + c*x^2]*(2*c*((d + e*x)/(
2*c*d - b*e - e*Rt[b^2 - 4*a*c, 2]))))^m) Subst[Int[(1 + 2*e*Rt[b^2
- 4*a*c, 2]*(x^2/(2*c*d - b*e - e*Rt[b^2 - 4*a*c, 2])))^m/Sqrt[1 - x^2

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], x], x, Sqrt[(b + Rt[b^2 - 4*a*c, 2] + 2*c*x)/(2*Rt[b^2 - 4*a*c, 2])
]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[m^2, 1/4]

1173. Int[((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)/((d_.) + (e_.)*(x_)), x_S
ymbol] :> Simp[1/(-4*(c/(b^2 - 4*a*c)))^p Subst[Int[Simp[1 - x^2/(b^
2 - 4*a*c), x]^p/Simp[2*c*d - b*e + e*x, x], x], x, b + 2*c*x], x] /;
FreeQ[{a, b, c, d, e, p}, x] && GtQ[4*a - b^2/c, 0] && IntegerQ[4*p]

1174. Int[((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)/((d_.) + (e_.)*(x_)), x_S
ymbol] :> Simp[(a + b*x + c*x^2)^p/((-c)*((a + b*x + c*x^2)/(b^2 - 4*a
c)))^p Int[((-a)(c/(b^2 - 4*a*c)) - b*c*(x/(b^2 - 4*a*c)) - c^2*(x
^2/(b^2 - 4*a*c)))^p/(d + e*x), x], x] /; FreeQ[{a, b, c, d, e, p}, x]
&& !GtQ[4*a - b^2/c, 0] && IntegerQ[4*p]

1175. Int[1/(((d_.) + (e_.)*(x_))*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(1/3)),
x_Symbol] :> With[{q = Rt[3*c*e^2*(2*c*d - b*e), 3]}, Simp[(-Sqrt[3])
*c*e*(ArcTan[1/Sqrt[3] + 2*((c*d - b*e - c*e*x)/(Sqrt[3]*q*(a + b*x +
c*x^2)^(1/3)))]/q^2), x] + (-Simp[3*c*e*(Log[d + e*x]/(2*q^2)), x] + S
imp[3*c*e*(Log[c*d - b*e - c*e*x - q*(a + b*x + c*x^2)^(1/3)]/(2*q^2))
, x]]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d^2 - b*c*d*e + b^2*e^2
- 3*a*c*e^2, 0] && PosQ[c*e^2*(2*c*d - b*e)]

1176. Int[1/(((d_.) + (e_.)*(x_))*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(1/3)),
x_Symbol] :> With[{q = Rt[-3*c*e^2*(2*c*d - b*e), 3]}, Simp[(-Sqrt[3]
)*c*e*(ArcTan[1/Sqrt[3] - 2*((c*d - b*e - c*e*x)/(Sqrt[3]*q*(a + b*x +
c*x^2)^(1/3)))]/q^2), x] + (-Simp[3*c*e*(Log[d + e*x]/(2*q^2)), x] +
Simp[3*c*e*(Log[c*d - b*e - c*e*x + q*(a + b*x + c*x^2)^(1/3)]/(2*q^2)
), x]]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d^2 - b*c*d*e + b^2*e^
2 - 3*a*c*e^2, 0] && NegQ[c*e^2*(2*c*d - b*e)]

1177. Int[1/(((d_.) + (e_.)*(x_))*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(1/3)),
x_Symbol] :> With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[(b + q + 2*c*x)^(1/3)
)*((b - q + 2*c*x)^(1/3)/(a + b*x + c*x^2)^(1/3)) Int[1/((d + e*x)*(
b + q + 2*c*x)^(1/3)*(b - q + 2*c*x)^(1/3)), x], x] /; FreeQ[{a, b, c
, d, e}, x] && EqQ[c^2*d^2 - b*c*d*e - 2*b^2*e^2 + 9*a*c*e^2, 0]

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1178.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}$   
 $, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[\left(-\frac{1}{d + ex}\right)^{2p}$   
 $\left((a + bx + cx^2)^p / \left(e \left(\frac{b - q + 2cx}{2c(d + ex)}\right)\right)^p \left(e \left(\frac{b + q + 2cx}{2c(d + ex)}\right)\right)^p\right)$   
 $\text{Subst}[\text{Int}[x^{-m - 2(p + 1)}]$   
 $\text{Simp}[1 - (d - e\left(\frac{b - q}{2c}\right))x, x]^p \text{Simp}[1 - (d - e\left(\frac{b + q}{2c}\right))x, x]^p, x], x, 1/(d + ex)], x] /;$   
 $\text{FreeQ}[\{a, b, c, d, e, p\}, x]$   
 $\&\& \text{ILtQ}[m, 0]$
1179.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}$   
 $, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[(a + bx + cx^2)^p$   
 $/ \left(e \left(1 - \frac{d + ex}{d - e\left(\frac{b - q}{2c}\right)}\right)\right)^p \left(1 - \frac{d + ex}{d - e\left(\frac{b + q}{2c}\right)}\right)^p\right)$   
 $\text{Subst}[\text{Int}[x^m \text{Simp}[1 - x/(d - e\left(\frac{b - q}{2c}\right))],$   
 $x]^p \text{Simp}[1 - x/(d - e\left(\frac{b + q}{2c}\right))], x]^p, x], x, d + ex], x] /;$   
 $\text{FreeQ}[\{a, b, c, d, e, m, p\}, x]$
1180.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(u_{\cdot})\right)^{m_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})(u_{\cdot}) + (c_{\cdot})(u_{\cdot})^2\right)^{p_{\cdot}}$   
 $, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1]$   
 $\text{Subst}[\text{Int}[(d + ex)^m (a + bx + cx^2)^p, x], x, u], x] /;$   
 $\text{FreeQ}[\{a, b, c, d, e, m, p\}, x]$   
 $\&\& \text{LinearQ}[u, x]$   
 $\&\& \text{NeQ}[u, x]$
1181.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{n_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})\right)$   
 $\left(x_{\cdot}\right) + (c_{\cdot})(x_{\cdot})^2)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(g/e)^n$   
 $\text{Int}[(d + ex)^{m+n} (a + bx + cx^2)^p, x], x] /;$   
 $\text{FreeQ}[\{a, b, c, d, e, f, g, m, p\}, x]$   
 $\&\& \text{EqQ}[ef - dg, 0]$   
 $\&\& \text{IntegerQ}[n]$   
 $\&\& \text{!(IntegerQ}[m] \&\& \text{SimplerQ}[f + gx, d + ex])]$
1182.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{n_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})\right)$   
 $\left(x_{\cdot}\right) + (c_{\cdot})(x_{\cdot})^2)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e/g)^m$   
 $\text{Int}[(f + gx)^{m+n} (a + bx + cx^2)^p, x], x] /;$   
 $\text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x]$   
 $\&\& \text{EqQ}[ef - dg, 0]$   
 $\&\& \text{GtQ}[e/g, 0]$
1183.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{n_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})\right)$   
 $\left(x_{\cdot}\right) + (c_{\cdot})(x_{\cdot})^2)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + ex)^m / (f + gx)^m$   
 $\text{Int}[(f + gx)^{m+n} (a + bx + cx^2)^p, x], x] /;$   
 $\text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x]$   
 $\&\& \text{EqQ}[ef - dg, 0]$

1184.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{n_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{1}{c^p} \text{Int}[(d + e*x)^m (f + g*x)^n (b/2 + c*x)^{2*p}], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n\}, x\} \ \&\& \ \text{EqQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IntegerQ}[p]$
1185.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[(-f)*g*(d + e*x)^{m+1} \left((a + b*x + c*x^2)^{p+1} / (b*(p+1)*(e*f - d*g))\right), x\right] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x\} \ \&\& \ \text{EqQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{EqQ}[m + 2*p + 3, 0] \ \&\& \ \text{EqQ}[2*c*f - b*g, 0]$
1186.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[-2*c*(e*f - d*g)*(d + e*x)^{m+1} \left((a + b*x + c*x^2)^{p+1} / ((p+1)*(2*c*d - b*e)^2)\right), x\right] + \text{Simp}\left[\frac{(2*c*f - b*g)}{(2*c*d - b*e)} \text{Int}[(d + e*x)^{m+1} (a + b*x + c*x^2)^p, x], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x\} \ \&\& \ \text{EqQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{EqQ}[m + 2*p + 3, 0] \ \&\& \ \text{NeQ}[2*c*f - b*g, 0] \ \&\& \ \text{NeQ}[2*c*d - b*e, 0]$
1187.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{n_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[(a + b*x + c*x^2)^{\text{FracPart}[p]} / (c^{\text{IntPart}[p]} (b/2 + c*x)^{2*\text{FracPart}[p]}) \text{Int}[(d + e*x)^m (f + g*x)^n (b/2 + c*x)^{2*p}], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x\} \ \&\& \ \text{EqQ}[b^2 - 4*a*c, 0] \ \&\& \ !\text{IntegerQ}[p]$
1188.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{n_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Int}[(d*f + e*g*x^2)^m (a + b*x + c*x^2)^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x\} \ \&\& \ \text{EqQ}[m, n] \ \&\& \ \text{EqQ}[e*f + d*g, 0] \ \&\& \ (\text{IntegerQ}[m] \ || \ (\text{GtQ}[d, 0] \ \&\& \ \text{GtQ}[f, 0]))$
1189.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right)^{n_{\cdot}} \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}\left[b \text{Int}[x*(d + e*x)^m (f + g*x)^n, x] + \text{Int}[(d + e*x)^m (f + g*x)^n (a + c*x^2), x], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n\}, x\} \ \&\& \ \text{EqQ}[m, n] \ \&\& \ \text{EqQ}[e*f + d*g, 0]$
1190.  $\text{Int}[(\text{Sqrt}[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]) * \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})]) / ((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[e*(g/c) \text{Int}[1/(\text{Sqrt}[d + e*x]^*$

- $\text{Sqrt}[f + g*x]), x], x] + \text{Simp}[1/c \text{ Int}[(c*d*f - a*e*g - b*e*g*x)/(Sqr$   
 $t[d + e*x]*\text{Sqrt}[f + g*x]*(a + b*x + c*x^2)), x], x] /; \text{FreeQ}[\{a, b, c,$   
 $d, e, f, g\}, x] \&\& \text{EqQ}[e*f + d*g, 0]$
1191.  $\text{Int}[((d_) + (e_)*(x_))^{(m_)}*((f_) + (g_)*(x_))^{(n_)}*((a_) + (b_)$   
 $*(x_) + (c_)*(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(d + e*x)^{\text{FracPart}[m]}*(($   
 $f + g*x)^{\text{FracPart}[m]}/(d*f + e*g*x^2)^{\text{FracPart}[m]} \text{ Int}[(d*f + e*g*x^2$   
 $)^m*(a + b*x + c*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p$   
 $\}, x] \&\& \text{EqQ}[m, n] \&\& \text{EqQ}[e*f + d*g, 0] \&\& !(\text{EqQ}[p, 2] \&\& \text{LtQ}[m, -1])$
1192.  $\text{Int}[((d_) + (e_)*(x_))^{(m_)}*((f_) + (g_)*(x_))^{(n_)}*((a_) + (b_)$   
 $*(x_) + (c_)*(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[2/e^{(n + 2*p + 1)} \text{ Sub$   
 $st[\text{Int}[x^{(2*m + 1)}*(e*f - d*g + g*x^2)^n*(c*d^2 - b*d*e + a*e^2 - (2*c$   
 $*d - b*e)*x^2 + c*x^4)^p, x], x, \text{Sqrt}[d + e*x]], x] /; \text{FreeQ}[\{a, b, c,$   
 $d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{IntegerQ}[m + 1/2]$
1193.  $\text{Int}[((d_) + (e_)*(x_))^{(m_)}*((f_) + (g_)*(x_))^{(n_)}*((a_) + (b_)$   
 $*(x_) + (c_)*(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{With}[\{Qx = \text{PolynomialQuotien$   
 $t}[(a + b*x + c*x^2)^p, d + e*x, x], R = \text{PolynomialRemainder}[(a + b*x +$   
 $c*x^2)^p, d + e*x, x]\}, \text{Simp}[R*(d + e*x)^{(m + 1)}*((f + g*x)^{(n + 1)}/($   
 $(m + 1)*(e*f - d*g))], x] + \text{Simp}[1/((m + 1)*(e*f - d*g)) \text{ Int}[(d + e*$   
 $x)^{(m + 1)}*(f + g*x)^n*\text{ExpandToSum}[(m + 1)*(e*f - d*g)*Qx - g*R*(m + n$   
 $+ 2), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n\}, x] \&\& \text{IGtQ}[p, 0]$   
 $\&\& \text{ILtQ}[2*m, -2] \&\& !\text{IntegerQ}[n] \&\& !(\text{EqQ}[m, -2] \&\& \text{EqQ}[p, 1] \&\& \text{Eq$   
 $Q[2*c*d - b*e, 0])$
1194.  $\text{Int}[((d_) + (e_)*(x_))^{(m_)}*((f_) + (g_)*(x_))^{(n_)}*((a_) + (b_)$   
 $*(x_) + (c_)*(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[c^p*(d + e*x)^{(m + 2*p)}$   
 $*((f + g*x)^{(n + 1)}/(g*e^{(2*p)}*(m + n + 2*p + 1))), x] + \text{Simp}[1/(g*e^{($   
 $2*p)}*(m + n + 2*p + 1)) \text{ Int}[(d + e*x)^m*(f + g*x)^n*\text{ExpandToSum}[g*(m$   
 $+ n + 2*p + 1)*(e^{(2*p)}*(a + b*x + c*x^2)^p - c^p*(d + e*x)^{(2*p)}) -$   
 $c^p*(e*f - d*g)*(m + 2*p)*(d + e*x)^{(2*p - 1)}, x], x], x] /; \text{FreeQ}[\{a,$   
 $b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& !\text{IntegerQ}[m] \&\& !\text{IntegerQ}[n]$   
 $\&\& \text{NeQ}[m + n + 2*p + 1, 0]$
1195.  $\text{Int}[((d_) + (e_)*(x_))^{(m_)}*((f_) + (g_)*(x_))^{(n_)}*((a_) + (b_)$   
 $*(x_) + (c_)*(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e$

- $x^m (f + gx)^n (a + bx + cx^2)^p$ ,  $x$ ] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && IGtQ[p, 0]
1196. Int[(((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_)))/((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2), x\_Symbol] := Simp[g\*((d + e\*x)^m/(c\*m)), x] + Simp[1/c Int[(d + e\*x)^(m - 1)\*(Simp[c\*d\*f - a\*e\*g + (g\*c\*d - b\*e\*g + c\*e\*f)\*x, x]/(a + b\*x + c\*x^2)), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && FractionQ[m] && GtQ[m, 0]
1197. Int[((f\_.) + (g\_.)\*(x\_))/(Sqrt[(d\_.) + (e\_.)\*(x\_)]\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)), x\_Symbol] := Simp[2 Subst[Int[(e\*f - d\*g + g\*x^2)/(c\*d^2 - b\*d\*e + a\*e^2 - (2\*c\*d - b\*e)\*x^2 + c\*x^4), x], x, Sqrt[d + e\*x]], x] /; FreeQ[{a, b, c, d, e, f, g}, x]
1198. Int[(((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_)))/((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2), x\_Symbol] := Simp[(e\*f - d\*g)\*((d + e\*x)^(m + 1)/((m + 1)\*(c\*d^2 - b\*d\*e + a\*e^2))), x] + Simp[1/(c\*d^2 - b\*d\*e + a\*e^2) Int[(d + e\*x)^(m + 1)\*(Simp[c\*d\*f - f\*b\*e + a\*e\*g - c\*(e\*f - d\*g)\*x, x]/(a + b\*x + c\*x^2)), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && FractionQ[m] && LtQ[m, -1]
1199. Int[(((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_))/((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2), x\_Symbol] := With[{q = Denominator[m]}, Simp[q/e Subst[Int[ExpandIntegrand[x^(q\*(m + 1) - 1)\*((e\*f - d\*g)/e + g\*(x^q/e))^n/((c\*d^2 - b\*d\*e + a\*e^2)/e^2 - (2\*c\*d - b\*e)\*(x^q/e^2) + c\*(x^(2\*q)/e^2))], x], x], x, (d + e\*x)^(1/q)], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && IntegerQ[n] && FractionQ[m]
1200. Int[(((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_))/((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2), x\_Symbol] := Int[ExpandIntegrand[(d + e\*x)^m\*((f + g\*x)^n/(a + b\*x + c\*x^2)), x], x] /; FreeQ[{a, b, c, d, e, f, g, m}, x] && IntegersQ[n]
1201. Int[(((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_))/((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2), x\_Symbol] := Simp[g/c^2 Int[Simp[2\*c\*e\*f + c\*d\*g - b\*e\*g + c\*e\*g\*x, x]\*(d + e\*x)^(m - 1)\*(f + g\*x)^(n - 2), x], x] + Simp[1/c^2 Int[Simp[c^2\*d\*f^2 - 2\*a\*c\*e\*f\*g - a\*c\*d\*g^2 + a\*b\*e\*



- $$g^2 + (c^2 e f^2 + 2 c^2 d f g - 2 b c e f g - b c d g^2 + b^2 e g^2 - a c e g^2) x, x] * (d + e x)^{m-1} * ((f + g x)^{n-2} / (a + b x + c x^2)), x, x] /;$$
`FreeQ[{a, b, c, d, e, f, g}, x] && !IntegerQ[m] && !IntegerQ[n] && GtQ[m, 0] && GtQ[n, 1]`
1202. `Int[(((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.))/((a_.) + (b_.)*(x_) + (c_.)*(x_)^2), x_Symbol] := Simp[e*(g/c) Int[(d + e*x)^(m - 1)*(f + g*x)^(n - 1), x], x] + Simp[1/c Int[Simp[c*d*f - a*e*g + (c*e*f + c*d*g - b*e*g)*x, x]*(d + e*x)^(m - 1)*((f + g*x)^(n - 1)/(a + b*x + c*x^2)), x], x] /;` `FreeQ[{a, b, c, d, e, f, g}, x] && !IntegerQ[m] && !IntegerQ[n] && GtQ[m, 0] && GtQ[n, 0]`
1203. `Int[(((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.))/((a_.) + (b_.)*(x_) + (c_.)*(x_)^2), x_Symbol] := Simp[(-g)*((e*f - d*g)/(c*f^2 - b*f*g + a*g^2)) Int[(d + e*x)^(m - 1)*(f + g*x)^n, x], x] + Simp[1/(c*f^2 - b*f*g + a*g^2) Int[Simp[c*d*f - b*d*g + a*e*g + c*(e*f - d*g)*x, x]*(d + e*x)^(m - 1)*((f + g*x)^(n + 1)/(a + b*x + c*x^2)), x], x] /;` `FreeQ[{a, b, c, d, e, f, g}, x] && !IntegerQ[m] && !IntegerQ[n] && GtQ[m, 0] && LtQ[n, -1]`
1204. `Int[((d_.) + (e_.)*(x_))^(m_.)/(Sqrt[(f_.) + (g_.)*(x_)]*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)), x_Symbol] := Int[ExpandIntegrand[1/(Sqrt[d + e*x]*Sqrt[f + g*x]), (d + e*x)^(m + 1/2)/(a + b*x + c*x^2), x], x] /;` `FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[m + 1/2, 0]`
1205. `Int[(((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.))/((a_.) + (b_.)*(x_) + (c_.)*(x_)^2), x_Symbol] := Int[ExpandIntegrand[(d + e*x)^m*(f + g*x)^n, 1/(a + b*x + c*x^2), x], x] /;` `FreeQ[{a, b, c, d, e, f, g, m, n}, x] && !IntegerQ[m] && !IntegerQ[n]`
1206. `Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.)*((b_.)*(x_) + (c_.)*(x_)^2)^(p_.), x_Symbol] := Int[ExpandIntegrand[x^p*(d + e*x)^m*(f + g*x)^n*(b + c*x)^p, x], x] /;` `FreeQ[{b, c, d, e, f, g}, x] && ILtQ[p, -1] && IntegersQ[m, n]`
1207. `Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_.), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2`

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]], Simp[1/c^p Int[ExpandIntegrand[(d + e*x)^m*(f + g*x)^n*(b/2 - q/
2 + c*x)^p*(b/2 + q/2 + c*x)^p, x], x] /; !FractionalPowerFactorQ
[q]] /; FreeQ[{a, b, c, d, e, f, g}, x] && ILtQ[p, -1] && IntegersQ[m,
n] && NiceSqrtQ[b^2 - 4*a*c]

1208. Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^2*((a_.) + (b_.)*(
x_) + (c_.)*(x_)^2)^(p_.), x_Symbol] := Simp[g^2*(d + e*x)^(m + 1)*((a
+ b*x + c*x^2)^(p + 1)/(c*e*(m + 2*p + 3))), x] /; FreeQ[{a, b, c, d,
e, f, g, m, p}, x] && EqQ[b*e*g*(m + p + 2) + 2*c*(d*g*(p + 1) - e*f*
(m + 2*p + 3)), 0] && EqQ[e*(c*f^2 - b*f*g + a*g^2)*(m + 1) + (2*c*f -
b*g)*(e*f - d*g)*(p + 1), 0] && NeQ[m + 2*p + 3, 0]

1209. Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.)*((a_.) + (b_.)
*(x_) + (c_.)*(x_)^2)^(p_.), x_Symbol] := Int[(f + g*x)^n*(a*d + c*e*x^
3)^p, x] /; FreeQ[{a, b, c, d, e, f, g, m, p}, x] && EqQ[b*d + a*e, 0]
&& EqQ[c*d + b*e, 0] && EqQ[m, p] && ILtQ[p, -1]

1210. Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.)*((a_.) + (b_.)
*(x_) + (c_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(d + e*x)^FracPart[p]*((
a + b*x + c*x^2)^FracPart[p]/(a*d + c*e*x^3)^FracPart[p]) Int[(f + g
*x)^n*(a*d + c*e*x^3)^p, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p},
x] && EqQ[b*d + a*e, 0] && EqQ[c*d + b*e, 0] && EqQ[m, p]

1211. Int[(((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.))/((a_.) + (
b_.)*(x_) + (c_.)*(x_)^2)^(3/2), x_Symbol] := Simp[-2*(2*c*d - b*e)^(m
- 2)*(c*(e*f + d*g) - b*e*g)^n*((d + e*x)/(c^(m + n - 1)*e^(n - 1)*Sq
rt[a + b*x + c*x^2])), x] + Simp[1/(c^(m + n - 1)*e^(n - 2)) Int[Exp
andToSum[((2*c*d - b*e)^(m - 1)*(c*(e*f + d*g) - b*e*g)^n - c^(m + n -
1)*e^n*(d + e*x)^(m - 1)*(f + g*x)^n)/(c*d - b*e - c*e*x), x]/Sqrt[a
+ b*x + c*x^2], x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c*d^2
- b*d*e + a*e^2, 0] && IGtQ[m, 0] && IGtQ[n, 0]

1212. Int[((x_)^(n_.)*((d_.) + (e_.)*(x_))^(m_.))/((a_.) + (b_.)*(x_) + (c_.)
*(x_)^2)^(3/2), x_Symbol] := Simp[-2*(2*c*d - b*e)^(m - 2)*(c*d - b*e)
^n*((d + e*x)/(c^(m + n - 1)*e^(n - 1)*Sqrt[a + b*x + c*x^2])), x] - S
imp[e^2/c^(m + n - 1) Int[ExpandToSum[(c^(m + n - 1)*(d + e*x)^(m -
1) - ((c*d - b*e)^n*(2*c*d - b*e)^(m - 1))/(e^n*x^n))/(c*d - b*e - c*e

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- x), x]/(Sqrt[$a + b*x + c*x^2$]/ x^n), x , x] /; FreeQ[{ a, b, c, d, e }, x] && EqQ[$c*d^2 - b*d*e + a*e^2, 0$] && IGtQ[$m, 0$] && ILtQ[$n, 0$]
1213. Int[(x)^(n)*((d) + (e)*(x))^(m)*((a) + (b)*(x) + (c)*(x)^2)^(p), x _Symbol] :> Simp[-2*(- d)^ n * e ^(2* $m - n + 3$)*(Sqrt[$a + b*x + c*x^2$]/((-2* $c*d + b*e$)^($m + 2$)*($d + e*x$))), x] - Simp[e ^(2* $m - n + 2$) Int[ExpandToSum[(- d)^ n *(-2* $c*d + b*e$)^(- $m - 1$) - e^n*x^n *((- c)* $d + b*e + c*e*x$)^(- $m - 1$))/($d + e*x$), x]/Sqrt[$a + b*x + c*x^2$], x], x] /; FreeQ[{ a, b, c, d, e }, x] && EqQ[$c*d^2 - b*d*e + a*e^2, 0$] && ILtQ[$m, 0$] && IGtQ[$n, 0$] && EqQ[$m + p, -3/2$]
1214. Int[(x)^(n)*((d) + (e)*(x))^(m)*((a) + (b)*(x) + (c)*(x)^2)^(p), x _Symbol] :> Simp[-2*(- d)^ n * e ^(2* $m - n + 3$)*(Sqrt[$a + b*x + c*x^2$]/((-2* $c*d + b*e$)^($m + 2$)*($d + e*x$))), x] - Simp[e ^(2* $m + 2$) Int[ExpandToSum[(- d)^ n *(-2* $c*d + b*e$)^(- $m - 1$))/(e^n*x^n) - ((- c)* $d + b*e + c*e*x$)^(- $m - 1$))/($d + e*x$), x]/(Sqrt[$a + b*x + c*x^2$]/ x^n), x], x] /; FreeQ[{ a, b, c, d, e }, x] && EqQ[$c*d^2 - b*d*e + a*e^2, 0$] && ILtQ[$m, 0$] && ILtQ[$n, 0$] && EqQ[$m + p, -3/2$]
1215. Int[(((f) + (g)*(x))^(n)*((a) + (b)*(x) + (c)*(x)^2)^(p))/((d) + (e)*(x)), x _Symbol] :> Int[($a/d + c*(x/e)$)*($f + g*x$)^ n *($a + b*x + c*x^2$)^($p - 1$), x] /; FreeQ[{ $a, b, c, d, e, f, g, n, p$ }, x] && EqQ[$c*d^2 - b*d*e + a*e^2, 0$] && GtQ[$p, 0$]
1216. Int[((d) + (e)*(x))^(m)*((f) + (g)*(x))^(n)*Sqrt[(a) + (b)*(x) + (c)*(x)^2], x _Symbol] :> Int[(($f + g*x$)^ n *($a + b*x + c*x^2$)^($m + 1/2$))/($a/d + c*(x/e)$)^ m , x] /; FreeQ[{ a, b, c, d, e, f, g, n }, x] && EqQ[$c*d^2 - b*d*e + a*e^2, 0$] && ILtQ[$m, 0$] && IntegerQ[n]
1217. Int[((d) + (e)*(x))^(m)*((f) + (g)*(x))*((a) + (b)*(x) + (c)*(x)^2)^(p), x _Symbol] :> Simp[$g*(d + e*x)^m*((a + b*x + c*x^2)^(p + 1)/(c*(m + 2*p + 2)))$, x] /; FreeQ[{ $a, b, c, d, e, f, g, m, p$ }, x] && EqQ[$c*d^2 - b*d*e + a*e^2, 0$] && EqQ[$c*e*f*(m + 2*p + 2) + g*(c*d*m - b*e*(m + p + 1))$, 0]
1218. Int[((d) + (e)*(x))^(m)*((f) + (g)*(x))*((a) + (b)*(x) + (c)*(x)^2)^(p), x _Symbol] :> Simp[($g*(c*d - b*e) + c*e*f$)*($d +$

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 e*x)^m*((a + b*x + c*x^2)^(p + 1)/(c*(p + 1)*(2*c*d - b*e))), x] - Si
mp[e*((m*(g*(c*d - b*e) + c*e*f) + e*(p + 1)*(2*c*f - b*g))/(c*(p + 1)
*(2*c*d - b*e)) Int[(d + e*x)^(m - 1)*(a + b*x + c*x^2)^(p + 1), x]
, x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c*d^2 - b*d*e + a*e^2,
0] && LtQ[p, -1] && GtQ[m, 0]

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1219.  $\text{Int}[(d + e x)^m ((f + g x)(a + b x + c x^2)^{p+1} + (c x^2)^{p+1}), x] \rightarrow \text{Simp}[(g(c d - b e) + c e f)(d + e x)^m ((a + b x + c x^2)^{p+1} / (c(p+1)(2 c d - b e))), x] - \text{Simp}[e((m(g(c d - b e) + c e f) + e(p+1)(2 c f - b g)) / (c(p+1)(2 c d - b e)) \text{Int}[(d + e x)^{\text{Simplify}[m-1]}(a + b x + c x^2)^{\text{Simplify}[p+1]}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[c d^2 - b d e + a e^2, 0] \&\& \text{SumSimplerQ}[p, 1] \&\& \text{SumSimplerQ}[m, -1] \&\& \text{NeQ}[p, -1]$
1220.  $\text{Int}[(d + e x)^m ((f + g x)(a + b x + c x^2)^{p+1} + (c x^2)^{p+1}), x] \rightarrow \text{Simp}[(d g - e f)(d + e x)^m ((a + b x + c x^2)^{p+1} / ((2 c d - b e)(m + p + 1))), x] + \text{Simp}[(m(g(c d - b e) + c e f) + e(p+1)(2 c f - b g)) / (e(2 c d - b e)(m + p + 1)) \text{Int}[(d + e x)^{m+1}(a + b x + c x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[c d^2 - b d e + a e^2, 0] \&\& ((\text{LtQ}[m, -1] \&\& !\text{IGtQ}[m + p + 1, 0]) || (\text{LtQ}[m, 0] \&\& \text{LtQ}[p, -1]) || \text{EqQ}[m + 2 p + 2, 0]) \&\& \text{NeQ}[m + p + 1, 0]$
1221.  $\text{Int}[(d + e x)^m ((f + g x)(a + b x + c x^2)^{p+1} + (c x^2)^{p+1}), x] \rightarrow \text{Simp}[g(d + e x)^m ((a + b x + c x^2)^{p+1} / (c(m + 2 p + 2))), x] + \text{Simp}[(m(g(c d - b e) + c e f) + e(p+1)(2 c f - b g)) / (c e(m + 2 p + 2)) \text{Int}[(d + e x)^m (a + b x + c x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[c d^2 - b d e + a e^2, 0] \&\& \text{NeQ}[m + 2 p + 2, 0]$
1222.  $\text{Int}[(d + e x)^m ((f + g x)(a + b x + c x^2)^{p+1} + (c x^2)^{p+1}), x] \rightarrow \text{Simp}[g(d + e x)^m ((a + b x + c x^2)^{p+1} / (2 c(p+1))), x] - \text{Simp}[e g(m / (2 c(p+1))) \text{Int}[(d + e x)^{m-1}(a + b x + c x^2)^{p+1}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[2 c f - b g, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 0]$

1223.  $\text{Int}[(d_.) + (e_.)(x_.)]((f_.) + (g_.)(x_.))((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(-(b*e*g*(p + 2) - c*(e*f + d*g))*(2*p + 3) - 2*c*e*g*(p + 1)*x)]((a + b*x + c*x^2)^{(p + 1)}/(2*c^2*(p + 1)*(2*p + 3))), x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& \text{EqQ}[b^2*e*g*(p + 2) - 2*a*c*e*g + c*(2*c*d*f - b*(e*f + d*g))*(2*p + 3), 0] \&\& \text{NeQ}[p, -1]$
1224.  $\text{Int}[(d_.) + (e_.)(x_.)]((f_.) + (g_.)(x_.))((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(-(2*a*c*(e*f + d*g) - b*(c*d*f + a*e*g) - (b^2*e*g - b*c*(e*f + d*g) + 2*c*(c*d*f - a*e*g))*x)]((a + b*x + c*x^2)^{(p + 1)}/(c*(p + 1)*(b^2 - 4*a*c))), x] - \text{Simp}[(b^2*e*g*(p + 2) - 2*a*c*e*g + c*(2*c*d*f - b*(e*f + d*g))*(2*p + 3))/(c*(p + 1)*(b^2 - 4*a*c)) \text{Int}[(a + b*x + c*x^2)^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{LtQ}[p, -1] \&\& !(IntegerQ[p] \&\& NeQ[a, 0] \&\& \text{NicsqrtQ}[b^2 - 4*a*c])$
1225.  $\text{Int}[(d_.) + (e_.)(x_.)]((f_.) + (g_.)(x_.))((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(-(b*e*g*(p + 2) - c*(e*f + d*g))*(2*p + 3) - 2*c*e*g*(p + 1)*x)]((a + b*x + c*x^2)^{(p + 1)}/(2*c^2*(p + 1)*(2*p + 3))), x] + \text{Simp}[(b^2*e*g*(p + 2) - 2*a*c*e*g + c*(2*c*d*f - b*(e*f + d*g))*(2*p + 3))/(2*c^2*(2*p + 3)) \text{Int}[(a + b*x + c*x^2)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& !\text{LeQ}[p, -1]$
1226.  $\text{Int}[(d_.) + (e_.)(x_.)]^{(m_.)}((f_.) + (g_.)(x_.))((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(-(e*f - d*g)]*(d + e*x)^{(m + 1)}*((a + b*x + c*x^2)^{(p + 1)}/(2*(p + 1)*(c*d^2 - b*d*e + a*e^2))), x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[\text{Simplify}[m + 2*p + 3], 0] \&\& \text{EqQ}[b*(e*f + d*g) - 2*(c*d*f + a*e*g), 0]$
1227.  $\text{Int}[(d_.) + (e_.)(x_.)]^{(m_.)}((f_.) + (g_.)(x_.))((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(d + e*x)^m*(a + b*x + c*x^2)^{(p + 1)}*((b*f - 2*a*g + (2*c*f - b*g)*x)/((p + 1)*(b^2 - 4*a*c))), x] - \text{Simp}[m*((b*(e*f + d*g) - 2*(c*d*f + a*e*g))/((p + 1)*(b^2 - 4*a*c))] \text{Int}[(d + e*x)^{(m - 1)}*(a + b*x + c*x^2)^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[\text{Simplify}[m + 2*p + 3], 0] \&\& \text{LtQ}[p, -1]$

1228.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] := \text{Simp}\left[\frac{-(e_{\cdot}f_{\cdot} - d_{\cdot}g_{\cdot})(d_{\cdot} + e_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)} \left((a_{\cdot} + b_{\cdot}x_{\cdot} + c_{\cdot}x_{\cdot}^2)^{(p_{\cdot} + 1)}\right)}{2(p_{\cdot} + 1)(c_{\cdot}d_{\cdot}^2 - b_{\cdot}d_{\cdot}e_{\cdot} + a_{\cdot}e_{\cdot}^2)}\right], x] - \text{Simp}\left[\frac{b_{\cdot}(e_{\cdot}f_{\cdot} + d_{\cdot}g_{\cdot}) - 2(c_{\cdot}d_{\cdot}f_{\cdot} + a_{\cdot}e_{\cdot}g_{\cdot})}{2(c_{\cdot}d_{\cdot}^2 - b_{\cdot}d_{\cdot}e_{\cdot} + a_{\cdot}e_{\cdot}^2)}\right] \text{Int}\left[(d_{\cdot} + e_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)}(a_{\cdot} + b_{\cdot}x_{\cdot} + c_{\cdot}x_{\cdot}^2)^p, x\right] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x\} \&\& \text{EqQ}[\text{Simplify}[m + 2p + 3], 0]$
1229.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] := \text{Simp}\left[\frac{-(d_{\cdot} + e_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)} \left((a_{\cdot} + b_{\cdot}x_{\cdot} + c_{\cdot}x_{\cdot}^2)^p\right)}{e^{2(m_{\cdot} + 1)}(m_{\cdot} + 2)(c_{\cdot}d_{\cdot}^2 - b_{\cdot}d_{\cdot}e_{\cdot} + a_{\cdot}e_{\cdot}^2)}\right] \left((d_{\cdot}g_{\cdot} - e_{\cdot}f_{\cdot}(m_{\cdot} + 2))(c_{\cdot}d_{\cdot}^2 - b_{\cdot}d_{\cdot}e_{\cdot} + a_{\cdot}e_{\cdot}^2) - d_{\cdot}p(2c_{\cdot}d_{\cdot} - b_{\cdot}e_{\cdot})(e_{\cdot}f_{\cdot} - d_{\cdot}g_{\cdot}) - e_{\cdot}(g_{\cdot}(m_{\cdot} + 1)(c_{\cdot}d_{\cdot}^2 - b_{\cdot}d_{\cdot}e_{\cdot} + a_{\cdot}e_{\cdot}^2) + p(2c_{\cdot}d_{\cdot} - b_{\cdot}e_{\cdot})(e_{\cdot}f_{\cdot} - d_{\cdot}g_{\cdot}))x\right), x] - \text{Simp}\left[\frac{p}{e^{2(m_{\cdot} + 1)}(m_{\cdot} + 2)(c_{\cdot}d_{\cdot}^2 - b_{\cdot}d_{\cdot}e_{\cdot} + a_{\cdot}e_{\cdot}^2)}\right] \text{Int}\left[(d_{\cdot} + e_{\cdot}x_{\cdot})^{(m_{\cdot} + 2)}(a_{\cdot} + b_{\cdot}x_{\cdot} + c_{\cdot}x_{\cdot}^2)^{(p - 1)} \text{Simp}\left[2a_{\cdot}c_{\cdot}e_{\cdot}(e_{\cdot}f_{\cdot} - d_{\cdot}g_{\cdot})(m_{\cdot} + 2) + b_{\cdot}^2e_{\cdot}(d_{\cdot}g_{\cdot}(p + 1) - e_{\cdot}f_{\cdot}(m_{\cdot} + p + 2)) + b_{\cdot}(a_{\cdot}e_{\cdot}^2g_{\cdot}(m_{\cdot} + 1) - c_{\cdot}d_{\cdot}(d_{\cdot}g_{\cdot}(2p + 1) - e_{\cdot}f_{\cdot}(m_{\cdot} + 2p + 2))) - c_{\cdot}(2c_{\cdot}d_{\cdot}(d_{\cdot}g_{\cdot}(2p + 1) - e_{\cdot}f_{\cdot}(m_{\cdot} + 2p + 2)) - e_{\cdot}(2a_{\cdot}e_{\cdot}g_{\cdot}(m_{\cdot} + 1) - b_{\cdot}(d_{\cdot}g_{\cdot}(m_{\cdot} - 2p) + e_{\cdot}f_{\cdot}(m_{\cdot} + 2p + 2))))\right]x, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x\} \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -2] \&\& \text{LtQ}[m + 2p, 0] \&\& !\text{LtQ}[m + 2p + 3, 0]$
1230.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] := \text{Simp}\left[(d_{\cdot} + e_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)}(e_{\cdot}f_{\cdot}(m_{\cdot} + 2p + 2) - d_{\cdot}g_{\cdot}(2p + 1) + e_{\cdot}g_{\cdot}(m_{\cdot} + 1)x_{\cdot}) \left((a_{\cdot} + b_{\cdot}x_{\cdot} + c_{\cdot}x_{\cdot}^2)^p\right) / (e^{2(m_{\cdot} + 1)}(m_{\cdot} + 2p + 2))\right], x] + \text{Simp}\left[\frac{p}{e^{2(m_{\cdot} + 1)}(m_{\cdot} + 2p + 2)}\right] \text{Int}\left[(d_{\cdot} + e_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)}(a_{\cdot} + b_{\cdot}x_{\cdot} + c_{\cdot}x_{\cdot}^2)^{(p - 1)} \text{Simp}\left[g_{\cdot}(b_{\cdot}d_{\cdot} + 2a_{\cdot}e_{\cdot} + 2a_{\cdot}e_{\cdot}m_{\cdot} + 2b_{\cdot}d_{\cdot}p) - f_{\cdot}b_{\cdot}e_{\cdot}(m_{\cdot} + 2p + 2) + (g_{\cdot}(2c_{\cdot}d_{\cdot} + b_{\cdot}e_{\cdot} + b_{\cdot}e_{\cdot}m_{\cdot} + 4c_{\cdot}d_{\cdot}p) - 2c_{\cdot}e_{\cdot}f_{\cdot}(m_{\cdot} + 2p + 2))\right]x, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m\}, x\} \&\& \text{GtQ}[p, 0] \&\& (\text{LtQ}[m, -1] || \text{EqQ}[p, 1] || (\text{IntegerQ}[p] \&\& !\text{RationalQ}[m])) \&\& \text{NeQ}[m, -1] \&\& !\text{LtQ}[m + 2p + 1, 0] \&\& (\text{IntegerQ}[m] || \text{IntegerQ}[p] || \text{IntegersQ}[2m, 2p])$
1231.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((f_{\cdot}) + (g_{\cdot})(x_{\cdot})\right) \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] := \text{Simp}\left[(d_{\cdot} + e_{\cdot}x_{\cdot})^{(m_{\cdot} + 1)}(c_{\cdot}e_{\cdot}f_{\cdot}(m_{\cdot} + 2p + 2) - g_{\cdot}(c_{\cdot}d_{\cdot} + 2c_{\cdot}d_{\cdot}p - b_{\cdot}e_{\cdot}p) + g_{\cdot}c_{\cdot}e_{\cdot}(m_{\cdot} + 2p + 1)x_{\cdot}) \left((a_{\cdot} + b_{\cdot}x_{\cdot} + c_{\cdot}x_{\cdot}^2)^p\right) / (c_{\cdot}e_{\cdot}^2(m_{\cdot} + 2p + 1)(m_{\cdot} + 2p + 2))\right], x] - \text{Simp}\left[\frac{p}{c_{\cdot}e_{\cdot}^2(m_{\cdot} + 2p + 1)(m_{\cdot} + 2p + 2)}\right] \text{Int}\left[(d_{\cdot} + e_{\cdot}x_{\cdot})^m(a_{\cdot} + b_{\cdot}x_{\cdot} + c_{\cdot}x_{\cdot}^2)^{(p - 1)} \text{Simp}\left[c_{\cdot}e_{\cdot}f_{\cdot}(b_{\cdot}d_{\cdot} - 2a_{\cdot}e_{\cdot})(m_{\cdot} + 2p + 2) + g_{\cdot}(a_{\cdot}e_{\cdot}(b_{\cdot}e_{\cdot} - 2c_{\cdot}d_{\cdot}m_{\cdot} + b_{\cdot}e_{\cdot}m_{\cdot}) + b_{\cdot}d_{\cdot}(b_{\cdot}e_{\cdot}p - c_{\cdot}d_{\cdot} - 2c_{\cdot}d_{\cdot}p)) + (c_{\cdot}e_{\cdot}f_{\cdot}(2c_{\cdot}d_{\cdot} - b_{\cdot}e_{\cdot})(m_{\cdot} + 2p\right.$

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+ 2) + g*(b^2*e^2*(p + m + 1) - 2*c^2*d^2*(1 + 2*p) - c*e*(b*d*(m - 2*
p) + 2*a*e*(m + 2*p + 1))))*x, x], x] /; FreeQ[{a, b, c, d, e, f,
g, m}, x] && GtQ[p, 0] && (IntegerQ[p] || !RationalQ[m] || (GeQ[m, -1
] && LtQ[m, 0])) && !ILtQ[m + 2*p, 0] && (IntegerQ[m] || IntegerQ[p]
|| IntegersQ[2*m, 2*p])

1232. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))*((a_) + (b_)*(x_) +
(c_)*(x_)^2)^(p_), x_Symbol] :> Int[(a + b*x + c*x^2)^p*ExpandIntegr
and[(d + e*x)^m*(f + g*x), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] &
& ILtQ[p, -1] && IGtQ[m, 0] && RationalQ[a, b, c, d, e, f, g]

1233. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))*((a_) + (b_)*(x_)
+ (c_)*(x_)^2)^(p_), x_Symbol] :> Simp[(-(d + e*x)^(m - 1))*(a + b*
x + c*x^2)^(p + 1)*((2*a*c*(e*f + d*g) - b*(c*d*f + a*e*g) - (2*c^2*d*
f + b^2*e*g - c*(b*e*f + b*d*g + 2*a*e*g))*x)/(c*(p + 1)*(b^2 - 4*a*c)
)), x] - Simp[1/(c*(p + 1)*(b^2 - 4*a*c)) Int[(d + e*x)^(m - 2)*(a +
b*x + c*x^2)^(p + 1)*Simp[2*c^2*d^2*f*(2*p + 3) + b*e*g*(a*e*(m - 1)
+ b*d*(p + 2)) - c*(2*a*e*(e*f*(m - 1) + d*g*m) + b*d*(d*g*(2*p + 3) -
e*f*(m - 2*p - 4))] + e*(b^2*e*g*(m + p + 1) + 2*c^2*d*f*(m + 2*p + 2)
) - c*(2*a*e*g*m + b*(e*f + d*g)*(m + 2*p + 2)))*x, x], x] /; Free
Q[{a, b, c, d, e, f, g}, x] && LtQ[p, -1] && GtQ[m, 1] && ((EqQ[m, 2]
&& EqQ[p, -3] && RationalQ[a, b, c, d, e, f, g]) || !ILtQ[m + 2*p + 3
, 0])

1234. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))*((a_) + (b_)*(x_)
+ (c_)*(x_)^2)^(p_), x_Symbol] :> Simp[(d + e*x)^m*(a + b*x + c*x^2)
^(p + 1)*((f*b - 2*a*g + (2*c*f - b*g)*x)/((p + 1)*(b^2 - 4*a*c))), x]
+ Simp[1/((p + 1)*(b^2 - 4*a*c)) Int[(d + e*x)^(m - 1)*(a + b*x + c
*x^2)^(p + 1)*Simp[g*(2*a*e*m + b*d*(2*p + 3)) - f*(b*e*m + 2*c*d*(2*p
+ 3)) - e*(2*c*f - b*g)*(m + 2*p + 3)*x, x], x], x] /; FreeQ[{a, b, c
, d, e, f, g}, x] && LtQ[p, -1] && GtQ[m, 0] && (IntegerQ[m] || Intege
rQ[p] || IntegersQ[2*m, 2*p])

1235. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))*((a_) + (b_)*(x_)
+ (c_)*(x_)^2)^(p_), x_Symbol] :> Simp[(d + e*x)^(m + 1)*(f*(b*c*d -
b^2*e + 2*a*c*e) - a*g*(2*c*d - b*e) + c*(f*(2*c*d - b*e) - g*(b*d -
2*a*e))*x*(a + b*x + c*x^2)^(p + 1)/((p + 1)*(b^2 - 4*a*c)*(c*d^2 -

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b*d*e + a*e^2))), x] + Simp[1/((p + 1)*(b^2 - 4*a*c)*(c*d^2 - b*d*e +
a*e^2)) Int[(d + e*x)^m*(a + b*x + c*x^2)^(p + 1)*Simp[f*(b*c*d*e*(2
*p - m + 2) + b^2*e^2*(p + m + 2) - 2*c^2*d^2*(2*p + 3) - 2*a*c*e^2*(m
+ 2*p + 3)) - g*(a*e*(b*e - 2*c*d*m + b*e*m) - b*d*(3*c*d - b*e + 2*c
*d*p - b*e*p)) + c*e*(g*(b*d - 2*a*e) - f*(2*c*d - b*e))*(m + 2*p + 4)
*x, x], x] /; FreeQ[{a, b, c, d, e, f, g, m}, x] && LtQ[p, -1] &&
(IntegerQ[m] || IntegerQ[p] || IntegersQ[2*m, 2*p])

1236. Int[((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))*((a_.) + (b_.)*(x_)
+ (c_.)*(x_)^2)^(p_.), x_Symbol] := Simp[g*(d + e*x)^m*((a + b*x + c*
x^2)^(p + 1)/(c*(m + 2*p + 2))), x] + Simp[1/(c*(m + 2*p + 2)) Int[(
d + e*x)^(m - 1)*(a + b*x + c*x^2)^p*Simp[m*(c*d*f - a*e*g) + d*(2*c*f
- b*g)*(p + 1) + (m*(c*e*f + c*d*g - b*e*g) + e*(p + 1)*(2*c*f - b*g)
)*x, x], x] /; FreeQ[{a, b, c, d, e, f, g, p}, x] && GtQ[m, 0] &&
NeQ[m + 2*p + 2, 0] && (IntegerQ[m] || IntegerQ[p] || IntegersQ[2*m, 2
*p]) && !(IGtQ[m, 0] && EqQ[f, 0])

1237. Int[((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))*((a_.) + (b_.)*(x_)
+ (c_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(e*f - d*g)*(d + e*x)^(m + 1)
)*((a + b*x + c*x^2)^(p + 1)/((m + 1)*(c*d^2 - b*d*e + a*e^2))), x] +
Simp[1/((m + 1)*(c*d^2 - b*d*e + a*e^2)) Int[(d + e*x)^(m + 1)*(a +
b*x + c*x^2)^p*Simp[(c*d*f - f*b*e + a*e*g)*(m + 1) + b*(d*g - e*f)*(p
+ 1) - c*(e*f - d*g)*(m + 2*p + 3)*x, x], x] /; FreeQ[{a, b, c, d
, e, f, g, p}, x] && LtQ[m, -1] && (IntegerQ[m] || IntegerQ[p] || Inte
gersQ[2*m, 2*p])

1238. Int[((d_.) + (e_.)*(x_))^(m_)*((f_.) + (g_.)*(x_))*((a_.) + (b_.)*(x_)
+ (c_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(e*f - d*g)*(d + e*x)^(m + 1)
)*((a + b*x + c*x^2)^(p + 1)/((m + 1)*(c*d^2 - b*d*e + a*e^2))), x] +
Simp[1/((m + 1)*(c*d^2 - b*d*e + a*e^2)) Int[(d + e*x)^(m + 1)*(a +
b*x + c*x^2)^p*Simp[(c*d*f - f*b*e + a*e*g)*(m + 1) + b*(d*g - e*f)*(p
+ 1) - c*(e*f - d*g)*(m + 2*p + 3)*x, x], x] /; FreeQ[{a, b, c, d
, e, f, g, m, p}, x] && ILtQ[Simplify[m + 2*p + 3], 0] && NeQ[m, -1]

1239. Int[((f_) + (g_.)*(x_))/(((d_.) + (e_.)*(x_))*Sqrt[(a_.) + (b_.)*(x_)
+ (c_.)*(x_)^2]), x_Symbol] := Simp[4*f*((a - d)/(b*d - a*e)) Subst[
Int[1/(4*(a - d) - x^2), x], x, (2*(a - d) + (b - e)*x)/Sqrt[a + b*x +

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c*x^2]], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[4*c*(a - d) - (
b - e)^2, 0] && EqQ[e*f*(b - e) - 2*g*(b*d - a*e), 0] && NeQ[b*d - a*e
, 0]

1240. Int[((f_) + (g_)*(x_))/(Sqrt[x_]*Sqrt[(a_) + (b_)*(x_) + (c_)*(x_)^
2]), x_Symbol] := Simp[2 Subst[Int[(f + g*x^2)/Sqrt[a + b*x^2 + c*x^
4], x], x, Sqrt[x]], x] /; FreeQ[{a, b, c, f, g}, x]

1241. Int[((f_) + (g_)*(x_))/(Sqrt[(e_)*(x_)]*Sqrt[(a_) + (b_)*(x_) + (c_
)*(x_)^2]), x_Symbol] := Simp[Sqrt[x]/Sqrt[e*x] Int[(f + g*x)/(Sqrt[
x]*Sqrt[a + b*x + c*x^2]), x], x] /; FreeQ[{a, b, c, e, f, g}, x]

1242. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))^(n_)*((a_) + (b_
)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := With[{Q = PolynomialQuotient
[(f + g*x)^n, a*e + c*d*x, x], R = PolynomialRemainder[(f + g*x)^n, a*
e + c*d*x, x]}, Simp[R*(2*c*d - b*e)*(d + e*x)^m*((a + b*x + c*x^2)^(p
+ 1)/(e*(p + 1)*(b^2 - 4*a*c))), x] + Simp[1/((p + 1)*(b^2 - 4*a*c))
Int[(d + e*x)^(m - 1)*(a + b*x + c*x^2)^(p + 1)*ExpandToSum[d*e*(p +
1)*(b^2 - 4*a*c)*Q - R*(2*c*d - b*e)*(m + 2*p + 2), x], x], x]] /; Fr
eeQ[{a, b, c, d, e, f, g}, x] && IGtQ[n, 1] && IGtQ[m, 0] && LtQ[p, -1
] && EqQ[c*d^2 - b*d*e + a*e^2, 0]

1243. Int[(((f_) + (g_)*(x_))^(n_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p
_))/((d_) + (e_)*(x_)), x_Symbol] := Simp[(-(2*c*d - b*e))*(f + g*x)^
n*((a + b*x + c*x^2)^(p + 1)/(e*p*(b^2 - 4*a*c)*(d + e*x))), x] + Simp
[n*((a*g*(2*c*d - b*e) - c*f*(b*d - 2*a*e))/(d*e*p*(b^2 - 4*a*c))] I
nt[(f + g*x)^(n - 1)*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b, c, d,
e, f, g}, x] && EqQ[c*d^2 - b*d*e + a*e^2, 0] && IGtQ[n, 1] && LtQ[p,
-1] && EqQ[n + 2*p + 1, 0]

1244. Int[(((f_) + (g_)*(x_))^(n_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_
))/((d_) + (e_)*(x_)), x_Symbol] := Simp[(-(e*f - d*g))*(f + g*x)^(n -
1)*((a + b*x + c*x^2)^(p + 1)/(p*(2*c*d - b*e)*(d + e*x))), x] + Simp
[1/(p*e^2*(2*c*d - b*e)) Int[(f + g*x)^(n - 2)*(a + b*x + c*x^2)^p*S
imp[b*e*g*((-e)*f + d*g + e*f*n - d*g*n - e*f*p) + c*(d^2*g^2*(n - 1)
- d*e*f*g*n + e^2*f^2*(2*p + 1)) - e*g*(b*e*g*p - c*(e*f*n - d*g*n +
2*e*f*p))*x, x], x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[n, 1

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- $$] \ \&\& \text{LtQ}[p, -1] \ \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0]$$
1245.
$$\text{Int}[\text{((d_)} + \text{(e_)}*(x_))^{\text{(m_)}}*\text{((f_)} + \text{(g_)}*(x_))^{\text{(n_)}}*\text{((a_)} + \text{(b_)}*(x_)} + \text{(c_)}*(x_)^2)^{\text{(p_)}}, x_Symbol] \text{:>} \text{Int}[(d + e*x)^{m + p}*(f + g*x)^n*(a/d + (c/e)*x)^p, x] \text{/; FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \ \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \ \&\& \text{GtQ}[a, 0] \ \&\& \text{GtQ}[d, 0] \ \&\& \text{LtQ}[c, 0]$$
1246.
$$\text{Int}[\text{(((f_)} + \text{(g_)}*(x_))^{\text{(n_)}}*\text{((a_)} + \text{(b_)}*(x_)} + \text{(c_)}*(x_)^2)^{\text{(p_)}}/\text{((d_)} + \text{(e_)}*(x_)), x_Symbol] \text{:>} \text{Simp}[(f + g*x)^{n + 1}*(a + b*x + c*x^2)^p*((c*d - b*e - c*e*x)/(p*(2*c*d - b*e)*(e*f - d*g))), x] + \text{Simp}[1/(p*(2*c*d - b*e)*(e*f - d*g)) \ \text{Int}[(f + g*x)^n*(a + b*x + c*x^2)^p*(b*e*g*(n + p + 1) + c*e*f*(2*p + 1) - c*d*g*(n + 2*p + 1) + c*e*g*(n + 2*p + 2)*x), x], x] \text{/; FreeQ}\{a, b, c, d, e, f, g\}, x] \ \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \ \&\& \text{ILtQ}[n, 0] \ \&\& \text{ILtQ}[n + 2*p, 0] \ \&\& \text{!IGtQ}[n, 0]$$
1247.
$$\text{Int}[\text{((d_)} + \text{(e_)}*(x_))^{\text{(m_)}}*\text{((f_)} + \text{(g_)}*(x_))^{\text{(n_)}}*\text{((a_)} + \text{(b_)}*(x_)} + \text{(c_)}*(x_)^2)^{\text{(p_)}}, x_Symbol] \text{:>} \text{Simp}[(-e)*(d + e*x)^{m - 1}*(f + g*x)^n*((a + b*x + c*x^2)^{p + 1}/(c*(m - n - 1))), x] \text{/; FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \ \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \ \&\& \text{EqQ}[m + p, 0] \ \&\& \text{EqQ}[c*e*f + c*d*g - b*e*g, 0] \ \&\& \text{NeQ}[m - n - 1, 0]$$
1248.
$$\text{Int}[\text{((d_)} + \text{(e_)}*(x_))^{\text{(m_)}}*\text{((f_)} + \text{(g_)}*(x_))^{\text{(n_)}}*\text{((a_)} + \text{(b_)}*(x_)} + \text{(c_)}*(x_)^2)^{\text{(p_)}}, x_Symbol] \text{:>} \text{Simp}[(-e^2)*(d + e*x)^{m - 1}*(f + g*x)^{n + 1}*((a + b*x + c*x^2)^{p + 1}/((n + 1)*(c*e*f + c*d*g - b*e*g))), x] \text{/; FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \ \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \ \&\& \text{EqQ}[m + p, 0] \ \&\& \text{EqQ}[m - n - 2, 0]$$
1249.
$$\text{Int}[\text{((d_)} + \text{(e_)}*(x_))^{\text{(m_)}}*\text{((f_)} + \text{(g_)}*(x_))^{\text{(n_)}}*\text{((a_)} + \text{(b_)}*(x_)} + \text{(c_)}*(x_)^2)^{\text{(p_)}}, x_Symbol] \text{:>} \text{Simp}[(d + e*x)^m*(f + g*x)^{n + 1}*((a + b*x + c*x^2)^p/(g*(n + 1))), x] + \text{Simp}[c*(m/(e*g*(n + 1))) \ \text{Int}[(d + e*x)^{m + 1}*(f + g*x)^{n + 1}*(a + b*x + c*x^2)^{p - 1}, x], x] \text{/; FreeQ}\{a, b, c, d, e, f, g\}, x] \ \&\& \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \ \&\& \text{EqQ}[m + p, 0] \ \&\& \text{GtQ}[p, 0] \ \&\& \text{LtQ}[n, -1] \ \&\& \text{!(IntegerQ}[n + p] \ \&\& \text{LeQ}[n + p + 2, 0])$$

1250. $\text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-d + e \cdot x)^m \cdot (f + g \cdot x)^{n+1} \cdot (a + b \cdot x + c \cdot x^2)^p / (g \cdot (m - n - 1)), x] - \text{Simp}[m \cdot (c \cdot e \cdot f + c \cdot d \cdot g - b \cdot e \cdot g) / (e^2 \cdot g \cdot (m - n - 1)) \text{Int}[(d + e \cdot x)^{m+1} \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^{p-1}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, n, x\}$ && $\text{EqQ}[c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2, 0]$ && $\text{EqQ}[m + p, 0]$ && $\text{GtQ}[p, 0]$ && $\text{NeQ}[m - n - 1, 0]$ && $\text{!IGtQ}[n, 0]$ && $\text{!(IntegerQ}[n + p] \&\& \text{LtQ}[n + p + 2, 0])$ && $\text{RationalQ}[n]$
1251. $\text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[e \cdot (d + e \cdot x)^{m-1} \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^{p+1} / (c \cdot (p + 1)), x] - \text{Simp}[e \cdot g \cdot n / (c \cdot (p + 1)) \text{Int}[(d + e \cdot x)^{m-1} \cdot (f + g \cdot x)^{n-1} \cdot (a + b \cdot x + c \cdot x^2)^{p+1}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, x\}$ && $\text{EqQ}[c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2, 0]$ && $\text{EqQ}[m + p, 0]$ && $\text{LtQ}[p, -1]$ && $\text{GtQ}[n, 0]$
1252. $\text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[e^2 \cdot (d + e \cdot x)^{m-1} \cdot (f + g \cdot x)^{n+1} \cdot (a + b \cdot x + c \cdot x^2)^{p+1} / ((p + 1) \cdot (c \cdot e \cdot f + c \cdot d \cdot g - b \cdot e \cdot g)), x] + \text{Simp}[e^2 \cdot g \cdot (m - n - 2) / ((p + 1) \cdot (c \cdot e \cdot f + c \cdot d \cdot g - b \cdot e \cdot g)) \text{Int}[(d + e \cdot x)^{m-1} \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^{p+1}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, n, x\}$ && $\text{EqQ}[c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2, 0]$ && $\text{EqQ}[m + p, 0]$ && $\text{LtQ}[p, -1]$ && $\text{RationalQ}[n]$
1253. $\text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-e) \cdot (d + e \cdot x)^{m-1} \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^{p+1} / (c \cdot (m - n - 1)), x] - \text{Simp}[n \cdot (c \cdot e \cdot f + c \cdot d \cdot g - b \cdot e \cdot g) / (c \cdot e \cdot (m - n - 1)) \text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^{n-1} \cdot (a + b \cdot x + c \cdot x^2)^p, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, m, p, x\}$ && $\text{EqQ}[c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2, 0]$ && $\text{EqQ}[m + p, 0]$ && $\text{GtQ}[n, 0]$ && $\& \text{NeQ}[m - n - 1, 0]$ && $(\text{IntegerQ}[2 \cdot p] \parallel \text{IntegerQ}[n])$
1254. $\text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^n \cdot (a + b \cdot x + c \cdot x^2)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-e^2) \cdot (d + e \cdot x)^{m-1} \cdot (f + g \cdot x)^{n+1} \cdot (a + b \cdot x + c \cdot x^2)^{p+1} / ((n + 1) \cdot (c \cdot e \cdot f + c \cdot d \cdot g - b \cdot e \cdot g)), x] - \text{Simp}[c \cdot e \cdot (m - n - 2) / ((n + 1) \cdot (c \cdot e \cdot f + c \cdot d \cdot g - b \cdot e \cdot g)) \text{Int}[(d + e \cdot x)^m \cdot (f + g \cdot x)^{n+1} \cdot (a + b \cdot x + c \cdot x^2)^p, x], x] /;$

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FreeQ[{a, b, c, d, e, f, g, m, p}, x] && EqQ[c*d^2 - b*d*e + a*e^2, 0]
&& EqQ[m + p, 0] && LtQ[n, -1] && IntegerQ[2*p]

1255. Int[Sqrt[(d_) + (e_)*(x_)]/(((f_) + (g_)*(x_))*Sqrt[(a_) + (b_)*(
x_) + (c_)*(x_)^2]), x_Symbol] := Simp[2*e^2 Subst[Int[1/(c*(e*f +
d*g) - b*e*g + e^2*g*x^2), x], x, Sqrt[a + b*x + c*x^2]/Sqrt[d + e*x]]
, x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c*d^2 - b*d*e + a*e^2,
0]

1256. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))^(n_)*((a_) + (b_)*
(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Simp[e^2*(d + e*x)^(m - 2)*(f
+ g*x)^(n + 1)*((a + b*x + c*x^2)^(p + 1)/(c*g*(n + p + 2))), x] /; Fr
eeQ[{a, b, c, d, e, f, g, m, n, p}, x] && EqQ[c*d^2 - b*d*e + a*e^2, 0
] && EqQ[m + p - 1, 0] && EqQ[b*e*g*(n + 1) + c*e*f*(p + 1) - c*d*g*(2
*n + p + 3), 0] && NeQ[n + p + 2, 0]

1257. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))^(n_)*((a_) + (b_)*
(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Simp[e^2*(e*f - d*g)*(d + e*x)
^(m - 2)*(f + g*x)^(n + 1)*((a + b*x + c*x^2)^(p + 1)/(g*(n + 1)*(c*e*
f + c*d*g - b*e*g))), x] - Simp[e*((b*e*g*(n + 1) + c*e*f*(p + 1) - c*
d*g*(2*n + p + 3))/(g*(n + 1)*(c*e*f + c*d*g - b*e*g))] Int[(d + e*x
)^(m - 1)*(f + g*x)^(n + 1)*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b
, c, d, e, f, g, m, p}, x] && EqQ[c*d^2 - b*d*e + a*e^2, 0] && EqQ[m +
p - 1, 0] && LtQ[n, -1] && IntegerQ[2*p]

1258. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))^(n_)*((a_) + (b_)*
(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Simp[e^2*(d + e*x)^(m - 2)*(f
+ g*x)^(n + 1)*((a + b*x + c*x^2)^(p + 1)/(c*g*(n + p + 2))), x] - Sim
p[(b*e*g*(n + 1) + c*e*f*(p + 1) - c*d*g*(2*n + p + 3))/(c*g*(n + p +
2)) Int[(d + e*x)^(m - 1)*(f + g*x)^n*(a + b*x + c*x^2)^p, x], x] /;
FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && EqQ[c*d^2 - b*d*e + a*e^2
, 0] && EqQ[m + p - 1, 0] && !LtQ[n, -1] && IntegerQ[2*p]

1259. Int[((d_) + (e_)*(x_))^(m_)*((f_) + (g_)*(x_))^(n_)*((a_) + (b_)*
(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Int[ExpandIntegrand[(d + e*x)^
m*(f + g*x)^n*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, f,
g, n, p}, x] && EqQ[c*d^2 - b*d*e + a*e^2, 0] && ILtQ[m, 0] && (ILtQ[n

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- , 0] || (IGtQ[n, 0] && ILtQ[p + 1/2, 0])) && !IGtQ[n, 0]
1260. Int[((d\_.) + (e\_.)\*(x\_))^(m\_)\*((f\_.) + (g\_.)\*(x\_))^(n\_)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := Int[ExpandIntegrand[(a + b\*x + c\*x^2)^p, (d + e\*x)^m\*(f + g\*x)^n, x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && EqQ[m + n + 2\*p + 1, 0] && ILtQ[m, 0] && ILtQ[n, 0]
1261. Int[((e\_.)\*(x\_))^(m\_)\*((f\_.) + (g\_.)\*(x\_))^(n\_)\*((b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := Simp[(e\*x)^m\*((b\*x + c\*x^2)^p/(x^(m + p)\*(b + c\*x)^p)) Int[x^(m + p)\*(f + g\*x)^n\*(b + c\*x)^p, x], x] /; FreeQ[{b, c, e, f, g, m, n}, x] && !IGtQ[n, 0]
1262. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := Simp[g^n\*(d + e\*x)^(m + n - 1)\*((a + b\*x + c\*x^2)^(p + 1)/(c\*e^(n - 1)\*(m + n + 2\*p + 1))), x] + Simp[1/(c\*e^n\*(m + n + 2\*p + 1)) Int[(d + e\*x)^m\*(a + b\*x + c\*x^2)^p\*ExpandToSum[c\*e^n\*(m + n + 2\*p + 1)\*(f + g\*x)^n - c\*g^n\*(m + n + 2\*p + 1)\*(d + e\*x)^n + e\*g^n\*(m + p + n)\*(d + e\*x)^(n - 2)\*(b\*d - 2\*a\*e + (2\*c\*d - b\*e)\*x), x], x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p}, x] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && IGtQ[n, 0] && NeQ[m + n + 2\*p + 1, 0]
1263. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := With[{Q = PolynomialQuotient[(f + g\*x)^n, a + b\*x + c\*x^2, x], R = Coeff[PolynomialRemainder[(f + g\*x)^n, a + b\*x + c\*x^2, x], x, 0], S = Coeff[PolynomialRemainder[(f + g\*x)^n, a + b\*x + c\*x^2, x], x, 1]}, Simp[(d + e\*x)^m\*(a + b\*x + c\*x^2)^(p + 1)\*((R\*b - 2\*a\*S + (2\*c\*R - b\*S)\*x)/((p + 1)\*(b^2 - 4\*a\*c))), x] + Simp[1/((p + 1)\*(b^2 - 4\*a\*c)) Int[(d + e\*x)^(m - 1)\*(a + b\*x + c\*x^2)^(p + 1)\*ExpandToSum[(p + 1)\*(b^2 - 4\*a\*c)\*(d + e\*x)\*Q + S\*(2\*a\*e\*m + b\*d\*(2\*p + 3)) - R\*(b\*e\*m + 2\*c\*d\*(2\*p + 3)) - e\*(2\*c\*R - b\*S)\*(m + 2\*p + 3)\*x, x], x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[n, 1] && LtQ[p, -1] && GtQ[m, 0] && NeQ[c\*d^2 - b\*d\*e + a\*e^2, 0]
1264. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_), x\_Symbol] := With[{Q = PolynomialQuotient

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[(d + e*x)^m*(f + g*x)^n, a + b*x + c*x^2, x], R = Coeff[PolynomialRem
ainder[(d + e*x)^m*(f + g*x)^n, a + b*x + c*x^2, x], x, 0], S = Coeff[
PolynomialRemainder[(d + e*x)^m*(f + g*x)^n, a + b*x + c*x^2, x], x, 1
]}, Simp[(b*R - 2*a*S + (2*c*R - b*S)*x)*((a + b*x + c*x^2)^(p + 1)/((
p + 1)*(b^2 - 4*a*c))), x] + Simp[1/((p + 1)*(b^2 - 4*a*c)) Int[(d +
e*x)^m*(a + b*x + c*x^2)^(p + 1)*ExpandToSum[((p + 1)*(b^2 - 4*a*c)*Q
)/(d + e*x)^m - ((2*p + 3)*(2*c*R - b*S))/(d + e*x)^m, x], x], x]] /;
FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[n, 1] && LtQ[p, -1] && ILtQ[m,
0] && NeQ[c*d^2 - b*d*e + a*e^2, 0]

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1265. Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.)*((a_.) + (b_.
)*(x_) + (c_.)*(x_)^2)^(p_), x_Symbol] := With[{Q = PolynomialQuotient
[(f + g*x)^n, a + b*x + c*x^2, x], R = Coeff[PolynomialRemainder[(f +
g*x)^n, a + b*x + c*x^2, x], x, 0], S = Coeff[PolynomialRemainder[(f +
g*x)^n, a + b*x + c*x^2, x], x, 1]}, Simp[(d + e*x)^(m + 1)*(a + b*x
+ c*x^2)^(p + 1)*((R*(b*c*d - b^2*e + 2*a*c*e) - a*S*(2*c*d - b*e) + c
(R(2*c*d - b*e) - S*(b*d - 2*a*e))*x)/((p + 1)*(b^2 - 4*a*c)*(c*d^2
- b*d*e + a*e^2))), x] + Simp[1/((p + 1)*(b^2 - 4*a*c)*(c*d^2 - b*d*e
+ a*e^2)) Int[(d + e*x)^m*(a + b*x + c*x^2)^(p + 1)*ExpandToSum[(p +
1)*(b^2 - 4*a*c)*(c*d^2 - b*d*e + a*e^2)*Q + R*(b*c*d*e*(2*p - m + 2)
+ b^2*e^2*(p + m + 2) - 2*c^2*d^2*(2*p + 3) - 2*a*c*e^2*(m + 2*p + 3)
) - S*(a*e*(b*e - 2*c*d*m + b*e*m) - b*d*(3*c*d - b*e + 2*c*d*p - b*e*
p)) + c*e*(S*(b*d - 2*a*e) - R*(2*c*d - b*e))*(m + 2*p + 4)*x, x], x]] /;
FreeQ[{a, b, c, d, e, f, g, m}, x] && IGtQ[n, 1] && LtQ[p, -1]
&& NeQ[c*d^2 - b*d*e + a*e^2, 0]

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1266. Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.)*((a_.) + (b_.
)*(x_) + (c_.)*(x_)^2)^(p_), x_Symbol] := With[{Q = PolynomialQuotient[
(f + g*x)^n, d + e*x, x], R = PolynomialRemainder[(f + g*x)^n, d + e*x
, x]}, Simp[(e*R*(d + e*x)^(m + 1)*(a + b*x + c*x^2)^(p + 1))/((m + 1)
*(c*d^2 - b*d*e + a*e^2)), x] + Simp[1/((m + 1)*(c*d^2 - b*d*e + a*e^2
)) Int[(d + e*x)^(m + 1)*(a + b*x + c*x^2)^p*ExpandToSum[(m + 1)*(c*
d^2 - b*d*e + a*e^2)*Q + c*d*R*(m + 1) - b*e*R*(m + p + 2) - c*e*R*(m
+ 2*p + 3)*x, x], x], x]] /; FreeQ[{a, b, c, d, e, f, g, p}, x] && IGt
Q[n, 1] && ILtQ[m, -1] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && (NeQ[m + n,
0] || EqQ[p, -2^(-1)])

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1267. `Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_), x_Symbol] := Simp[g^n*(d + e*x)^(m + n - 1)*((a + b*x + c*x^2)^(p + 1)/(c*e^(n - 1)*(m + n + 2*p + 1))), x] + Simp[1/(c*e^n*(m + n + 2*p + 1)) Int[(d + e*x)^m*(a + b*x + c*x^2)^p*ExpandToSum[c*e^n*(m + n + 2*p + 1)*(f + g*x)^n - c*g^n*(m + n + 2*p + 1)*(d + e*x)^n - g^n*(d + e*x)^(n - 2)*(b*d*e*(p + 1) + a*e^2*(m + n - 1) - c*d^2*(m + n + 2*p + 1) - e*(2*c*d - b*e)*(m + n + p)*x), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p}, x] && IGtQ[n, 1] && IntegerQ[m] && NeQ[m + n + 2*p + 1, 0]`
1268. `Int[((d_) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))^(n_.)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_), x_Symbol] := Simp[(a + b*x + c*x^2)^FracPart[p]/((d + e*x)^FracPart[p]*(a/d + (c*x)/e)^FracPart[p]) Int[(d + e*x)^(m + p)*(f + g*x)^n*(a/d + (c/e)*x)^p, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n}, x] && EqQ[c*d^2 - b*d*e + a*e^2, 0]`
1269. `Int[((d_.) + (e_.)*(x_))^(m_.)*((f_.) + (g_.)*(x_))*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_.), x_Symbol] := Simp[g/e Int[(d + e*x)^(m + 1)*(a + b*x + c*x^2)^p, x], x] + Simp[(e*f - d*g)/e Int[(d + e*x)^m*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p}, x] && !IGtQ[m, 0]`
1270. `Int[((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)/(((d_.) + (e_.)*(x_))*((f_.) + (g_.)*(x_))), x_Symbol] := Simp[(c*d^2 - b*d*e + a*e^2)/(e*(e*f - d*g)) Int[(a + b*x + c*x^2)^(p - 1)/(d + e*x), x], x] - Simp[1/(e*(e*f - d*g)) Int[Simp[c*d*f - b*e*f + a*e*g - c*(e*f - d*g)*x, x]*((a + b*x + c*x^2)^(p - 1)/(f + g*x)), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && FractionQ[p] && GtQ[p, 0]`
1271. `Int[((d_.) + (e_.)*(x_))^(m_.)*Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2], x_Symbol] := Simp[(d + e*x)^(m + 1)*Sqrt[f + g*x]*(Sqrt[a + b*x + c*x^2]/(e*(m + 1))), x] - Simp[1/(2*e*(m + 1)) Int[((d + e*x)^(m + 1)/(Sqrt[f + g*x]*Sqrt[a + b*x + c*x^2]))*Simp[b*f + a*g + 2*(c*f + b*g)*x + 3*c*g*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && IntegerQ[2*m] && LtQ[m, -1]`

1272.  $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})] \text{Sqrt}[(a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2], x_{\text{Symbol}}] \rightarrow \text{Simp}[2*(d + e*x)^{m+1} \text{Sqrt}[f + g*x] * (\text{Sqrt}[a + b*x + c*x^2] / (e*(2*m + 5))), x] - \text{Simp}[1/(e*(2*m + 5)) \text{Int}[\left((d + e*x)^m / (\text{Sqrt}[f + g*x] \text{Sqrt}[a + b*x + c*x^2])\right) * \text{Simp}[b*d*f - 3*a*e*f + a*d*g + 2*(c*d*f - b*e*f + b*d*g - a*e*g)*x - (c*e*f - 3*c*d*g + b*e*g)*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m\}, x] \&\& \text{IntegerQ}[2*m] \&\& !\text{LtQ}[m, -1]$
1273.  $\text{Int}[\left(\left(\left(d_{\cdot}\right) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \text{Sqrt}[(a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2]\right) / \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[2*(d + e*x)^m \text{Sqrt}[f + g*x] * (\text{Sqrt}[a + b*x + c*x^2] / (g*(2*m + 3))), x] - \text{Simp}[1/(g*(2*m + 3)) \text{Int}[\left((d + e*x)^{m-1} / (\text{Sqrt}[f + g*x] \text{Sqrt}[a + b*x + c*x^2])\right) * \text{Simp}[b*d*f + 2*a*(e*f*m - d*g*(m + 1)) + (2*c*d*f - 2*a*e*g + b*(e*f - d*g)*(2*m + 1))*x - (b*e*g + 2*c*(d*g*m - e*f*(m + 1)))*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[2*m] \&\& \text{GtQ}[m, 0]$
1274.  $\text{Int}[\text{Sqrt}[(a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2] / \left(\left(d_{\cdot}\right) + (e_{\cdot})(x_{\cdot})\right) \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[(c*d^2 - b*d*e + a*e^2)/e^2 \text{Int}[1/((d + e*x) \text{Sqrt}[f + g*x] \text{Sqrt}[a + b*x + c*x^2]), x], x] - \text{Simp}[1/e^2 \text{Int}[(c*d - b*e - c*e*x) / (\text{Sqrt}[f + g*x] \text{Sqrt}[a + b*x + c*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x]$
1275.  $\text{Int}[\left(\left(\left(d_{\cdot}\right) + (e_{\cdot})(x_{\cdot})\right)^{m_{\cdot}} \text{Sqrt}[(a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2]\right) / \text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e*x)^{m+1} \text{Sqrt}[f + g*x] * (\text{Sqrt}[a + b*x + c*x^2] / ((m + 1)*(e*f - d*g))), x] - \text{Simp}[1/(2*(m + 1)*(e*f - d*g)) \text{Int}[\left((d + e*x)^{m+1} / (\text{Sqrt}[f + g*x] \text{Sqrt}[a + b*x + c*x^2])\right) * \text{Simp}[b*f + a*g*(2*m + 3) + 2*(c*f + b*g*(m + 2))*x + c*g*(2*m + 5)*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[2*m] \&\& \text{LtQ}[m, -1]$
1276.  $\text{Int}[\text{Sqrt}[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})] / (\text{Sqrt}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})] \text{Sqrt}[(a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2]), x_{\text{Symbol}}] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[\text{Sqrt}[2] \text{Sqrt}[2*c*f - g*(b + q)] \text{Sqrt}[b - q + 2*c*x] * (d + e*x) \text{Sqrt}[(e*f - d*g)*((b + q + 2*c*x) / ((2*c*f - g*(b + q))*(d + e*x)))] * (\text{Sqrt}[(e*f - d*g)*((2*a + (b + q)*x) / ((b*f + q*f - 2*a*g)*(d + e*x)))] / (g* \text{Sqrt}[2*c*d - e*(b + q)] \text{Sqrt}[2*a*(c/(b + q)) + c*x] \text{Sqrt}[a + b*x + c*x^2])) * \text{EllipticPi}[e*((2*c*f - g*(b + q)) / (g*(2*c*d - e*(b + q))))], \text{ArcS}$



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in[Sqrt[2*c*d - e*(b + q)]*(Sqrt[f + g*x]/(Sqrt[2*c*f - g*(b + q)]*Sqr
t[d + e*x]))], (b*d + q*d - 2*a*e)*((2*c*f - g*(b + q))/((b*f + q*f -
2*a*g)*(2*c*d - e*(b + q))))], x]] /; FreeQ[{a, b, c, d, e, f, g}, x]

1277. Int[((d_.) + (e_.)*(x_))^(3/2)/(Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_.) +
(b_.)*(x_) + (c_.)*(x_)^2]), x_Symbol] := Simp[e/g Int[Sqrt[d + e*x]
*(Sqrt[f + g*x]/Sqrt[a + b*x + c*x^2]), x], x] - Simp[(e*f - d*g)/g
Int[Sqrt[d + e*x]/(Sqrt[f + g*x]*Sqrt[a + b*x + c*x^2]), x], x] /; Fre
eQ[{a, b, c, d, e, f, g}, x]

1278. Int[((d_.) + (e_.)*(x_))^(m_)/(Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_.) + (
b_.)*(x_) + (c_.)*(x_)^2]), x_Symbol] := Simp[2*e^2*(d + e*x)^(m - 2)*
Sqrt[f + g*x]*(Sqrt[a + b*x + c*x^2]/(c*g*(2*m - 1))), x] - Simp[1/(c*
g*(2*m - 1)) Int[((d + e*x)^(m - 3)/(Sqrt[f + g*x]*Sqrt[a + b*x + c*
x^2]))*Simp[b*d*e^2*f + a*e^2*(d*g + 2*e*f*(m - 2)) - c*d^3*g*(2*m - 1
) + e*(e*(2*b*d*g + e*(b*f + a*g)*(2*m - 3)) + c*d*(2*e*f - 3*d*g*(2*m
- 1)))*x + 2*e^2*(c*e*f - 3*c*d*g + b*e*g)*(m - 1)*x^2, x], x], x] /;
FreeQ[{a, b, c, d, e, f, g}, x] && IntegerQ[2*m] && GeQ[m, 2]

1279. Int[1/(((d_.) + (e_.)*(x_))*Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_.) + (b_.
)*(x_) + (c_.)*(x_)^2]), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, S
imp[Sqrt[b - q + 2*c*x]*(Sqrt[b + q + 2*c*x]/Sqrt[a + b*x + c*x^2])
Int[1/((d + e*x)*Sqrt[f + g*x]*Sqrt[b - q + 2*c*x]*Sqrt[b + q + 2*c*x]
), x], x]] /; FreeQ[{a, b, c, d, e, f, g}, x]

1280. Int[1/(Sqrt[(d_.) + (e_.)*(x_)]*Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_.) +
(b_.)*(x_) + (c_.)*(x_)^2]), x_Symbol] := Simp[-2*(d + e*x)*(Sqrt[(e*f
- d*g)^2*((a + b*x + c*x^2)/((c*f^2 - b*f*g + a*g^2)*(d + e*x)^2)))]/(
(e*f - d*g)*Sqrt[a + b*x + c*x^2]) Subst[Int[1/Sqrt[1 - (2*c*d*f -
b*e*f - b*d*g + 2*a*e*g)*(x^2/(c*f^2 - b*f*g + a*g^2)) + (c*d^2 - b*d*
e + a*e^2)*(x^4/(c*f^2 - b*f*g + a*g^2))], x], x, Sqrt[f + g*x]/Sqrt[d
+ e*x]], x] /; FreeQ[{a, b, c, d, e, f, g}, x]

1281. Int[1/(((d_.) + (e_.)*(x_))^(3/2)*Sqrt[(f_.) + (g_.)*(x_)]*Sqrt[(a_.)
+ (b_.)*(x_) + (c_.)*(x_)^2]), x_Symbol] := Simp[-g/(e*f - d*g) Int[
1/(Sqrt[d + e*x]*Sqrt[f + g*x]*Sqrt[a + b*x + c*x^2]), x], x] + Simp[e
/(e*f - d*g) Int[Sqrt[f + g*x]/((d + e*x)^(3/2)*Sqrt[a + b*x + c*x^2

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- $$]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x]$$
1282.
$$\text{Int}[\frac{((d_.) + (e_.)(x_))^{(m_)}}{(\text{Sqrt}[(f_.) + (g_.)(x_)]*\text{Sqrt}[(a_.) + (b_.)(x_) + (c_.)(x_)^2])}, x_Symbol] \rightarrow \text{Simp}[e^2*(d + e*x)^{(m + 1)}*\text{Sqrt}[f + g*x]*(\text{Sqrt}[a + b*x + c*x^2]/((m + 1)*(e*f - d*g)*(c*d^2 - b*d*e + a*e^2))), x] + \text{Simp}[1/(2*(m + 1)*(e*f - d*g)*(c*d^2 - b*d*e + a*e^2))] \text{Int}[\frac{((d + e*x)^{(m + 1)}}{(\text{Sqrt}[f + g*x]*\text{Sqrt}[a + b*x + c*x^2])}] * \text{Simp}[2*d*(c*e*f - c*d*g + b*e*g)*(m + 1) - e^2*(b*f + a*g)*(2*m + 3) + 2*e*(c*d*g*(m + 1) - e*(c*f + b*g)*(m + 2))*x - c*e^2*g*(2*m + 5)*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[2*m] \&\& \text{LeQ}[m, -2]$$
1283.
$$\text{Int}[\frac{(((d_.) + (e_.)(x_))^{(m_)}*\text{Sqrt}[(f_.) + (g_.)(x_)])/\text{Sqrt}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[2*e*(d + e*x)^{(m - 1)}*\text{Sqrt}[f + g*x]*(\text{Sqrt}[a + b*x + c*x^2]/(c*(2*m + 1))), x] - \text{Simp}[1/(c*(2*m + 1))] \text{Int}[\frac{((d + e*x)^{(m - 2)}}{(\text{Sqrt}[f + g*x]*\text{Sqrt}[a + b*x + c*x^2])}] * \text{Simp}[e*(b*d*f + a*(d*g + 2*e*f*(m - 1))) - c*d^2*f*(2*m + 1) + (a*e^2*g*(2*m - 1) - c*d*(4*e*f*m + d*g*(2*m + 1)) + b*e*(2*d*g + e*f*(2*m - 1)))*x + e*(2*b*e*g*m - c*(e*f + d*g*(4*m - 1)))*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[2*m] \&\& \text{GtQ}[m, 1]$$
1284.
$$\text{Int}[\frac{\text{Sqrt}[(f_.) + (g_.)(x_)]}{(((d_.) + (e_.)(x_))*\text{Sqrt}[(a_.) + (b_.)(x_) + (c_.)(x_)^2])}, x_Symbol] \rightarrow \text{Simp}[g/e \text{Int}[1/(\text{Sqrt}[f + g*x]*\text{Sqrt}[a + b*x + c*x^2])], x], x] + \text{Simp}[(e*f - d*g)/e \text{Int}[1/((d + e*x)*\text{Sqrt}[f + g*x]*\text{Sqrt}[a + b*x + c*x^2])], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x]$$
1285.
$$\text{Int}[\frac{(((d_.) + (e_.)(x_))^{(m_)}*\text{Sqrt}[(f_.) + (g_.)(x_)])/\text{Sqrt}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[e*(d + e*x)^{(m + 1)}*\text{Sqrt}[f + g*x]*(\text{Sqrt}[a + b*x + c*x^2]/((m + 1)*(c*d^2 - b*d*e + a*e^2))), x] + \text{Simp}[1/(2*(m + 1)*(c*d^2 - b*d*e + a*e^2))] \text{Int}[\frac{((d + e*x)^{(m + 1)}}{(\text{Sqrt}[f + g*x]*\text{Sqrt}[a + b*x + c*x^2])}] * \text{Simp}[2*c*d*f*(m + 1) - e*(a*g + b*f*(2*m + 3)) - 2*(b*e*g*(2 + m) - c*(d*g*(m + 1) - e*f*(m + 2)))*x - c*e*g*(2*m + 5)*x^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[2*m] \&\& \text{LeQ}[m, -2]$$

1286. $\text{Int}[\frac{((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(n_{\cdot})}((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}}{((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\frac{(c*d^2 - b*d*e + a*e^2)}{(e*(e*f - d*g))} \text{Int}[(f + g*x)^{(n + 1)}((a + b*x + c*x^2)^{(p - 1)}(d + e*x)), x], x] - \text{Simp}[1/(e*(e*f - d*g)) \text{Int}[(f + g*x)^n*(c*d*f - b*e*f + a*e*g - c*(e*f - d*g)*x)*(a + b*x + c*x^2)^{(p - 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& !\text{IntegerQ}[n] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[n, -1]$
1287. $\text{Int}[\frac{((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(n_{\cdot})}((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}}{((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))}, x_{\text{Symbol}}] \rightarrow \text{Simp}[e*((e*f - d*g)/(c*d^2 - b*d*e + a*e^2)) \text{Int}[(f + g*x)^{(n - 1)}((a + b*x + c*x^2)^{(p + 1)}(d + e*x)), x], x] + \text{Simp}[1/(c*d^2 - b*d*e + a*e^2) \text{Int}[(f + g*x)^{(n - 1)}*(c*d*f - b*e*f + a*e*g - c*(e*f - d*g)*x)*(a + b*x + c*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& !\text{IntegerQ}[n] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[n, 0]$
1288. $\text{Int}[\frac{((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(n_{\cdot})}}{((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))\sqrt{(a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2)}}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[1/(\sqrt{f + g*x}*\sqrt{a + b*x + c*x^2})], (f + g*x)^{(n + 1/2)}/(d + e*x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[n + 1/2]$
1289. $\text{Int}[\frac{((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))^{(m_{\cdot})}((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(n_{\cdot})}((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}}{((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)^m*(f + g*x)^n*(a + b*x + c*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& (\text{IntegerQ}[p] \|\ (\text{ILtQ}[m, 0] \&\& \text{ILtQ}[n, 0]))$
1290. $\text{Int}[\frac{((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))^{(m_{\cdot})}((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(n_{\cdot})}((a_{\cdot}) + (b_{\cdot})(x_{\cdot}) + (c_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}}{((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))}, x_{\text{Symbol}}] \rightarrow \text{With}[\{Q = \text{PolynomialQuotient}[(f + g*x)^n, d + e*x, x], R = \text{PolynomialRemainder}[(f + g*x)^n, d + e*x, x]\}, \text{Simp}[(e*R*(d + e*x)^{(m + 1)}*(a + b*x + c*x^2)^{(p + 1)})/((m + 1)*(c*d^2 - b*d*e + a*e^2)), x] + \text{Simp}[1/((m + 1)*(c*d^2 - b*d*e + a*e^2)) \text{Int}[(d + e*x)^{(m + 1)}*(a + b*x + c*x^2)^p*\text{ExpandToSum}[(m + 1)*(c*d^2 - b*d*e + a*e^2)*Q + c*d*R*(m + 1) - b*e*R*(m + p + 2) - c*e*R*(m + 2*p + 3)*x, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, p\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{LtQ}[m, -1]$

1291. $\text{Int}[(d_.) + (e_.)(x_)^{(m_.)}((f_.) + (g_.)(x_)^{(n_.)}((a_.) + (b_.)(x_) + (c_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[g^n(d + ex)^{(m+n-1)}((a + bx + cx^2)^{(p+1)} / (c e^{(n-1)}(m+n+2p+1))), x] + \text{Simp}[1/(c e^n(m+n+2p+1)) \text{Int}[(d + ex)^m(a + bx + cx^2)^p \text{ExpandToSum}[c e^n(m+n+2p+1)(f + gx)^n - c g^n(m+n+2p+1)(d + ex)^n - g^n(d + ex)^{(n-2)}(b d e(p+1) + a e^{2(m+n-1)} - c d^2(m+n+2p+1) - e(2 c d - b e)(m+n+p)x), x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{NeQ}[m + n + 2p + 1, 0]$
1292. $\text{Int}[(d_.) + (e_.)(x_)^{(m_.)}((f_.) + (g_.)(x_)^{(n_.)}((a_.) + (b_.)(x_) + (c_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(d + ex)^m(f + gx)^n(a + bx + cx^2)^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x]$
1293. $\text{Int}[(d_.) + (e_.)(u_)^{(m_.)}((f_.) + (g_.)(u_)^{(n_.)}((a_.) + (b_.)(u_) + (c_.)(u_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[(d + ex)^m(f + gx)^n(a + bx + cx^2)^p, x], x, u], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
1294. $\text{Int}[(a_.) + (b_.)(x_) + (c_.)(x_)^2)^{(p_.)}((d_.) + (e_.)(x_) + (f_.)(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[1/c^p \text{Int}[(b/2 + cx)^{(2p)}(d + ex + f x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, q\}, x] \&\& \text{EqQ}[b^2 - 4 a c, 0] \&\& \text{IntegerQ}[p]$
1295. $\text{Int}[(a_.) + (b_.)(x_) + (c_.)(x_)^2)^{(p_.)}((d_.) + (e_.)(x_) + (f_.)(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[(c/f)^p \text{Int}[(d + ex + f x^2)^{(p+q)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p, q\}, x] \&\& \text{EqQ}[c d - a f, 0] \&\& \text{EqQ}[b d - a e, 0] \&\& (\text{IntegerQ}[p] \parallel \text{GtQ}[c/f, 0]) \&\& (!\text{IntegerQ}[q] \parallel \text{LeafCount}[d + ex + f x^2] \leq \text{LeafCount}[a + bx + cx^2])$
1296. $\text{Int}[(a_.) + (b_.)(x_) + (c_.)(x_)^2)^{(p_.)}((d_.) + (e_.)(x_) + (f_.)(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]}((a + bx + cx^2)^{\text{FracPart}[p]} / (d^{\text{IntPart}[p]}(d + ex + f x^2)^{\text{FracPart}[p]})) \text{Int}[(d + ex + f x^2)^{(p+q)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p, q\}, x] \&\& \text{EqQ}[c d - a f, 0] \&\& \text{EqQ}[b d - a e, 0] \&\& !\text{IntegerQ}[p] \&\& !\text{IntegerQ}[q] \&\&$

!GtQ[c/f, 0]

1297. $\text{Int}[(a + b x + c x^2)^p (d + e x + f x^2)^q, x_Symbol] \rightarrow \text{Simp}[(a + b x + c x^2)^{\text{FracPart}[p]} / ((4c)^{\text{IntPart}[p]} (b + 2c x)^{2\text{FracPart}[p]}) \text{Int}[(b + 2c x)^{2p} (d + e x + f x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p, q\}, x\} \&\& \text{EqQ}[b^2 - 4ac, 0] \&\& \text{IntegerQ}[p]$

1298. $\text{Int}[(a + b x + c x^2)^p (d + f x^2)^q, x_Symbol] \rightarrow \text{Simp}[(a + b x + c x^2)^{\text{FracPart}[p]} / ((4c)^{\text{IntPart}[p]} (b + 2c x)^{2\text{FracPart}[p]}) \text{Int}[(b + 2c x)^{2p} (d + f x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, f, p, q\}, x\} \&\& \text{EqQ}[b^2 - 4ac, 0] \&\& \text{IntegerQ}[p]$

1299. $\text{Int}[(a + b x + c x^2)^p (d + e x + f x^2)^q, x_Symbol] \rightarrow \text{With}\{r = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[1/c^p \text{Int}[\text{ExpandIntegrand}[(b/2 - r/2 + c x)^p (b/2 + r/2 + c x)^p (d + e x + f x^2)^q, x], x], x] /; \text{EqQ}[p, -1] \|\| \text{FractionalPowerFactorQ}[r] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[q] \&\& \text{NiceSqrtQ}[b^2 - 4ac]$

1300. $\text{Int}[(a + b x + c x^2)^p (d + f x^2)^q, x_Symbol] \rightarrow \text{With}\{r = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[1/c^p \text{Int}[\text{ExpandIntegrand}[(b/2 - r/2 + c x)^p (b/2 + r/2 + c x)^p (d + f x^2)^q, x], x], x] /; \text{EqQ}[p, -1] \|\| \text{FractionalPowerFactorQ}[r] /; \text{FreeQ}\{a, b, c, d, f\}, x\} \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[q] \&\& \text{NiceSqrtQ}[b^2 - 4ac]$

1301. $\text{Int}[(a + c x^2)^p (d + e x + f x^2)^q, x_Symbol] \rightarrow \text{With}\{r = \text{Rt}[(-a)c, 2]\}, \text{Simp}[1/c^p \text{Int}[\text{ExpandIntegrand}[(-r + c x)^p (r + c x)^p (d + e x + f x^2)^q, x], x], x] /; \text{EqQ}[p, -1] \|\| \text{FractionalPowerFactorQ}[r] /; \text{FreeQ}\{a, c, d, e, f\}, x\} \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[q] \&\& \text{NiceSqrtQ}[(-a)c]$

1302. $\text{Int}[(a + b x + c x^2)^p (d + e x + f x^2)^q, x_Symbol] \rightarrow \text{Simp}[(b + 2c x)(a + b x + c x^2)^{p+1} (d + e x + f x^2)^q / ((b^2 - 4ac)(p + 1)), x] - \text{Simp}[1/((b^2 - 4ac)(p + 1)) \text{Int}[(a + b x + c x^2)^{p+1} (d + e x + f x^2)^q, x], x]$

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1)*Simp[2*c*d*(2*p + 3) + b*e*q + (2*b*f*q + 2*c*e*(2*p + q + 3))*x +
2*c*f*(2*p + 2*q + 3)*x^2, x], x] /; FreeQ[{a, b, c, d, e, f}, x]
&& NeQ[b^2 - 4*a*c, 0] && NeQ[e^2 - 4*d*f, 0] && LtQ[p, -1] && GtQ[q,
0] && !IGtQ[q, 0]

1303. Int[((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_.) + (f_.)*(x_)^2)^(q
_), x_Symbol] := Simp[(b + 2*c*x)*(a + b*x + c*x^2)^(p + 1)*((d + f*x^
2)^q/((b^2 - 4*a*c)*(p + 1))), x] - Simp[1/((b^2 - 4*a*c)*(p + 1)) I
nt[(a + b*x + c*x^2)^(p + 1)*(d + f*x^2)^(q - 1)*Simp[2*c*d*(2*p + 3)
+ (2*b*f*q)*x + 2*c*f*(2*p + 2*q + 3)*x^2, x], x], x] /; FreeQ[{a, b,
c, d, f}, x] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] && GtQ[q, 0] && !IG
tQ[q, 0]

1304. Int[((a_.) + (c_.)*(x_)^2)^(p_)*((d_.) + (e_.)*(x_) + (f_.)*(x_)^2)^(q
_), x_Symbol] := Simp[(2*c*x)*(a + c*x^2)^(p + 1)*((d + e*x + f*x^2)^q
/((-4*a*c)*(p + 1))), x] - Simp[1/((-4*a*c)*(p + 1)) Int[(a + c*x^2)
^(p + 1)*(d + e*x + f*x^2)^(q - 1)*Simp[2*c*d*(2*p + 3) + (2*c*e*(2*p
+ q + 3))*x + 2*c*f*(2*p + 2*q + 3)*x^2, x], x], x] /; FreeQ[{a, c, d,
e, f}, x] && NeQ[e^2 - 4*d*f] && LtQ[p, -1] && GtQ[q, 0] && !IGtQ[q,
0]

1305. Int[((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_.) + (e_.)*(x_) + (f_
.)*(x_)^2)^(q_), x_Symbol] := Simp[(2*a*c^2*e - b^2*c*e + b^3*f + b*c*
(c*d - 3*a*f) + c*(2*c^2*d + b^2*f - c*(b*e + 2*a*f))*x)*(a + b*x + c*
x^2)^(p + 1)*((d + e*x + f*x^2)^(q + 1)/((b^2 - 4*a*c)*((c*d - a*f)^2
- (b*d - a*e)*(c*e - b*f))*(p + 1))), x] - Simp[1/((b^2 - 4*a*c)*((c*d
- a*f)^2 - (b*d - a*e)*(c*e - b*f))*(p + 1)) Int[(a + b*x + c*x^2)^(
p + 1)*(d + e*x + f*x^2)^q*Simp[2*c*((c*d - a*f)^2 - (b*d - a*e)*(c*e
- b*f))*(p + 1) - (2*c^2*d + b^2*f - c*(b*e + 2*a*f))*(a*f*(p + 1) -
c*d*(p + 2)) - e*(b^2*c*e - 2*a*c^2*e - b^3*f - b*c*(c*d - 3*a*f))*(p
+ q + 2) + (2*f*(2*a*c^2*e - b^2*c*e + b^3*f + b*c*(c*d - 3*a*f))*(p +
q + 2) - (2*c^2*d + b^2*f - c*(b*e + 2*a*f))*(b*f*(p + 1) - c*e*(2*p
+ q + 4)))*x + c*f*(2*c^2*d + b^2*f - c*(b*e + 2*a*f))*(2*p + 2*q + 5)
*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, q}, x] && NeQ[b^2 - 4*a*c
, 0] && NeQ[e^2 - 4*d*f, 0] && LtQ[p, -1] && NeQ[(c*d - a*f)^2 - (b*d
- a*e)*(c*e - b*f), 0] && !(!IntegerQ[p] && ILtQ[q, -1]) && !IGtQ[q
, 0]

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1306. `Int[((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_.) + (f_.)*(x_)^2)^(q_), x_Symbol] := Simp[(b^3*f + b*c*(c*d - 3*a*f) + c*(2*c^2*d + b^2*f - c*(2*a*f))*x]*(a + b*x + c*x^2)^(p + 1)*((d + f*x^2)^(q + 1)/((b^2 - 4*a*c)*(b^2*d*f + (c*d - a*f)^2)*(p + 1))), x] - Simp[1/((b^2 - 4*a*c)*(b^2*d*f + (c*d - a*f)^2)*(p + 1)) Int[(a + b*x + c*x^2)^(p + 1)*(d + f*x^2)^q*Simp[2*c*(b^2*d*f + (c*d - a*f)^2)*(p + 1) - (2*c^2*d + b^2*f - c*(2*a*f))*(a*f*(p + 1) - c*d*(p + 2)) + (2*f*(b^3*f + b*c*(c*d - 3*a*f))*(p + q + 2) - (2*c^2*d + b^2*f - c*(2*a*f))*(b*f*(p + 1)))*x + c*f*(2*c^2*d + b^2*f - c*(2*a*f))*(2*p + 2*q + 5)*x^2, x], x] /; FreeQ[{a, b, c, d, f, q}, x] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] && NeQ[b^2*d*f + (c*d - a*f)^2, 0] && !(IntegerQ[p] && ILtQ[q, -1]) && !IGtQ[q, 0]`
1307. `Int[((a_.) + (c_.)*(x_)^2)^(p_)*((d_.) + (e_.)*(x_) + (f_.)*(x_)^2)^(q_), x_Symbol] := Simp[(2*a*c^2*e + c*(2*c^2*d - c*(2*a*f))*x]*(a + c*x^2)^(p + 1)*((d + e*x + f*x^2)^(q + 1)/((-4*a*c)*(a*c*e^2 + (c*d - a*f)^2)*(p + 1))), x] - Simp[1/((-4*a*c)*(a*c*e^2 + (c*d - a*f)^2)*(p + 1)) Int[(a + c*x^2)^(p + 1)*(d + e*x + f*x^2)^q*Simp[2*c*((c*d - a*f)^2 - ((-a)*e)*(c*e))*(p + 1) - (2*c^2*d - c*(2*a*f))*(a*f*(p + 1) - c*d*(p + 2)) - e*(-2*a*c^2*e)*(p + q + 2) + (2*f*(2*a*c^2*e)*(p + q + 2) - (2*c^2*d - c*(2*a*f))*((-c)*e*(2*p + q + 4)))*x + c*f*(2*c^2*d - c*(2*a*f))*(2*p + 2*q + 5)*x^2, x], x] /; FreeQ[{a, c, d, e, f, q}, x] && NeQ[e^2 - 4*d*f, 0] && LtQ[p, -1] && NeQ[a*c*e^2 + (c*d - a*f)^2, 0] && !(IntegerQ[p] && ILtQ[q, -1]) && !IGtQ[q, 0]`
1308. `Int[((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_.) + (e_.)*(x_) + (f_.)*(x_)^2)^(q_), x_Symbol] := Simp[(b*f*(3*p + 2*q) - c*e*(2*p + q) + 2*c*f*(p + q)*x]*(a + b*x + c*x^2)^(p - 1)*((d + e*x + f*x^2)^(q + 1)/(2*f^2*(p + q)*(2*p + 2*q + 1))), x] - Simp[1/(2*f^2*(p + q)*(2*p + 2*q + 1)) Int[(a + b*x + c*x^2)^(p - 2)*(d + e*x + f*x^2)^q*Simp[(b*d - a*e)*(c*e - b*f)*(1 - p)*(2*p + q) - (p + q)*(b^2*d*f*(1 - p) - a*(f*(b*e - 2*a*f)*(2*p + 2*q + 1) + c*(2*d*f - e^2*(2*p + q)))] + (2*(c*d - a*f)*(c*e - b*f)*(1 - p)*(2*p + q) - (p + q)*((b^2 - 4*a*c)*e*f*(1 - p) + b*(c*(e^2 - 4*d*f)*(2*p + q) + f*(2*c*d - b*e + 2*a*f)*(2*p + 2*q + 1)))*x + ((c*e - b*f)^2*(1 - p)*p + c*(p + q)*(f*(b*e - 2*a*f)*(4*p + 2*q - 1) - c*(2*d*f*(1 - 2*p) + e^2*(3*p + q - 1)))]*x^2, x], x] /; FreeQ[{a, b, c, d, e, f, q}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[e^2 - 4*d*f, 0] && GtQ[p, 1] && NeQ[p + q, 0] && NeQ[2*p + 2*q + 1, 0]`

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&& !IGtQ[p, 0] && !IGtQ[q, 0]

1309. Int[((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_.) + (f_.)*(x_)^2)^(q
_), x_Symbol] := Simp[(b*(3*p + 2*q) + 2*c*(p + q)*x)*(a + b*x + c*x^2
)^(p - 1)*((d + f*x^2)^(q + 1)/(2*f*(p + q)*(2*p + 2*q + 1))), x] - Si
mp[1/(2*f*(p + q)*(2*p + 2*q + 1)) Int[(a + b*x + c*x^2)^(p - 2)*(d
+ f*x^2)^q*Simp[b^2*d*(p - 1)*(2*p + q) - (p + q)*(b^2*d*(1 - p) - 2*a
*(c*d - a*f*(2*p + 2*q + 1))) - (2*b*(c*d - a*f)*(1 - p)*(2*p + q) - 2
*(p + q)*b*(2*c*d*(2*p + q) - (c*d + a*f)*(2*p + 2*q + 1)))*x + (b^2*f
*p*(1 - p) + 2*c*(p + q)*(c*d*(2*p - 1) - a*f*(4*p + 2*q - 1)))*x^2, x
], x], x] /; FreeQ[{a, b, c, d, f, q}, x] && NeQ[b^2 - 4*a*c, 0] && Gt
Q[p, 1] && NeQ[p + q, 0] && NeQ[2*p + 2*q + 1, 0] && !IGtQ[p, 0] &&
!IGtQ[q, 0]

1310. Int[((a_.) + (c_.)*(x_)^2)^(p_)*((d_.) + (e_.)*(x_) + (f_.)*(x_)^2)^(q
_), x_Symbol] := Simp[(-c)*(e*(2*p + q) - 2*f*(p + q)*x)*(a + c*x^2)^(
p - 1)*((d + e*x + f*x^2)^(q + 1)/(2*f^2*(p + q)*(2*p + 2*q + 1))), x]
- Simp[1/(2*f^2*(p + q)*(2*p + 2*q + 1)) Int[(a + c*x^2)^(p - 2)*(d
+ e*x + f*x^2)^q*Simp[(-a)*c*e^2*(1 - p)*(2*p + q) + a*(p + q)*(-2*a*
f^2*(2*p + 2*q + 1) + c*(2*d*f - e^2*(2*p + q))) + (2*(c*d - a*f)*(c*e
)*(1 - p)*(2*p + q) + 4*a*c*e*f*(1 - p)*(p + q))*x + (p*c^2*e^2*(1 - p
) - c*(p + q)*(2*a*f^2*(4*p + 2*q - 1) + c*(2*d*f*(1 - 2*p) + e^2*(3*p
+ q - 1)))]*x^2, x], x], x] /; FreeQ[{a, c, d, e, f, q}, x] && NeQ[e^
2 - 4*d*f, 0] && GtQ[p, 1] && NeQ[p + q, 0] && NeQ[2*p + 2*q + 1, 0] &
& !IGtQ[p, 0] && !IGtQ[q, 0]

1311. Int[1/(((a_) + (b_.)*(x_) + (c_.)*(x_)^2)*((d_) + (e_.)*(x_) + (f_.)*(
x_)^2)), x_Symbol] := With[{q = c^2*d^2 - b*c*d*e + a*c*e^2 + b^2*d*f
- 2*a*c*d*f - a*b*e*f + a^2*f^2}, Simp[1/q Int[(c^2*d - b*c*e + b^2*
f - a*c*f - (c^2*e - b*c*f)*x)/(a + b*x + c*x^2), x], x] + Simp[1/q
Int[(c*e^2 - c*d*f - b*e*f + a*f^2 + (c*e*f - b*f^2)*x)/(d + e*x + f*x
^2), x], x] /; NeQ[q, 0] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b^2 -
4*a*c, 0] && NeQ[e^2 - 4*d*f, 0]

1312. Int[1/(((a_) + (b_.)*(x_) + (c_.)*(x_)^2)*((d_) + (f_.)*(x_)^2)), x_Sy
mbol] := With[{q = c^2*d^2 + b^2*d*f - 2*a*c*d*f + a^2*f^2}, Simp[1/q
Int[(c^2*d + b^2*f - a*c*f + b*c*f*x)/(a + b*x + c*x^2), x], x] - Si

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mp[1/q Int[(c*d*f - a*f^2 + b*f^2*x)/(d + f*x^2), x], x] /; NeQ[q, 0]
]] /; FreeQ[{a, b, c, d, f}, x] && NeQ[b^2 - 4*a*c, 0]

1313. Int[1/(((a_) + (b_)*(x_) + (c_)*(x_)^2)*Sqrt[(d_) + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] := Simp[-2*e Subst[Int[1/(e*(b*e - 4*a*f) - (b*d - a*e)*x^2), x], x, (e + 2*f*x)/Sqrt[d + e*x + f*x^2]], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[e^2 - 4*d*f, 0] && EqQ[c*e - b*f, 0]

1314. Int[1/(((a_) + (b_)*(x_) + (c_)*(x_)^2)*Sqrt[(d_) + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[2*(c/q) Int[1/((b - q + 2*c*x)*Sqrt[d + e*x + f*x^2]), x], x] - Simp[2*(c/q) Int[1/((b + q + 2*c*x)*Sqrt[d + e*x + f*x^2]), x], x]] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[e^2 - 4*d*f, 0] && NeQ[c*e - b*f, 0] && PosQ[b^2 - 4*a*c]

1315. Int[1/(((a_) + (b_)*(x_) + (c_)*(x_)^2)*Sqrt[(d_) + (f_)*(x_)^2]), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[2*(c/q) Int[1/((b - q + 2*c*x)*Sqrt[d + f*x^2]), x], x] - Simp[2*(c/q) Int[1/((b + q + 2*c*x)*Sqrt[d + f*x^2]), x], x]] /; FreeQ[{a, b, c, d, f}, x] && NeQ[b^2 - 4*a*c, 0] && PosQ[b^2 - 4*a*c]

1316. Int[1/(((a_) + (c_)*(x_)^2)*Sqrt[(d_) + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] := Simp[1/2 Int[1/((a - Rt[(-a)*c, 2]*x)*Sqrt[d + e*x + f*x^2]), x], x] + Simp[1/2 Int[1/((a + Rt[(-a)*c, 2]*x)*Sqrt[d + e*x + f*x^2]), x], x] /; FreeQ[{a, c, d, e, f}, x] && NeQ[e^2 - 4*d*f, 0] && PosQ[(-a)*c]

1317. Int[1/(((a_) + (b_)*(x_) + (c_)*(x_)^2)*Sqrt[(d_) + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] := With[{q = Rt[(c*d - a*f)^2 - (b*d - a*e)*(c*e - b*f), 2]}, Simp[1/(2*q) Int[(c*d - a*f + q + (c*e - b*f)*x)/((a + b*x + c*x^2)*Sqrt[d + e*x + f*x^2]), x], x] - Simp[1/(2*q) Int[(c*d - a*f - q + (c*e - b*f)*x)/((a + b*x + c*x^2)*Sqrt[d + e*x + f*x^2]), x], x]] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[e^2 - 4*d*f, 0] && NeQ[c*e - b*f, 0] && NegQ[b^2 - 4*a*c]

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1318. `Int[1/(((a_.) + (c_.)*(x_)^2)*Sqrt[(d_.) + (e_.)*(x_) + (f_.)*(x_)^2])  
, x_Symbol] := With[{q = Rt[(c*d - a*f)^2 + a*c*e^2, 2]}, Simp[1/(2*q)  
Int[(c*d - a*f + q + c*e*x)/((a + c*x^2)*Sqrt[d + e*x + f*x^2]), x]  
, x] - Simp[1/(2*q) Int[(c*d - a*f - q + c*e*x)/((a + c*x^2)*Sqrt[d  
+ e*x + f*x^2]), x], x]] /; FreeQ[{a, c, d, e, f}, x] && NeQ[e^2 - 4*d  
*f, 0] && NegQ[(-a)*c]`
1319. `Int[1/(((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)*Sqrt[(d_.) + (f_.)*(x_)^2])  
, x_Symbol] := With[{q = Rt[(c*d - a*f)^2 + b^2*d*f, 2]}, Simp[1/(2*q)  
Int[(c*d - a*f + q + ((-b)*f)*x)/((a + b*x + c*x^2)*Sqrt[d + f*x^2]  
), x], x] - Simp[1/(2*q) Int[(c*d - a*f - q + ((-b)*f)*x)/((a + b*x  
+ c*x^2)*Sqrt[d + f*x^2]), x], x]] /; FreeQ[{a, b, c, d, f}, x] && NeQ  
[b^2 - 4*a*c, 0] && NegQ[b^2 - 4*a*c]`
1320. `Int[Sqrt[(a_) + (b_.)*(x_) + (c_.)*(x_)^2]/((d_) + (e_.)*(x_) + (f_.)*  
(x_)^2), x_Symbol] := Simp[c/f Int[1/Sqrt[a + b*x + c*x^2], x], x] -  
Simp[1/f Int[(c*d - a*f + (c*e - b*f)*x)/(Sqrt[a + b*x + c*x^2]*(d  
+ e*x + f*x^2)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b^2 - 4  
*a*c, 0] && NeQ[e^2 - 4*d*f, 0]`
1321. `Int[Sqrt[(a_) + (b_.)*(x_) + (c_.)*(x_)^2]/((d_) + (f_.)*(x_)^2), x_Sy  
mbol] := Simp[c/f Int[1/Sqrt[a + b*x + c*x^2], x], x] - Simp[1/f I  
nt[(c*d - a*f - b*f*x)/(Sqrt[a + b*x + c*x^2]*(d + f*x^2)), x], x] /;  
FreeQ[{a, b, c, d, f}, x] && NeQ[b^2 - 4*a*c, 0]`
1322. `Int[Sqrt[(a_) + (c_.)*(x_)^2]/((d_) + (e_.)*(x_) + (f_.)*(x_)^2), x_Sy  
mbol] := Simp[c/f Int[1/Sqrt[a + c*x^2], x], x] - Simp[1/f Int[(c*  
d - a*f + c*e*x)/(Sqrt[a + c*x^2]*(d + e*x + f*x^2)), x], x] /; FreeQ[  
{a, c, d, e, f}, x] && NeQ[e^2 - 4*d*f, 0]`
1323. `Int[1/(Sqrt[(a_) + (b_.)*(x_) + (c_.)*(x_)^2]*Sqrt[(d_) + (e_.)*(x_) +  
(f_.)*(x_)^2]), x_Symbol] := With[{r = Rt[b^2 - 4*a*c, 2]}, Simp[Sqrt  
[b + r + 2*c*x]*(Sqrt[2*a + (b + r)*x]/Sqrt[a + b*x + c*x^2]) Int[1/  
(Sqrt[b + r + 2*c*x]*Sqrt[2*a + (b + r)*x]*Sqrt[d + e*x + f*x^2]), x],  
x]] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[e^2  
- 4*d*f, 0]`

1324.  $\text{Int}[1/(\text{Sqrt}[(a\_)+(b\_)(x\_)+(c\_)(x\_)^2]*\text{Sqrt}[(d\_)+(f\_)(x\_)^2]), x\_Symbol] \rightarrow \text{With}[\{r = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[\text{Sqrt}[b + r + 2*c*x]*(\text{Sqrt}[2*a + (b + r)*x]/\text{Sqrt}[a + b*x + c*x^2]) \text{Int}[1/(\text{Sqrt}[b + r + 2*c*x]*\text{Sqrt}[2*a + (b + r)*x]*\text{Sqrt}[d + f*x^2]), x], x]] /; \text{FreeQ}[\{a, b, c, d, f\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
1325.  $\text{Int}[(a\_)+(b\_)(x\_)+(c\_)(x\_)^2]^{(p\_)}*((d\_)+(e\_)(x\_)+(f\_)(x\_)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Unintegrable}[(a + b*x + c*x^2)^p*(d + e*x + f*x^2)^q, x] /; \text{FreeQ}[\{a, b, c, d, e, f, p, q\}, x] \&\& !\text{IGtQ}[p, 0] \&\& !\text{IGtQ}[q, 0]$
1326.  $\text{Int}[(a\_)+(c\_)(x\_)^2]^{(p\_)}*((d\_)+(e\_)(x\_)+(f\_)(x\_)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Unintegrable}[(a + c*x^2)^p*(d + e*x + f*x^2)^q, x] /; \text{FreeQ}[\{a, c, d, e, f, p, q\}, x] \&\& !\text{IGtQ}[p, 0] \&\& !\text{IGtQ}[q, 0]$
1327.  $\text{Int}[(a\_)+(b\_)(u\_)+(c\_)(u\_)^2]^{(p\_)}*((d\_)+(e\_)(u\_)+(f\_)(u\_)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[(a + b*x + c*x^2)^p*(d + e*x + f*x^2)^q, x], x, u], x] /; \text{FreeQ}[\{a, b, c, d, e, f, p, q\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
1328.  $\text{Int}[(a\_)+(c\_)(u\_)^2]^{(p\_)}*((d\_)+(e\_)(u\_)+(f\_)(u\_)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[(a + c*x^2)^p*(d + e*x + f*x^2)^q, x], x, u], x] /; \text{FreeQ}[\{a, c, d, e, f, p, q\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
1329.  $\text{Int}[(g\_)+(h\_)(x\_)]^{(m\_)}*((a\_)+(b\_)(x\_)+(c\_)(x\_)^2)^{(p\_)}*((d\_)+(e\_)(x\_)+(f\_)(x\_)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[(c/f)^p \text{Int}[(g + h*x)^m*(d + e*x + f*x^2)^{(p+q)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, p, q\}, x] \&\& \text{EqQ}[c*d - a*f, 0] \&\& \text{EqQ}[b*d - a*e, 0] \&\& (\text{IntegerQ}[p] || \text{GtQ}[c/f, 0]) \&\& (!\text{IntegerQ}[q] || \text{LeafCount}[d + e*x + f*x^2] <= \text{LeafCount}[a + b*x + c*x^2])$
1330.  $\text{Int}[(g\_)+(h\_)(x\_)]^{(m\_)}*((a\_)+(b\_)(x\_)+(c\_)(x\_)^2)^{(p\_)}*((d\_)+(e\_)(x\_)+(f\_)(x\_)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]}*((a + b*x + c*x^2)^{\text{FracPart}[p]}/(d^{\text{IntPart}[p]}*(d + e*x + f*x^2)^{\text{FracPart}[p]})) \text{Int}[(g + h*x)^m*(d + e*x + f*x^2)^{(p+q)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, p, q\}, x] \&\& \text{EqQ}[c*d - a*f, 0] \&\& \text{EqQ}[b*d -$

$a * e, 0] \&\& !\text{IntegerQ}[p] \&\& !\text{IntegerQ}[q] \&\& !\text{GtQ}[c/f, 0]$

1331.  $\text{Int}[(g_{.}) + (h_{.})(x_{.})]^{(m_{.})} * ((a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2)^{(p_{.})} * ((d_{.}) + (e_{.})(x_{.}) + (f_{.})(x_{.})^2)^{(q_{.})}, x\_Symbol] \rightarrow \text{Simp}[1/c^p \text{Int}[(g + h*x)^m * (b/2 + c*x)^{(2*p)} * (d + e*x + f*x^2)^q, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, g, h, m, q\}, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$

1332.  $\text{Int}[(g_{.}) + (h_{.})(x_{.})]^{(m_{.})} * ((a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2)^{(p_{.})} * ((d_{.}) + (f_{.})(x_{.})^2)^{(q_{.})}, x\_Symbol] \rightarrow \text{Simp}[1/c^p \text{Int}[(g + h*x)^m * (b/2 + c*x)^{(2*p)} * (d + f*x^2)^q, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, f, g, h, m, q\}, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$

1333.  $\text{Int}[(g_{.}) + (h_{.})(x_{.})]^{(m_{.})} * ((a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2)^{(p_{.})} * ((d_{.}) + (e_{.})(x_{.}) + (f_{.})(x_{.})^2)^{(q_{.})}, x\_Symbol] \rightarrow \text{Simp}[(a + b*x + c*x^2)^{\text{FracPart}[p]} / ((4*c)^{\text{IntPart}[p]} * (b + 2*c*x)^{(2*\text{FracPart}[p])}) \text{Int}[(g + h*x)^m * (b + 2*c*x)^{(2*p)} * (d + e*x + f*x^2)^q, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, g, h, m, p, q\}, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$

1334.  $\text{Int}[(g_{.}) + (h_{.})(x_{.})]^{(m_{.})} * ((a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2)^{(p_{.})} * ((d_{.}) + (f_{.})(x_{.})^2)^{(q_{.})}, x\_Symbol] \rightarrow \text{Simp}[(a + b*x + c*x^2)^{\text{FracPart}[p]} / ((4*c)^{\text{IntPart}[p]} * (b + 2*c*x)^{(2*\text{FracPart}[p])}) \text{Int}[(g + h*x)^m * (b + 2*c*x)^{(2*p)} * (d + f*x^2)^q, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, f, g, h, m, p, q\}, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$

1335.  $\text{Int}[(g_{.}) + (h_{.})(x_{.})]^{(m_{.})} * ((a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2)^{(p_{.})} * ((d_{.}) + (e_{.})(x_{.}) + (f_{.})(x_{.})^2)^{(m_{.})}, x\_Symbol] \rightarrow \text{Int}[(d*(g/a) + f*h*(x/c))^m * (a + b*x + c*x^2)^{(m+p)}, x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, g, h, p\}, x] \&\& \text{EqQ}[c*g^2 - b*g*h + a*h^2, 0] \&\& \text{EqQ}[c^2*d*g^2 - a*c*e*g*h + a^2*f*h^2, 0] \&\& \text{IntegerQ}[m]$

1336.  $\text{Int}[(g_{.}) + (h_{.})(x_{.})]^{(m_{.})} * ((a_{.}) + (c_{.})(x_{.})^2)^{(p_{.})} * ((d_{.}) + (e_{.})(x_{.}) + (f_{.})(x_{.})^2)^{(m_{.})}, x\_Symbol] \rightarrow \text{Int}[(d*(g/a) + f*h*(x/c))^m * (a + c*x^2)^{(m+p)}, x] /;$   $\text{FreeQ}[\{a, c, d, e, f, g, h, p\}, x] \&\& \text{EqQ}[c*g^2 + a*h^2, 0] \&\& \text{EqQ}[c^2*d*g^2 - a*c*e*g*h + a^2*f*h^2, 0] \&\& \text{IntegerQ}[m]$

gerQ[m]

1337.  $\text{Int}[(g_ + (h_)(x_))^{(m_)}((a_ + (b_)(x_ + (c_)(x_)^2)^{(p_)}((d_ + (f_)(x_)^2)^{(m_)}), x\_Symbol] \rightarrow \text{Int}[(d(g/a) + f h(x/c))^{m(a + b x + c x^2)^{(m+p)}, x] /; \text{FreeQ}\{a, b, c, d, f, g, h, p\}, x] \&\& \text{EqQ}[c g^2 - b g h + a h^2, 0] \&\& \text{EqQ}[c^2 d g^2 + a^2 f h^2, 0] \&\& \text{IntegerQ}[m]$
1338.  $\text{Int}[(g_ + (h_)(x_))^{(m_)}((a_ + (c_)(x_)^2)^{(p_)}((d_ + (f_)(x_)^2)^{(m_)}), x\_Symbol] \rightarrow \text{Int}[(d(g/a) + f h(x/c))^{m(a + c x^2)^{(m+p)}, x] /; \text{FreeQ}\{a, c, d, f, g, h, p\}, x] \&\& \text{EqQ}[c g^2 + a h^2, 0] \&\& \text{EqQ}[c^2 d g^2 + a^2 f h^2, 0] \&\& \text{IntegerQ}[m]$
1339.  $\text{Int}[(x_)^{(p_)}((a_ + (b_)(x_ + (c_)(x_)^2)^{(p_)}((e_)(x_ + (f_)(x_)^2)^{(q_)}), x\_Symbol] \rightarrow \text{Int}[(a/e + (c/f)x)^p(e x + f x^2)^{(p+q)}, x] /; \text{FreeQ}\{a, b, c, e, f, q\}, x] \&\& \text{NeQ}[b^2 - 4 a c, 0] \&\& \text{EqQ}[c e^2 - b e f + a f^2, 0] \&\& \text{IntegerQ}[p]$
1340.  $\text{Int}[(x_)^{(p_)}((a_ + (c_)(x_)^2)^{(p_)}((e_)(x_ + (f_)(x_)^2)^{(q_)}), x\_Symbol] \rightarrow \text{Int}[(a/e + (c/f)x)^p(e x + f x^2)^{(p+q)}, x] /; \text{FreeQ}\{a, c, e, f, q\}, x] \&\& \text{EqQ}[c e^2 + a f^2, 0] \&\& \text{IntegerQ}[p]$
1341.  $\text{Int}[(g_ + (h_)(x_))/((a_ + (c_)(x_)^2)^{(1/3)}((d_ + (f_)(x_)^2))], x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[3] h (\text{ArcTan}[1/\text{Sqrt}[3] - 2^{(2/3)}((1 - 3 h(x/g))^{(2/3)}/(\text{Sqrt}[3](1 + 3 h(x/g))^{(1/3)})]) / (2^{(2/3)} a^{(1/3)} f)], x] + (-\text{Simp}[3 h (\text{Log}[(1 - 3 h(x/g))^{(2/3)} + 2^{(1/3)}(1 + 3 h(x/g))^{(1/3)}]) / (2^{(5/3)} a^{(1/3)} f)], x] + \text{Simp}[h (\text{Log}[d + f x^2] / (2^{(5/3)} a^{(1/3)} f)], x]) /; \text{FreeQ}\{a, c, d, f, g, h\}, x] \&\& \text{EqQ}[c d + 3 a f, 0] \&\& \text{EqQ}[c g^2 + 9 a h^2, 0] \&\& \text{GtQ}[a, 0]$
1342.  $\text{Int}[(g_ + (h_)(x_))/((a_ + (c_)(x_)^2)^{(1/3)}((d_ + (f_)(x_)^2))], x\_Symbol] \rightarrow \text{Simp}[(1 + c(x^2/a))^{(1/3)}/(a + c x^2)^{(1/3)} \text{Int}[(g + h x)/((1 + c(x^2/a))^{(1/3)}(d + f x^2)), x], x] /; \text{FreeQ}\{a, c, d, f, g, h\}, x] \&\& \text{EqQ}[c d + 3 a f, 0] \&\& \text{EqQ}[c g^2 + 9 a h^2, 0] \&\& !\text{GtQ}[a, 0]$

1343.  $\text{Int}[(g\_.) + (h\_.)*(x\_)]*((a\_.) + (c\_.)*(x\_)^2)^{(p\_)}*((d\_.) + (f\_.)*(x\_)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[g \text{ Int}[(a + c*x^2)^p*(d + f*x^2)^q, x], x] + \text{Simp}[h \text{ Int}[x*(a + c*x^2)^p*(d + f*x^2)^q, x], x] /; \text{FreeQ}[\{a, c, d, f, g, h, p, q\}, x]$
1344.  $\text{Int}[(g\_.) + (h\_.)*(x\_)]*((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)^{(p\_)}*((d\_.) + (e\_.)*(x\_.) + (f\_.)*(x\_.)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*x + c*x^2)^p*(d + e*x + f*x^2)^q*(g + h*x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{IntegerQ}[q]$
1345.  $\text{Int}[(g\_.) + (h\_.)*(x\_)]*((a\_.) + (c\_.)*(x\_.)^2)^{(p\_)}*((d\_.) + (e\_.)*(x\_.) + (f\_.)*(x\_.)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + c*x^2)^p*(d + e*x + f*x^2)^q*(g + h*x), x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{IntegersQ}[p, q] \&\& (\text{GtQ}[p, 0] \parallel \text{GtQ}[q, 0])$
1346.  $\text{Int}[(g\_.) + (h\_.)*(x\_)]*((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)^{(p\_)}*((d\_.) + (e\_.)*(x\_.) + (f\_.)*(x\_.)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[(g*b - 2*a*h - (b*h - 2*g*c)*x)*(a + b*x + c*x^2)^{(p+1)}*((d + e*x + f*x^2)^q/((b^2 - 4*a*c)*(p+1))), x] - \text{Simp}[1/((b^2 - 4*a*c)*(p+1)) \text{ Int}[(a + b*x + c*x^2)^{(p+1)}*(d + e*x + f*x^2)^{(q-1)}*\text{Simp}[e*q*(g*b - 2*a*h) - d*(b*h - 2*g*c)*(2*p+3) + (2*f*q*(g*b - 2*a*h) - e*(b*h - 2*g*c)*(2*p+q+3))*x - f*(b*h - 2*g*c)*(2*p+2*q+3)*x^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 0]$
1347.  $\text{Int}[(g\_.) + (h\_.)*(x\_)]*((a\_.) + (c\_.)*(x\_.)^2)^{(p\_)}*((d\_.) + (e\_.)*(x\_.) + (f\_.)*(x\_.)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[(a*h - g*c*x)*(a + c*x^2)^{(p+1)}*((d + e*x + f*x^2)^q/(2*a*c*(p+1))), x] + \text{Simp}[2/(4*a*c*(p+1)) \text{ Int}[(a + c*x^2)^{(p+1)}*(d + e*x + f*x^2)^{(q-1)}*\text{Simp}[g*c*d*(2*p+3) - a*(h*e*q) + (g*c*e*(2*p+q+3) - a*(2*h*f*q))*x + g*c*f*(2*p+2*q+3)*x^2, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 0]$
1348.  $\text{Int}[(g\_.) + (h\_.)*(x\_)]*((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)^{(p\_)}*((d\_.) + (f\_.)*(x\_.)^2)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[(g*b - 2*a*h - (b*h - 2*g*c)*$

```
x)*(a + b*x + c*x^2)^(p + 1)*((d + f*x^2)^q/((b^2 - 4*a*c)*(p + 1))),
x] - Simp[1/((b^2 - 4*a*c)*(p + 1)) Int[(a + b*x + c*x^2)^(p + 1)*(d
+ f*x^2)^(q - 1)*Simp[(-d)*(b*h - 2*g*c)*(2*p + 3) + (2*f*q*(g*b - 2*
a*h))*x - f*(b*h - 2*g*c)*(2*p + 2*q + 3)*x^2, x], x], x] /; FreeQ[{a,
b, c, d, f, g, h}, x] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] && GtQ[q,
0]
```

```
1349. Int[((g_.) + (h_.)*(x_))*((a_) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_)
+ (e_.)*(x_) + (f_.)*(x_)^2)^(q_), x_Symbol] := Simp[(a + b*x + c*x^2)
^(p + 1)*((d + e*x + f*x^2)^(q + 1)/((b^2 - 4*a*c)*((c*d - a*f)^2 - (
b*d - a*e)*(c*e - b*f))*(p + 1)))*(g*c*(2*a*c*e - b*(c*d + a*f)) + (g*
b - a*h)*(2*c^2*d + b^2*f - c*(b*e + 2*a*f)) + c*(g*(2*c^2*d + b^2*f -
c*(b*e + 2*a*f)) - h*(b*c*d - 2*a*c*e + a*b*f))*x), x] + Simp[1/((b^2
- 4*a*c)*((c*d - a*f)^2 - (b*d - a*e)*(c*e - b*f))*(p + 1)) Int[(a
+ b*x + c*x^2)^(p + 1)*(d + e*x + f*x^2)^q*Simp[(b*h - 2*g*c)*((c*d -
a*f)^2 - (b*d - a*e)*(c*e - b*f))*(p + 1) + (b^2*(g*f) - b*(h*c*d + g*
c*e + a*h*f) + 2*(g*c*(c*d - a*f) - a*((-h)*c*e)))*(a*f*(p + 1) - c*d*
(p + 2)) - e*((g*c)*(2*a*c*e - b*(c*d + a*f)) + (g*b - a*h)*(2*c^2*d +
b^2*f - c*(b*e + 2*a*f)))*(p + q + 2) - (2*f*((g*c)*(2*a*c*e - b*(c*d
+ a*f)) + (g*b - a*h)*(2*c^2*d + b^2*f - c*(b*e + 2*a*f)))*(p + q + 2
) - (b^2*g*f - b*(h*c*d + g*c*e + a*h*f) + 2*(g*c*(c*d - a*f) - a*((-h
)*c*e)))*(b*f*(p + 1) - c*e*(2*p + q + 4)))*x - c*f*(b^2*(g*f) - b*(h*
c*d + g*c*e + a*h*f) + 2*(g*c*(c*d - a*f) + a*h*c*e))*(2*p + 2*q + 5)*
x^2, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, q}, x] && NeQ[b^2 -
4*a*c, 0] && NeQ[e^2 - 4*d*f, 0] && LtQ[p, -1] && NeQ[(c*d - a*f)^2 -
(b*d - a*e)*(c*e - b*f), 0] && !(IntegerQ[p] && ILtQ[q, -1])
```

```
1350. Int[((g_.) + (h_.)*(x_))*((a_) + (c_.)*(x_)^2)^(p_)*((d_) + (e_.)*(x_)
+ (f_.)*(x_)^2)^(q_), x_Symbol] := Simp[(a + c*x^2)^(p + 1)*((d + e*x
+ f*x^2)^(q + 1)/((-4*a*c)*(a*c*e^2 + (c*d - a*f)^2)*(p + 1)))*(g*c*(
2*a*c*e) + ((-a)*h)*(2*c^2*d - c*(2*a*f)) + c*(g*(2*c^2*d - c*(2*a*f))
- h*(-2*a*c*e))*x), x] + Simp[1/((-4*a*c)*(a*c*e^2 + (c*d - a*f)^2)*(
p + 1)) Int[(a + c*x^2)^(p + 1)*(d + e*x + f*x^2)^q*Simp[(-2*g*c)*((
c*d - a*f)^2 - ((-a)*e)*(c*e))*(p + 1) + (2*(g*c*(c*d - a*f) - a*((-h)
*c*e)))*(a*f*(p + 1) - c*d*(p + 2)) - e*((g*c)*(2*a*c*e) + ((-a)*h)*(2
*c^2*d - c*(Plus[2])*a*f)))*(p + q + 2) - (2*f*((g*c)*(2*a*c*e) + ((-
a)*h)*(2*c^2*d + (-c)*(Plus[2])*a*f)))*(p + q + 2) - (2*(g*c*(c*d - a
f) - a((-h)*c*e)))*((-c)*e*(2*p + q + 4)))*x - c*f*(2*(g*c*(c*d - a*
```

- ```
f) - a*((-h)*c*e))*((2*p + 2*q + 5)*x^2, x], x] /; FreeQ[{a, c, d,
e, f, g, h, q}, x] && NeQ[e^2 - 4*d*f, 0] && LtQ[p, -1] && NeQ[a*c*e^
2 + (c*d - a*f)^2, 0] && !( !IntegerQ[p] && ILtQ[q, -1])
```
1351. $\text{Int}[(g_.) + (h_.)(x_.)]((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)^{(p_.)}((d_.) + (f_.)(x_.)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*x + c*x^2)^{(p + 1)}((d + f*x^2)^{(q + 1)}((b^2 - 4*a*c)*(b^2*d*f + (c*d - a*f)^2)^{(p + 1)})) * ((g*c)*((-b)*(c*d + a*f)) + (g*b - a*h)*(2*c^2*d + b^2*f - c*(2*a*f)) + c*(g*(2*c^2*d + b^2*f - c*(2*a*f)) - h*(b*c*d + a*b*f))*x), x] + \text{Simp}[1/((b^2 - 4*a*c)*(b^2*d*f + (c*d - a*f)^2)^{(p + 1)}) \text{Int}[(a + b*x + c*x^2)^{(p + 1)}(d + f*x^2)^q \text{Simp}[(b*h - 2*g*c)*((c*d - a*f)^2 - (b*d)*((-b)*f))*(p + 1) + (b^2*(g*f) - b*(h*c*d + a*h*f) + 2*(g*c*(c*d - a*f)))*(a*f*(p + 1) - c*d*(p + 2)) - (2*f*((g*c)*((-b)*(c*d + a*f)) + (g*b - a*h)*(2*c^2*d + b^2*f - c*(2*a*f)))*(p + q + 2) - (b^2*(g*f) - b*(h*c*d + a*h*f) + 2*(g*c*(c*d - a*f)))*(b*f*(p + 1)))*x - c*f*(b^2*(g*f) - b*(h*c*d + a*h*f) + 2*(g*c*(c*d - a*f)))*(2*p + 2*q + 5)*x^2, x], x] /; FreeQ[{a, b, c, d, f, g, h, q}, x] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] && NeQ[b^2*d*f + (c*d - a*f)^2, 0] && !(!IntegerQ[p] && ILtQ[q, -1])$
1352. $\text{Int}[(g_.) + (h_.)(x_.)]((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)^{(p_.)}((d_.) + (e_.)(x_.) + (f_.)(x_.)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[h*(a + b*x + c*x^2)^p * ((d + e*x + f*x^2)^{(q + 1)} / (2*f*(p + q + 1))), x] - \text{Simp}[1/(2*f*(p + q + 1)) \text{Int}[(a + b*x + c*x^2)^{(p - 1)}(d + e*x + f*x^2)^q \text{Simp}[h*p*(b*d - a*e) + a*(h*e - 2*g*f)*(p + q + 1) + (2*h*p*(c*d - a*f) + b*(h*e - 2*g*f)*(p + q + 1))*x + (h*p*(c*e - b*f) + c*(h*e - 2*g*f)*(p + q + 1))*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, h, q}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[e^2 - 4*d*f, 0] && GtQ[p, 0] && NeQ[p + q + 1, 0]$
1353. $\text{Int}[(g_.) + (h_.)(x_.)]((a_.) + (c_.)(x_.)^2)^{(p_.)}((d_.) + (e_.)(x_.) + (f_.)(x_.)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[h*(a + c*x^2)^p * ((d + e*x + f*x^2)^{(q + 1)} / (2*f*(p + q + 1))), x] + \text{Simp}[1/(2*f*(p + q + 1)) \text{Int}[(a + c*x^2)^{(p - 1)}(d + e*x + f*x^2)^q \text{Simp}[a*h*e*p - a*(h*e - 2*g*f)*(p + q + 1) - 2*h*p*(c*d - a*f)*x - (h*c*e*p + c*(h*e - 2*g*f)*(p + q + 1))*x^2, x], x], x] /; FreeQ[{a, c, d, e, f, g, h, q}, x] && NeQ[e^2 - 4*d*f, 0] && GtQ[p, 0] && NeQ[p + q + 1, 0]$

1354. $\text{Int}[(g_.) + (h_.)(x_.)]((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)^{(p_.)}((d_.) + (f_.)(x_.)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[h*(a + b*x + c*x^2)^p*((d + f*x^2)^{q+1}/(2*f*(p + q + 1))), x] - \text{Simp}[1/(2*f*(p + q + 1)) \text{Int}[(a + b*x + c*x^2)^{p-1}*(d + f*x^2)^q*\text{Simp}[h*p*(b*d) + a*(-2*g*f)*(p + q + 1) + (2*h*p*(c*d - a*f) + b*(-2*g*f)*(p + q + 1))*x + (h*p*((-b)*f) + c*(-2*g*f)*(p + q + 1))*x^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, f, g, h, q\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[p + q + 1, 0]$
1355. $\text{Int}[(g_.) + (h_.)(x_.)]/(((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)*((d_.) + (e_.)(x_.) + (f_.)(x_.)^2)), x_Symbol] \rightarrow \text{With}[\{q = \text{Simplify}[c^2*d^2 - b*c*d*e + a*c*e^2 + b^2*d*f - 2*a*c*d*f - a*b*e*f + a^2*f^2]\}, \text{Simp}[1/q \text{Int}[\text{Simp}[g*c^2*d - g*b*c*e + a*h*c*e + g*b^2*f - a*b*h*f - a*g*c*f + c*(h*c*d - g*c*e + g*b*f - a*h*f)*x, x]/(a + b*x + c*x^2), x], x] + \text{Simp}[1/q \text{Int}[\text{Simp}[(-h)*c*d*e + g*c*e^2 + b*h*d*f - g*c*d*f - g*b*e*f + a*g*f^2 - f*(h*c*d - g*c*e + g*b*f - a*h*f)*x, x]/(d + e*x + f*x^2), x], x] /; \text{NeQ}[q, 0] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0]$
1356. $\text{Int}[(g_.) + (h_.)(x_.)]/(((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)*((d_.) + (f_.)(x_.)^2)), x_Symbol] \rightarrow \text{With}[\{q = \text{Simplify}[c^2*d^2 + b^2*d*f - 2*a*c*d*f + a^2*f^2]\}, \text{Simp}[1/q \text{Int}[\text{Simp}[g*c^2*d + g*b^2*f - a*b*h*f - a*g*c*f + c*(h*c*d + g*b*f - a*h*f)*x, x]/(a + b*x + c*x^2), x], x] + \text{Simp}[1/q \text{Int}[\text{Simp}[b*h*d*f - g*c*d*f + a*g*f^2 - f*(h*c*d + g*b*f - a*h*f)*x, x]/(d + f*x^2), x], x] /; \text{NeQ}[q, 0] /; \text{FreeQ}[\{a, b, c, d, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
1357. $\text{Int}[(g_.) + (h_.)(x_.)]/(((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)*\text{Sqrt}[(d_.) + (e_.)(x_.) + (f_.)(x_.)^2]), x_Symbol] \rightarrow \text{Simp}[-2*g \text{Subst}[\text{Int}[1/(b*d - a*e - b*x^2), x], x, \text{Sqrt}[d + e*x + f*x^2]], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{EqQ}[c*e - b*f, 0] \&\& \text{EqQ}[h*e - 2*g*f, 0]$
1358. $\text{Int}[(g_.) + (h_.)(x_.)]/(((a_.) + (b_.)(x_.) + (c_.)(x_.)^2)*\text{Sqrt}[(d_.) + (e_.)(x_.) + (f_.)(x_.)^2]), x_Symbol] \rightarrow \text{Simp}[-(h*e - 2*g*f)/(2*f) \text{Int}[1/((a + b*x + c*x^2)*\text{Sqrt}[d + e*x + f*x^2]), x], x] + \text{Simp}[h/(2*f) \text{Int}[(e + 2*f*x)/((a + b*x + c*x^2)*\text{Sqrt}[d + e*x + f*x^2]), x],$

- $x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{EqQ}[c*e - b*f, 0] \&\& \text{NeQ}[h*e - 2*g*f, 0]$
1359. $\text{Int}[(x_)/((a_ + (b_)*(x_) + (c_)*(x_)^2)*\text{Sqrt}[(d_) + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] \rightarrow \text{Simp}[-2*e \text{ Subst}[\text{Int}[(1 - d*x^2)/(c*e - b*f - e*(2*c*d - b*e + 2*a*f)*x^2 + d^2*(c*e - b*f)*x^4], x], x, (1 + (e + \text{Sqrt}[e^2 - 4*d*f])*(x/(2*d)))/\text{Sqrt}[d + e*x + f*x^2]], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{EqQ}[b*d - a*e, 0]$
1360. $\text{Int}[(g_ + (h_)*(x_))/((a_ + (b_)*(x_) + (c_)*(x_)^2)*\text{Sqrt}[(d_) + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] \rightarrow \text{Simp}[g \text{ Subst}[\text{Int}[1/(a + (c*d - a*f)*x^2)], x], x, x/\text{Sqrt}[d + e*x + f*x^2]], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{EqQ}[b*d - a*e, 0] \&\& \text{EqQ}[2*h*d - g*e, 0]$
1361. $\text{Int}[(g_ + (h_)*(x_))/((a_ + (b_)*(x_) + (c_)*(x_)^2)*\text{Sqrt}[(d_) + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] \rightarrow \text{Simp}[-(2*h*d - g*e)/e \text{ Int}[1/((a + b*x + c*x^2)*\text{Sqrt}[d + e*x + f*x^2]), x], x] + \text{Simp}[h/e \text{ Int}[(2*d + e*x)/((a + b*x + c*x^2)*\text{Sqrt}[d + e*x + f*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{EqQ}[b*d - a*e, 0] \&\& \text{NeQ}[2*h*d - g*e, 0]$
1362. $\text{Int}[(g_ + (h_)*(x_))/((a_ + (b_)*(x_) + (c_)*(x_)^2)*\text{Sqrt}[(d_ + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] \rightarrow \text{Simp}[-2*g*(g*b - 2*a*h) \text{ Subst}[\text{Int}[1/\text{Simp}[g*(g*b - 2*a*h)*(b^2 - 4*a*c) - (b*d - a*e)*x^2, x], x], x, \text{Simp}[g*b - 2*a*h - (b*h - 2*g*c)*x, x]/\text{Sqrt}[d + e*x + f*x^2]], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{NeQ}[b*d - a*e, 0] \&\& \text{EqQ}[h^2*(b*d - a*e) - 2*g*h*(c*d - a*f) + g^2*(c*e - b*f), 0]$
1363. $\text{Int}[(g_ + (h_)*(x_))/((a_ + (c_)*(x_)^2)*\text{Sqrt}[(d_ + (e_)*(x_) + (f_)*(x_)^2]), x_Symbol] \rightarrow \text{Simp}[-2*a*g*h \text{ Subst}[\text{Int}[1/\text{Simp}[2*a^2*g*h*c + a*e*x^2, x], x], x, \text{Simp}[a*h - g*c*x, x]/\text{Sqrt}[d + e*x + f*x^2]], x] /; \text{FreeQ}\{a, c, d, e, f, g, h\}, x\} \&\& \text{EqQ}[a*h^2*e + 2*g*h*(c*d - a*f) - g^2*c*e, 0]$

1364. $\text{Int}[\frac{(g_{_}) + (h_{_}) \cdot (x_{_})}{((a_{_}) + (b_{_}) \cdot (x_{_}) + (c_{_}) \cdot (x_{_})^2) \cdot \text{Sqrt}[(d_{_}) + (f_{_}) \cdot (x_{_})^2]}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2 \cdot g \cdot (g \cdot b - 2 \cdot a \cdot h) \text{ Subst}[\text{Int}[1/\text{Simp}[g \cdot (g \cdot b - 2 \cdot a \cdot h) \cdot (b^2 - 4 \cdot a \cdot c) - b \cdot d \cdot x^2, x], x], x, \text{Simp}[g \cdot b - 2 \cdot a \cdot h - (b \cdot h - 2 \cdot g \cdot c) \cdot x, x]/\text{Sqrt}[d + f \cdot x^2]], x] /; \text{FreeQ}[\{a, b, c, d, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{EqQ}[b \cdot h^2 \cdot d - 2 \cdot g \cdot h \cdot (c \cdot d - a \cdot f) - g^2 \cdot b \cdot f, 0]$
1365. $\text{Int}[\frac{(g_{_}) + (h_{_}) \cdot (x_{_})}{((a_{_}) + (b_{_}) \cdot (x_{_}) + (c_{_}) \cdot (x_{_})^2) \cdot \text{Sqrt}[(d_{_}) + (e_{_}) \cdot (x_{_}) + (f_{_}) \cdot (x_{_})^2]}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4 \cdot a \cdot c, 2]\}, \text{Simp}[(2 \cdot c \cdot g - h \cdot (b - q))/q \text{ Int}[1/((b - q + 2 \cdot c \cdot x) \cdot \text{Sqrt}[d + e \cdot x + f \cdot x^2]), x], x] - \text{Simp}[(2 \cdot c \cdot g - h \cdot (b + q))/q \text{ Int}[1/((b + q + 2 \cdot c \cdot x) \cdot \text{Sqrt}[d + e \cdot x + f \cdot x^2]), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{NeQ}[e^2 - 4 \cdot d \cdot f, 0] \&\& \text{PosQ}[b^2 - 4 \cdot a \cdot c]$
1366. $\text{Int}[\frac{(g_{_}) + (h_{_}) \cdot (x_{_})}{((a_{_}) + (c_{_}) \cdot (x_{_})^2) \cdot \text{Sqrt}[(d_{_}) + (e_{_}) \cdot (x_{_}) + (f_{_}) \cdot (x_{_})^2]}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[(-a) \cdot c, 2]\}, \text{Simp}[(h/2 + c \cdot (g/(2 \cdot q))) \text{ Int}[1/((-q + c \cdot x) \cdot \text{Sqrt}[d + e \cdot x + f \cdot x^2]), x], x] + \text{Simp}[(h/2 - c \cdot (g/(2 \cdot q))) \text{ Int}[1/((q + c \cdot x) \cdot \text{Sqrt}[d + e \cdot x + f \cdot x^2]), x], x]] /; \text{FreeQ}[\{a, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[e^2 - 4 \cdot d \cdot f, 0] \&\& \text{PosQ}[(-a) \cdot c]$
1367. $\text{Int}[\frac{(g_{_}) + (h_{_}) \cdot (x_{_})}{((a_{_}) + (b_{_}) \cdot (x_{_}) + (c_{_}) \cdot (x_{_})^2) \cdot \text{Sqrt}[(d_{_}) + (f_{_}) \cdot (x_{_})^2]}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4 \cdot a \cdot c, 2]\}, \text{Simp}[(2 \cdot c \cdot g - h \cdot (b - q))/q \text{ Int}[1/((b - q + 2 \cdot c \cdot x) \cdot \text{Sqrt}[d + f \cdot x^2]), x], x] - \text{Simp}[(2 \cdot c \cdot g - h \cdot (b + q))/q \text{ Int}[1/((b + q + 2 \cdot c \cdot x) \cdot \text{Sqrt}[d + f \cdot x^2]), x], x]] /; \text{FreeQ}[\{a, b, c, d, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{PosQ}[b^2 - 4 \cdot a \cdot c]$
1368. $\text{Int}[\frac{(g_{_}) + (h_{_}) \cdot (x_{_})}{((a_{_}) + (b_{_}) \cdot (x_{_}) + (c_{_}) \cdot (x_{_})^2) \cdot \text{Sqrt}[(d_{_}) + (e_{_}) \cdot (x_{_}) + (f_{_}) \cdot (x_{_})^2]}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[(c \cdot d - a \cdot f)^2 - (b \cdot d - a \cdot e) \cdot (c \cdot e - b \cdot f)], 2]\}, \text{Simp}[1/(2 \cdot q) \text{ Int}[\text{Simp}[h \cdot (b \cdot d - a \cdot e) - g \cdot (c \cdot d - a \cdot f - q) - (g \cdot (c \cdot e - b \cdot f) - h \cdot (c \cdot d - a \cdot f + q)) \cdot x, x]/((a + b \cdot x + c \cdot x^2) \cdot \text{Sqrt}[d + e \cdot x + f \cdot x^2]), x], x] - \text{Simp}[1/(2 \cdot q) \text{ Int}[\text{Simp}[h \cdot (b \cdot d - a \cdot e) - g \cdot (c \cdot d - a \cdot f + q) - (g \cdot (c \cdot e - b \cdot f) - h \cdot (c \cdot d - a \cdot f - q)) \cdot x, x]/((a + b \cdot x + c \cdot x^2) \cdot \text{Sqrt}[d + e \cdot x + f \cdot x^2]), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{NeQ}[e^2 - 4 \cdot d \cdot f, 0] \&\& \text{NeQ}[b \cdot d - a \cdot e, 0] \&\& \text{NegQ}[b^2 - 4 \cdot a \cdot c]$

1369. $\text{Int}[\frac{(g_{.}) + (h_{.})(x_{.})}{((a_{.}) + (c_{.})(x_{.})^2)\sqrt{(d_{.}) + (e_{.})(x_{.}) + (f_{.})(x_{.})^2}}], x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[(c*d - a*f)^2 + a*c*e^2, 2]\}, \text{Simp}[1/(2*q) \text{Int}[\text{Simp}[(-a)*h*e - g*(c*d - a*f - q) + (h*(c*d - a*f + q) - g*c*e)*x, x]/((a + c*x^2)*\sqrt{d + e*x + f*x^2}), x], x] - \text{Simp}[1/(2*q) \text{Int}[\text{Simp}[(-a)*h*e - g*(c*d - a*f + q) + (h*(c*d - a*f - q) - g*c*e)*x, x]/((a + c*x^2)*\sqrt{d + e*x + f*x^2}), x], x]] /; \text{FreeQ}[\{a, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[e^2 - 4*d*f, 0] \&\& \text{NegQ}[(-a)*c]$
1370. $\text{Int}[\frac{(g_{.}) + (h_{.})(x_{.})}{((a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2)\sqrt{(d_{.}) + (f_{.})(x_{.})^2}}], x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[(c*d - a*f)^2 + b^2*d*f, 2]\}, \text{Simp}[1/(2*q) \text{Int}[\text{Simp}[h*b*d - g*(c*d - a*f - q) + (h*(c*d - a*f + q) + g*b*f)*x, x]/((a + b*x + c*x^2)*\sqrt{d + f*x^2}), x], x] - \text{Simp}[1/(2*q) \text{Int}[\text{Simp}[h*b*d - g*(c*d - a*f + q) + (h*(c*d - a*f - q) + g*b*f)*x, x]/((a + b*x + c*x^2)*\sqrt{d + f*x^2}), x], x]] /; \text{FreeQ}[\{a, b, c, d, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NegQ}[b^2 - 4*a*c]$
1371. $\text{Int}[\frac{(g_{.}) + (h_{.})(x_{.})}{(\sqrt{(a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2})\sqrt{(d_{.}) + (e_{.})(x_{.}) + (f_{.})(x_{.})^2}}], x_{\text{Symbol}}] \rightarrow \text{With}[\{s = \text{Rt}[b^2 - 4*a*c, 2], t = \text{Rt}[e^2 - 4*d*f, 2]\}, \text{Simp}[\sqrt{b + s + 2*c*x}*\sqrt{2*a + (b + s)*x}*\sqrt{e + t + 2*f*x}*(\sqrt{2*d + (e + t)*x})/(\sqrt{a + b*x + c*x^2}*\sqrt{d + e*x + f*x^2}) \text{Int}[(g + h*x)/(\sqrt{b + s + 2*c*x}*\sqrt{2*a + (b + s)*x}*\sqrt{e + t + 2*f*x}*\sqrt{2*d + (e + t)*x}), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[e^2 - 4*d*f, 0]$
1372. $\text{Int}[\frac{(g_{.}) + (h_{.})(x_{.})}{(\sqrt{(a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2})\sqrt{(d_{.}) + (f_{.})(x_{.})^2}}], x_{\text{Symbol}}] \rightarrow \text{With}[\{s = \text{Rt}[b^2 - 4*a*c, 2], t = \text{Rt}[-4*d*f, 2]\}, \text{Simp}[\sqrt{b + s + 2*c*x}*\sqrt{2*a + (b + s)*x}*\sqrt{t + 2*f*x}*(\sqrt{2*d + t*x})/(\sqrt{a + b*x + c*x^2}*\sqrt{d + f*x^2}) \text{Int}[(g + h*x)/(\sqrt{b + s + 2*c*x}*\sqrt{2*a + (b + s)*x}*\sqrt{t + 2*f*x}*\sqrt{2*d + t*x}), x], x]] /; \text{FreeQ}[\{a, b, c, d, f, g, h\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
1373. $\text{Int}[\frac{(g_{.}) + (h_{.})(x_{.})}{((a_{.}) + (b_{.})(x_{.}) + (c_{.})(x_{.})^2)^{1/3}*((d_{.}) + (e_{.})(x_{.}) + (f_{.})(x_{.})^2))}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = (-9*c*(h^2/(2*c*g - b*h)^2))^{1/3}\}, \text{Simp}[\sqrt{3}*h*q*(\text{ArcTan}[1/\sqrt{3}] - 2^{2/3})$

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*((1 - (3*h*(b + 2*c*x))/(2*c*g - b*h))^(2/3)/(Sqrt[3]*(1 + (3*h*(b +
2*c*x))/(2*c*g - b*h))^(1/3))]/f), x] + (-Simp[3*h*q*(Log[(1 - 3*h*((
b + 2*c*x)/(2*c*g - b*h))^(2/3) + 2^(1/3)*(1 + 3*h*((b + 2*c*x)/(2*c*
g - b*h))^(1/3)]/(2*f)), x] + Simp[h*q*(Log[d + e*x + f*x^2]/(2*f)),
x]]) /; FreeQ[{a, b, c, d, e, f, g, h}, x] && EqQ[c*e - b*f, 0] && EqQ
[c^2*d - f*(b^2 - 3*a*c), 0] && EqQ[c^2*g^2 - b*c*g*h - 2*b^2*h^2 + 9*
a*c*h^2, 0] && GtQ[-9*c*(h^2/(2*c*g - b*h)^2), 0]

1374. Int[((g_.) + (h_.)*(x_))/(((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(1/3)*((
d_.) + (e_.)*(x_) + (f_.)*(x_)^2)), x_Symbol] := With[{q = -c/(b^2 - 4
*a*c)}, Simp[(q*(a + b*x + c*x^2))^(1/3)/(a + b*x + c*x^2)^(1/3) Int
[(g + h*x)/((q*a + b*q*x + c*q*x^2)^(1/3)*(d + e*x + f*x^2)), x], x]]
/; FreeQ[{a, b, c, d, e, f, g, h}, x] && EqQ[c*e - b*f, 0] && EqQ[c^2*
d - f*(b^2 - 3*a*c), 0] && EqQ[c^2*g^2 - b*c*g*h - 2*b^2*h^2 + 9*a*c*h
^2, 0] && !GtQ[4*a - b^2/c, 0]

1375. Int[((g_.) + (h_.)*(x_))*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_
.) + (e_.)*(x_) + (f_.)*(x_)^2)^(q_), x_Symbol] := Unintegrable[(g + h
x)(a + b*x + c*x^2)^p*(d + e*x + f*x^2)^q, x] /; FreeQ[{a, b, c, d,
e, f, g, h, p, q}, x]

1376. Int[((g_.) + (h_.)*(x_))*((a_.) + (c_.)*(x_)^2)^(p_)*((d_.) + (e_.)*(x
) + (f.)*(x_)^2)^(q_), x_Symbol] := Unintegrable[(g + h*x)*(a + c*x^
2)^p*(d + e*x + f*x^2)^q, x] /; FreeQ[{a, c, d, e, f, g, h, p, q}, x]

1377. Int[((g_.) + (h_.)*(u_))^(m_)*((a_.) + (b_.)*(u_) + (c_.)*(u_)^2)^(p_
.)*((d_.) + (e_.)*(u_) + (f_.)*(u_)^2)^(q_.), x_Symbol] := Simp[1/Coef
ficient[u, x, 1] Subst[Int[(g + h*x)^m*(a + b*x + c*x^2)^p*(d + e*x
+ f*x^2)^q, x], x, u], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, p, q},
x] && LinearQ[u, x] && NeQ[u, x]

1378. Int[((g_.) + (h_.)*(u_))^(m_)*((a_.) + (c_.)*(u_)^2)^(p_)*((d_.) + (
e_.)*(u_) + (f_.)*(u_)^2)^(q_.), x_Symbol] := Simp[1/Coefficient[u, x,
1] Subst[Int[(g + h*x)^m*(a + c*x^2)^p*(d + e*x + f*x^2)^q, x], x,
u], x] /; FreeQ[{a, c, d, e, f, g, h, m, p, q}, x] && LinearQ[u, x] &&
NeQ[u, x]

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1379.  $\text{Int}[(a_ + (c_ \cdot x_ )^{n2_ } + (b_ \cdot x_ )^{n_ })^{p_ }, x\_Symbol] \rightarrow \text{Simp}[1/c^p \text{Int}[(b/2 + c \cdot x^n)^{(2p)}, x], x] /; \text{FreeQ}\{a, b, c, n, p\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{NeQ}[p, 1]$
1380.  $\text{Int}[(u_ \cdot ((a_ + (c_ \cdot x_ )^{n2_ } + (b_ \cdot x_ )^{n_ })^{p_ })), x\_Symbol] \rightarrow \text{Simp}[1/c^p \text{Int}[u \cdot (b/2 + c \cdot x^n)^{(2p)}, x], x] /; \text{FreeQ}\{a, b, c, n, p\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{IntegerQ}[p]$
1381.  $\text{Int}[(u_ \cdot ((a_ + (c_ \cdot x_ )^{n2_ } + (b_ \cdot x_ )^{n_ })^{p_ } \cdot ((d_ + (e_ \cdot x_ )^{n_ })^{q_ })), x\_Symbol] \rightarrow \text{Simp}[e^q/c^{(q/2)} \text{Int}[u \cdot (a + b \cdot x^n + c \cdot x^{(2n)})^{(p + q/2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{EqQ}[2 \cdot c \cdot d - b \cdot e, 0] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[q/2]$
1382.  $\text{Int}[(u_ \cdot ((a_ + (c_ \cdot x_ )^{n2_ } + (b_ \cdot x_ )^{n_ })^{p_ } \cdot ((d_ + (e_ \cdot x_ )^{n_ })^{q_ })), x\_Symbol] \rightarrow \text{Simp}[e^{(q-1)}/c^{((q-1)/2)} \text{Int}[u \cdot (d + e \cdot x^n) \cdot (a + b \cdot x^n + c \cdot x^{(2n)})^{(p + (q-1)/2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x] \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{EqQ}[2 \cdot c \cdot d - b \cdot e, 0] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[(q-1)/2]$
1383.  $\text{Int}[(u_ \cdot ((a_ + (c_ \cdot x_ )^{n2_ } + (b_ \cdot x_ )^{n_ })^{p_ } \cdot ((d_ + (e_ \cdot x_ )^{n_ })^{q_ })), x\_Symbol] \rightarrow \text{Simp}[(a + b \cdot x^n + c \cdot x^{(2n)})^p / (d + e \cdot x^n)^{(2p)} \text{Int}[u \cdot (d + e \cdot x^n)^{(q + 2p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{EqQ}[2 \cdot c \cdot d - b \cdot e, 0] \ \&\& \ !\text{IntegerQ}[p]$
1384.  $\text{Int}[(u_ \cdot ((a_ + (c_ \cdot x_ )^{n2_ } + (b_ \cdot x_ )^{n_ })^{p_ })), x\_Symbol] \rightarrow \text{Simp}[(a + b \cdot x^n + c \cdot x^{(2n)})^{\text{FracPart}[p]} / (c^{\text{IntPart}[p]} \cdot (b/2 + c \cdot x^n)^{(2 \cdot \text{FracPart}[p])}) \text{Int}[u \cdot (b/2 + c \cdot x^n)^{(2p)}, x], x] /; \text{FreeQ}\{a, b, c, n, p\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{IntegerQ}[p - 1/2] \ \&\& \ \text{NeQ}[u, x^{(n-1)}] \ \&\& \ \text{NeQ}[u, x^{(2n-1)}] \ \&\& \ !(\text{EqQ}[p, 1/2] \ \&\& \ \text{EqQ}[u, x^{(-2n-1)}])$
1385.  $\text{Int}[(u_ \cdot ((a_ + (c_ \cdot x_ )^{n2_ } + (b_ \cdot x_ )^{n_ })^{p_ })), x\_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]} \cdot (a + b \cdot x^n + c \cdot x^{(2n)})^{\text{FracPart}[p]} / (1 + 2 \cdot c \cdot (x^n/b))^{\text{FracPart}[p]} \text{Int}[u \cdot (1 + 2 \cdot c \cdot (x^n/b))^{\text{FracPart}[p]}], x], x] /; \text{FreeQ}\{a, b, c, n, p\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ !\text{Int}$

- egerQ[2\*p] && NeQ[u, x^(n - 1)] && NeQ[u, x^(2\*n - 1)]
1386. Int[(u\_.)\*((a\_) + (c\_.)\*(x\_)^(n2\_.))^(p\_.)\*((d\_) + (e\_.)\*(x\_)^(n\_.))^(q\_.), x\_Symbol] := Simp[(-e^2/c)^q Int[u\*(d - e\*x^n)^p, x], x] /; FreeQ[{a, c, d, e, n, p, q}, x] && EqQ[n2, 2\*n] && EqQ[c\*d^2 + a\*e^2, 0] && EqQ[p + q, 0] && GtQ[d, 0] && LtQ[c, 0] && GtQ[e^2, 0]
1387. Int[(u\_.)\*((a\_) + (c\_.)\*(x\_)^(n2\_.) + (b\_.)\*(x\_)^(n\_.))^(p\_.)\*((d\_) + (e\_.)\*(x\_)^(n\_.))^(q\_.), x\_Symbol] := Int[u\*(d + e\*x^n)^(p + q)\*(a/d + (c/e)\*x^n)^p, x] /; FreeQ[{a, b, c, d, e, n, p, q}, x] && EqQ[n2, 2\*n] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && (IntegerQ[p] || (GtQ[a, 0] && GtQ[d, 0] && LtQ[c, 0]))
1388. Int[(u\_.)\*((a\_) + (c\_.)\*(x\_)^(n2\_.))^(p\_.)\*((d\_) + (e\_.)\*(x\_)^(n\_.))^(q\_.), x\_Symbol] := Int[u\*(d + e\*x^n)^(p + q)\*(a/d + (c/e)\*x^n)^p, x] /; FreeQ[{a, c, d, e, n, p, q}, x] && EqQ[n2, 2\*n] && EqQ[c\*d^2 + a\*e^2, 0] && (IntegerQ[p] || (GtQ[a, 0] && GtQ[d, 0]))
1389. Int[((d\_) + (e\_.)\*(x\_)^2)/Sqrt[(a\_) + (c\_.)\*(x\_)^4], x\_Symbol] := Simp[d/Sqrt[a] Int[Sqrt[1 + e\*(x^2/d)]/Sqrt[1 - e\*(x^2/d)], x], x] /; FreeQ[{a, c, d, e}, x] && EqQ[c\*d^2 + a\*e^2, 0] && NegQ[c/a] && GtQ[a, 0]
1390. Int[((d\_) + (e\_.)\*(x\_)^2)/Sqrt[(a\_) + (c\_.)\*(x\_)^4], x\_Symbol] := Simp[Sqrt[1 + c\*(x^4/a)]/Sqrt[a + c\*x^4] Int[(d + e\*x^2)/Sqrt[1 + c\*(x^4/a)], x], x] /; FreeQ[{a, c, d, e}, x] && EqQ[c\*d^2 + a\*e^2, 0] && NegQ[c/a] && !GtQ[a, 0] && !(LtQ[a, 0] && GtQ[c, 0])
1391. Int[1/(((d\_) + (e\_.)\*(x\_)^2)\*Sqrt[(a\_) + (c\_.)\*(x\_)^4]), x\_Symbol] := Simp[x/(d\*Sqrt[a + c\*x^4]), x] + (-Simp[(Sqrt[-1 + (e/d)\*x^2]\*Sqrt[1 + (e/d)\*x^2]\*EllipticE[ArcSin[(Sqrt[2]\*Rt[e/d, 2]\*x)/Sqrt[-1 + (e/d)\*x^2]], 1/2])/(Sqrt[2]\*d\*Rt[e/d, 2]\*Sqrt[a + c\*x^4]), x] + Simp[(Sqrt[-1 + (e/d)\*x^2]\*Sqrt[1 + (e/d)\*x^2]\*EllipticF[ArcSin[(Sqrt[2]\*Rt[e/d, 2]\*x)/Sqrt[-1 + (e/d)\*x^2]], 1/2])/(Sqrt[2]\*d\*Rt[e/d, 2]\*Sqrt[a + c\*x^4]), x] /; FreeQ[{a, c, d, e}, x] && EqQ[c\*d^2 + a\*e^2, 0] && LtQ[a, 0] && GtQ[c, 0] && PosQ[e/d]

1392.  $\text{Int}[1/(((d\_)+(e\_)*(x\_)^2)*\text{Sqrt}[(a\_)+(c\_)*(x\_)^4]), x\_Symbol] \rightarrow \text{Simp}[x/(d*\text{Sqrt}[a + c*x^4]), x] - \text{Simp}[(x/(d*\text{Sqrt}[-2*a]*\text{Sqrt}[(-e/d)*x^2]))*\text{EllipticE}[\text{ArcSin}[\text{Sqrt}[-2*a]*(\text{Sqrt}[-1 - (e/d)*x^2]/\text{Sqrt}[a + c*x^4])], 1/2], x] /; \text{FreeQ}\{a, c, d, e\}, x \ \&\& \ \text{EqQ}[c*d^2 + a*e^2, 0] \ \&\& \ \text{LtQ}[a, 0] \ \&\& \ \text{GtQ}[c, 0] \ \&\& \ \text{NegQ}[e/d]$
1393.  $\text{Int}[(x\_)^2/(((d\_)+(e\_)*(x\_)^2)*\text{Sqrt}[(a\_)+(c\_)*(x\_)^4]), x\_Symbol] \rightarrow \text{Simp}[-x/(e*\text{Sqrt}[a + c*x^4]), x] + \text{Simp}[(\text{Sqrt}[-1 + (e/d)*x^2]*\text{Sqrt}[1 + (e/d)*x^2]*\text{EllipticE}[\text{ArcSin}[(\text{Sqrt}[2]*\text{Rt}[e/d, 2]*x)/\text{Sqrt}[-1 + (e/d)*x^2]], 1/2)]/(\text{Sqrt}[2]*e*\text{Rt}[e/d, 2]*\text{Sqrt}[a + c*x^4]), x] /; \text{FreeQ}\{a, c, d, e\}, x \ \&\& \ \text{EqQ}[c*d^2 + a*e^2, 0] \ \&\& \ \text{LtQ}[a, 0] \ \&\& \ \text{GtQ}[c, 0] \ \&\& \ \text{PosQ}[e/d]$
1394.  $\text{Int}[(x\_)^2/(((d\_)+(e\_)*(x\_)^2)*\text{Sqrt}[(a\_)+(c\_)*(x\_)^4]), x\_Symbol] \rightarrow \text{Simp}[-x/(e*\text{Sqrt}[a + c*x^4]), x] + (\text{Simp}[(x/(e*\text{Sqrt}[-2*a]*\text{Sqrt}[(-e/d)*x^2]))*\text{EllipticE}[\text{ArcSin}[(\text{Sqrt}[-2*a]*\text{Sqrt}[-1 - (e/d)*x^2])/\text{Sqrt}[a + c*x^4]], 1/2], x] - \text{Simp}[(x/(e*\text{Sqrt}[-2*a]*\text{Sqrt}[(-e/d)*x^2]))*\text{EllipticF}[\text{ArcSin}[(\text{Sqrt}[-2*a]*\text{Sqrt}[-1 - (e/d)*x^2])/\text{Sqrt}[a + c*x^4]], 1/2], x]) /; \text{FreeQ}\{a, c, d, e\}, x \ \&\& \ \text{EqQ}[c*d^2 + a*e^2, 0] \ \&\& \ \text{LtQ}[a, 0] \ \&\& \ \text{GtQ}[c, 0] \ \&\& \ \text{NegQ}[e/d]$
1395.  $\text{Int}[(u\_)*((a\_)+(c\_)*(x\_)^{n2\_}) + (b\_)*(x\_)^{n\_})^{p\_}*((d\_)+(e\_)*(x\_)^{n\_})^{q\_}, x\_Symbol] \rightarrow \text{Simp}[(a + b*x^n + c*x^{(2*n)})^{\text{FracPart}[p]}/((d + e*x^n)^{\text{FracPart}[p]}*(a/d + c*(x^n/e))^{\text{FracPart}[p]}) \ \text{Int}[u*(d + e*x^n)^{(p + q)}*(a/d + (c/e)*x^n)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, n, p, q\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ !(\text{EqQ}[q, 1] \ \&\& \ \text{EqQ}[n, 2])$
1396.  $\text{Int}[(u\_)*((a\_)+(c\_)*(x\_)^{n2\_})^{p\_}*((d\_)+(e\_)*(x\_)^{n\_})^{q\_}, x\_Symbol] \rightarrow \text{Simp}[(a + c*x^{(2*n)})^{\text{FracPart}[p]}/((d + e*x^n)^{\text{FracPart}[p]}*(a/d + c*(x^n/e))^{\text{FracPart}[p]}) \ \text{Int}[u*(d + e*x^n)^{(p + q)}*(a/d + (c/e)*x^n)^p, x], x] /; \text{FreeQ}\{a, c, d, e, n, p, q\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[c*d^2 + a*e^2, 0] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ !(\text{EqQ}[q, 1] \ \&\& \ \text{EqQ}[n, 2])$
1397.  $\text{Int}[(b\_)*(x\_)^2 + (c\_)*(x\_)^4]^{p\_}, x\_Symbol] \rightarrow \text{Int}[x^{(2*p)}*(b + c*x^2)^p, x] /; \text{FreeQ}\{b, c\}, x \ \&\& \ \text{IntegerQ}[p]$



1398.  $\text{Int}[\text{Sqrt}[(b\_)(x\_)^2 + (c\_)(x\_)^4], x\_Symbol] \rightarrow \text{Simp}[(b*x^2 + c*x^4)^{(3/2)}/(3*c*x^3), x] /; \text{FreeQ}[\{b, c\}, x]$
1399.  $\text{Int}[((b\_)(x\_)^2 + (c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(b*x^2 + c*x^4)^{(p+1)}/(c*(4*p+1)*x^3), x] - \text{Simp}[b*((2*p-1)/(c*(4*p+1))) \text{Int}[(b*x^2 + c*x^4)^p/x^2, x], x] /; \text{FreeQ}[\{b, c, p\}, x] \&\& \text{IGtQ}[p - 1/2, 0]$
1400.  $\text{Int}[1/\text{Sqrt}[(b\_)(x\_)^2 + (c\_)(x\_)^4], x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[1/(1 - b*x^2), x], x, x/\text{Sqrt}[b*x^2 + c*x^4]] /; \text{FreeQ}[\{b, c\}, x]$
1401.  $\text{Int}[((b\_)(x\_)^2 + (c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[-(b*x^2 + c*x^4)^{(p+1)}/(2*b*(p+1)*x), x] + \text{Simp}[(4*p+3)/(2*b*(p+1)) \text{Int}[(b*x^2 + c*x^4)^{(p+1)}/x^2, x], x] /; \text{FreeQ}[\{b, c\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[p, -1]$
1402.  $\text{Int}[((b\_)(x\_)^2 + (c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(b*x^2 + c*x^4)^p/(x^{(2*p)}*(b + c*x^2)^p) \text{Int}[x^{(2*p)}*(b + c*x^2)^p, x], x] /; \text{FreeQ}[\{b, c, p\}, x] \&\& !\text{IntegerQ}[p]$
1403.  $\text{Int}[(a\_)(x\_)^2 + (b\_)(x\_)^2 + (c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*x^2 + c*x^4)^p, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[p, 0]$
1404.  $\text{Int}[(a\_)(x\_)^2 + (b\_)(x\_)^2 + (c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[x*((a + b*x^2 + c*x^4)^p/(4*p+1)), x] + \text{Simp}[2*(p/(4*p+1)) \text{Int}[(2*a + b*x^2)*(a + b*x^2 + c*x^4)^{(p-1)}, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[p, 0] \&\& \text{IntegerQ}[2*p]$
1405.  $\text{Int}[(a\_)(x\_)^2 + (b\_)(x\_)^2 + (c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(-x)*(b^2 - 2*a*c + b*c*x^2)*((a + b*x^2 + c*x^4)^{(p+1)}/(2*a*(p+1)*(b^2 - 4*a*c))), x] + \text{Simp}[1/(2*a*(p+1)*(b^2 - 4*a*c)) \text{Int}[(b^2 - 2*a*c + 2*(p+1)*(b^2 - 4*a*c) + b*c*(4*p+7)*x^2)*(a + b*x^2 + c*x^4)^{(p+1)}, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[p,$

- 1] && IntegerQ[2\*p]
1406.  $\text{Int}[\{(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4\}^{-1}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[c/q \text{ Int}[1/(b/2 - q/2 + c*x^2), x], x] - \text{Simp}[c/q \text{ Int}[1/(b/2 + q/2 + c*x^2), x], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{PosQ}[b^2 - 4*a*c]$
1407.  $\text{Int}[\{(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4\}^{-1}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[a/c, 2]\}, \text{With}[\{r = \text{Rt}[2*q - b/c, 2]\}, \text{Simp}[1/(2*c*q*r) \text{ Int}[(r - x)/(q - r*x + x^2), x], x] + \text{Simp}[1/(2*c*q*r) \text{ Int}[(r + x)/(q + r*x + x^2), x], x]]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NegQ}[b^2 - 4*a*c]$
1408.  $\text{Int}[1/\text{Sqrt}[(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*\text{Sqrt}[-c] \text{ Int}[1/(\text{Sqrt}[b + q + 2*c*x^2]*\text{Sqrt}[-b + q - 2*c*x^2]), x], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[c, 0]$
1409.  $\text{Int}[1/\text{Sqrt}[(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 4]\}, \text{Simp}[(1 + q^2*x^2)*(\text{Sqrt}[(a + b*x^2 + c*x^4)/(a*(1 + q^2*x^2)^2])/(2*q*\text{Sqrt}[a + b*x^2 + c*x^4]))*\text{EllipticF}[2*\text{ArcTan}[q*x], 1/2 - b*(q^2/(4*c))], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[c/a, 0] \&\& \text{LtQ}[b/a, 0]$
1410.  $\text{Int}[1/\text{Sqrt}[(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[\text{Sqrt}[-2*a - (b - q)*x^2]*(\text{Sqrt}[(2*a + (b + q)*x^2)/q]/(2*\text{Sqrt}[-a]*\text{Sqrt}[a + b*x^2 + c*x^4]))*\text{EllipticF}[\text{ArcSin}[x/\text{Sqrt}[(2*a + (b + q)*x^2)/(2*q)]], (b + q)/(2*q)], x] /; \text{IntegerQ}[q]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[a, 0] \&\& \text{GtQ}[c, 0]$
1411.  $\text{Int}[1/\text{Sqrt}[(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[\text{Sqrt}[(2*a + (b - q)*x^2)/(2*a + (b + q)*x^2)]*(\text{Sqrt}[(2*a + (b + q)*x^2)/q]/(2*\text{Sqrt}[a + b*x^2 + c*x^4]*\text{Sqrt}[a/(2*a + (b + q)*x^2)]))*\text{EllipticF}[\text{ArcSin}[x/\text{Sqrt}[(2*a + (b + q)*x^2)/(2*q)]], (b + q)/(2*q)], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[a, 0] \&\& \text{GtQ}[c, 0]$

1412. `Int[1/Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4], x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[(2*a + (b + q)*x^2)*(Sqrt[(2*a + (b - q)*x^2)/(2*a + (b + q)*x^2)]/(2*a*Rt[(b + q)/(2*a), 2]*Sqrt[a + b*x^2 + c*x^4]))*EllipticF[ArcTan[Rt[(b + q)/(2*a), 2]*x], 2*(q/(b + q))], x] /; PosQ[(b + q)/a] && !(PosQ[(b - q)/a] && SimplerSqrtQ[(b - q)/(2*a), (b + q)/(2*a)])] /; FreeQ[{a, b, c}, x] && GtQ[b^2 - 4*a*c, 0]`
1413. `Int[1/Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4], x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[(2*a + (b - q)*x^2)*(Sqrt[(2*a + (b + q)*x^2)/(2*a + (b - q)*x^2)]/(2*a*Rt[(b - q)/(2*a), 2]*Sqrt[a + b*x^2 + c*x^4]))*EllipticF[ArcTan[Rt[(b - q)/(2*a), 2]*x], -2*(q/(b - q))], x] /; PosQ[(b - q)/a] /; FreeQ[{a, b, c}, x] && GtQ[b^2 - 4*a*c, 0]`
1414. `Int[1/Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4], x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[Sqrt[1 + (b + q)*(x^2/(2*a))]*(Sqrt[1 + (b - q)*(x^2/(2*a))])/(Rt[-(b + q)/(2*a), 2]*Sqrt[a + b*x^2 + c*x^4]))*EllipticF[ArcSin[Rt[-(b + q)/(2*a), 2]*x], (b - q)/(b + q)], x] /; NegQ[(b + q)/a] && !(NegQ[(b - q)/a] && SimplerSqrtQ[-(b - q)/(2*a), -(b + q)/(2*a)])] /; FreeQ[{a, b, c}, x] && GtQ[b^2 - 4*a*c, 0]`
1415. `Int[1/Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4], x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[Sqrt[1 + (b - q)*(x^2/(2*a))]*(Sqrt[1 + (b + q)*(x^2/(2*a))])/(Rt[-(b - q)/(2*a), 2]*Sqrt[a + b*x^2 + c*x^4]))*EllipticF[ArcSin[Rt[-(b - q)/(2*a), 2]*x], (b + q)/(b - q)], x] /; NegQ[(b - q)/a] /; FreeQ[{a, b, c}, x] && GtQ[b^2 - 4*a*c, 0]`
1416. `Int[1/Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4], x_Symbol] := With[{q = Rt[c/a, 4]}, Simp[(1 + q^2*x^2)*(Sqrt[(a + b*x^2 + c*x^4)/(a*(1 + q^2*x^2)^2)]/(2*q*Sqrt[a + b*x^2 + c*x^4]))*EllipticF[2*ArcTan[q*x], 1/2 - b*(q^2/(4*c))], x] /; FreeQ[{a, b, c}, x] && NeQ[b^2 - 4*a*c, 0] && PosQ[c/a]`
1417. `Int[1/Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4], x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[Sqrt[1 + 2*c*(x^2/(b - q))]*(Sqrt[1 + 2*c*(x^2/(b + q))]) / Sqrt[a + b*x^2 + c*x^4] Int[1/(Sqrt[1 + 2*c*(x^2/(b - q))]*Sqrt[1 + 2*c*(x^2/(b + q))]), x], x] /; FreeQ[{a, b, c}, x] && NeQ[b^2 - 4*a*c, 0] && NegQ[c/a]`

1418.  $\text{Int}[(a_.) + (b_.)*(x_)^2 + (c_.)*(x_)^4]^{(p_)}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[a^{\text{IntPart}[p]}*((a + b*x^2 + c*x^4)^{\text{FracPart}[p]} / ((1 + 2*c*(x^2/(b + q)))^{\text{FracPart}[p]}*(1 + 2*c*(x^2/(b - q)))^{\text{FracPart}[p]})) \text{Int}[(1 + 2*c*(x^2/(b + q)))^p*(1 + 2*c*(x^2/(b - q)))^p, x], x]] /; \text{FreeQ}[\{a, b, c, p\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
1419.  $\text{Int}[(d_.)*(x_)]^{(m_.)}*((b_.)*(x_)^2 + (c_.)*(x_)^4]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[1/d^{(2*p)} \text{Int}[(d*x)^{(m + 2*p)}*(b + c*x^2)^p, x], x] /; \text{FreeQ}[\{b, c, d, m\}, x] \&\& \text{IntegerQ}[p]$
1420.  $\text{Int}[(d_.)*(x_)]^{(m_.)}*((b_.)*(x_)^2 + (c_.)*(x_)^4]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[d^3*(d*x)^{(m - 3)}*((b*x^2 + c*x^4)^{(p + 1)} / (2*c*(p + 1))), x] /; \text{FreeQ}[\{b, c, d, m, p\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[m + 2*p - 1, 0]$
1421.  $\text{Int}[(d_.)*(x_)]^{(m_.)}*((b_.)*(x_)^2 + (c_.)*(x_)^4]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[d^3*(d*x)^{(m - 3)}*((b*x^2 + c*x^4)^{(p + 1)} / (c*(m + 4*p + 1))), x] - \text{Simp}[b*d^2*(m + 2*p - 1) / (c*(m + 4*p + 1)) \text{Int}[(d*x)^{(m - 2)}*(b*x^2 + c*x^4)^p, x], x] /; \text{FreeQ}[\{b, c, d, m, p\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{IGtQ}[\text{Simplify}[(m + 2*p - 1)/2], 0] \&\& \text{NeQ}[m + 4*p + 1, 0]$
1422.  $\text{Int}[(d_.)*(x_)]^{(m_.)}*((b_.)*(x_)^2 + (c_.)*(x_)^4]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(-d)*(d*x)^{(m - 1)}*((b*x^2 + c*x^4)^{(p + 1)} / (2*b*(p + 1))), x] /; \text{FreeQ}[\{b, c, d, m, p\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[m + 4*p + 3, 0]$
1423.  $\text{Int}[(d_.)*(x_)]^{(m_.)}*((b_.)*(x_)^2 + (c_.)*(x_)^4]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[d*(d*x)^{(m - 1)}*((b*x^2 + c*x^4)^{(p + 1)} / (b*(m + 2*p + 1))), x] - \text{Simp}[c*(m + 4*p + 3) / (b*d^2*(m + 2*p + 1)) \text{Int}[(d*x)^{(m + 2)}*(b*x^2 + c*x^4)^p, x], x] /; \text{FreeQ}[\{b, c, d, m, p\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{ILtQ}[\text{Simplify}[(m + 4*p + 3)/2], 0] \&\& \text{NeQ}[m + 2*p + 1, 0]$
1424.  $\text{Int}[(x_)]^{(m_.)}*((b_.)*(x_)^2 + (c_.)*(x_)^4]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{Subst}[\text{Int}[x^{(m - 1)/2}*(b*x + c*x^2)^p, x], x, x^2], x] /; \text{FreeQ}[\{b, c, m, p\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{IntegerQ}[(m - 1)/2]$

1425. `Int[((d_.)*(x_))^(m_)*((b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] :=  
Simp[(d*x)^(m + 1)*((b*x^2 + c*x^4)^p/(d*(m + 2*p + 1))), x] - Simp[2  
*c*(p/(d^4*(m + 2*p + 1))) Int[(d*x)^(m + 4)*(b*x^2 + c*x^4)^(p - 1)  
, x], x] /; FreeQ[{b, c, d, m, p}, x] && !IntegerQ[p] && GtQ[p, 0] &&  
LtQ[m + 2*p + 1, 0]`
1426. `Int[((d_.)*(x_))^(m_)*((b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] :=  
Simp[(d*x)^(m + 1)*((b*x^2 + c*x^4)^p/(d*(m + 4*p + 1))), x] + Simp[2  
*b*(p/(d^2*(m + 4*p + 1))) Int[(d*x)^(m + 2)*(b*x^2 + c*x^4)^(p - 1)  
, x], x] /; FreeQ[{b, c, d, m, p}, x] && !IntegerQ[p] && GtQ[p, 0] &&  
NeQ[m + 4*p + 1, 0]`
1427. `Int[((d_.)*(x_))^(m_)*((b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] :=  
Simp[d^3*(d*x)^(m - 3)*((b*x^2 + c*x^4)^(p + 1)/(2*c*(p + 1))), x] -  
Simp[d^4*((m + 2*p - 1)/(2*c*(p + 1))) Int[(d*x)^(m - 4)*(b*x^2 + c*  
x^4)^(p + 1), x], x] /; FreeQ[{b, c, d, m, p}, x] && !IntegerQ[p] &&  
LtQ[p, -1] && GtQ[m + 2*p + 1, 2]`
1428. `Int[((d_.)*(x_))^(m_)*((b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] :=  
Simp[(-d)*(d*x)^(m - 1)*((b*x^2 + c*x^4)^(p + 1)/(2*b*(p + 1))), x] +  
Simp[d^2*((m + 4*p + 3)/(2*b*(p + 1))) Int[(d*x)^(m - 2)*(b*x^2 + c  
*x^4)^(p + 1), x], x] /; FreeQ[{b, c, d, m, p}, x] && !IntegerQ[p] &&  
LtQ[p, -1]`
1429. `Int[((d_.)*(x_))^(m_)*((b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] :=  
Simp[d^3*(d*x)^(m - 3)*((b*x^2 + c*x^4)^(p + 1)/(c*(m + 4*p + 1))), x  
] - Simp[b*d^2*((m + 2*p - 1)/(c*(m + 4*p + 1))) Int[(d*x)^(m - 2)*(  
b*x^2 + c*x^4)^p, x], x] /; FreeQ[{b, c, d, m, p}, x] && !IntegerQ[p]  
&& GtQ[m + 2*p - 1, 0] && NeQ[m + 4*p + 1, 0]`
1430. `Int[((d_.)*(x_))^(m_)*((b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] :=  
Simp[d*(d*x)^(m - 1)*((b*x^2 + c*x^4)^(p + 1)/(b*(m + 2*p + 1))), x]  
- Simp[c*((m + 4*p + 3)/(b*d^2*(m + 2*p + 1))) Int[(d*x)^(m + 2)*(b*  
x^2 + c*x^4)^p, x], x] /; FreeQ[{b, c, d, m, p}, x] && !IntegerQ[p] &  
& LtQ[m + 2*p + 1, 0]`

1431.  $\text{Int}[(d \cdot x)^m \cdot (b \cdot x^2 + c \cdot x^4)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(b \cdot x^2 + c \cdot x^4)^p / ((d \cdot x)^{2p} \cdot (b + c \cdot x^2)^p) \text{Int}[(d \cdot x)^{m+2p} \cdot (b + c \cdot x^2)^p, x], x] /;$   $\text{FreeQ}\{b, c, d, m, p, x\}$  &&  $\text{!IntegerQ}[p]$
1432.  $\text{Int}[x \cdot (a + b \cdot x^2 + c \cdot x^4)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/2 \text{Subst}[\text{Int}[(a + b \cdot x + c \cdot x^2)^p, x], x, x^2], x] /;$   $\text{FreeQ}\{a, b, c, p, x\}$
1433.  $\text{Int}[(d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, m, x\}$  &&  $\text{IGtQ}[p, 0]$  &&  $(\text{EqQ}[p, 1] \parallel \text{!IntegerQ}[(m + 1)/2])$
1434.  $\text{Int}[x^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/2 \text{Subst}[\text{Int}[x^{(m-1)/2} \cdot (a + b \cdot x + c \cdot x^2)^p, x], x, x^2], x] /;$   $\text{FreeQ}\{a, b, c, p, x\}$  &&  $\text{IntegerQ}[(m-1)/2]$
1435.  $\text{Int}[(d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p, x_{\text{Symbol}}] \rightarrow \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k/d \text{Subst}[\text{Int}[x^{k(m+1)-1} \cdot (a + b \cdot x^{2k}/d^2 + c \cdot x^{4k}/d^4)^p, x], x, (d \cdot x)^{1/k}], x] /;$   $\text{FreeQ}\{a, b, c, d, p, x\}$  &&  $\text{NeQ}[b^2 - 4 \cdot a \cdot c, 0]$  &&  $\text{FractionQ}[m]$  &&  $\text{IntegerQ}[p]$
1436.  $\text{Int}[(d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot (d \cdot x)^{m-1} \cdot (a + b \cdot x^2 + c \cdot x^4)^p \cdot ((2 \cdot b \cdot p + c \cdot (m + 4 \cdot p - 1) \cdot x^2) / (c \cdot (m + 4 \cdot p + 1) \cdot (m + 4 \cdot p - 1))), x] - \text{Simp}[2 \cdot p \cdot (d^2 / (c \cdot (m + 4 \cdot p + 1) \cdot (m + 4 \cdot p - 1))) \text{Int}[(d \cdot x)^{m-2} \cdot (a + b \cdot x^2 + c \cdot x^4)^{p-1} \cdot \text{Simp}[a \cdot b \cdot (m-1) - (2 \cdot a \cdot c \cdot (m + 4 \cdot p - 1) - b^2 \cdot (m + 2 \cdot p - 1)) \cdot x^2, x], x], x] /;$   $\text{FreeQ}\{a, b, c, d, x\}$  &&  $\text{NeQ}[b^2 - 4 \cdot a \cdot c, 0]$  &&  $\text{GtQ}[p, 0]$  &&  $\text{GtQ}[m, 1]$  &&  $\text{IntegerQ}[2 \cdot p]$  &&  $(\text{IntegerQ}[p] \parallel \text{IntegerQ}[m])$
1437.  $\text{Int}[(d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (a + b \cdot x^2 + c \cdot x^4)^p / (d \cdot (m + 1)), x] - \text{Simp}[2 \cdot (p / (d^2 \cdot (m + 1))) \text{Int}[(d \cdot x)^{m+2} \cdot (b + 2 \cdot c \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4)^{p-1}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, x\}$  &&  $\text{NeQ}[b^2 - 4 \cdot a \cdot c, 0]$  &&  $\text{GtQ}[p, 0]$  &&  $\text{LtQ}[m, -1]$  &&  $\text{IntegerQ}[2 \cdot p]$  &&  $(\text{IntegerQ}[p] \parallel \text{IntegerQ}[m])$

gerQ[m])

1438.  $\text{Int}[\left((d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (a + b \cdot x^2 + c \cdot x^4)^p / (d \cdot (m + 4 \cdot p + 1))], x] + \text{Simp}[2 \cdot (p / (m + 4 \cdot p + 1)) \text{Int}[(d \cdot x)^m \cdot (2 \cdot a + b \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4)^{p-1}], x], x] /;$  FreeQ[{a, b, c, d, m}, x] && NeQ[b^2 - 4\*a\*c, 0] && GtQ[p, 0] && NeQ[m + 4\*p + 1, 0] && IntegerQ[2\*p] && (IntegerQ[p] || IntegerQ[m])
1439.  $\text{Int}[\left((d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot (d \cdot x)^{m-1} \cdot (b + 2 \cdot c \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4)^{p+1} / (2 \cdot (p + 1) \cdot (b^2 - 4 \cdot a \cdot c))], x] - \text{Simp}[d^2 / (2 \cdot (p + 1) \cdot (b^2 - 4 \cdot a \cdot c)) \text{Int}[(d \cdot x)^{m-2} \cdot (b \cdot (m - 1) + 2 \cdot c \cdot (m + 4 \cdot p + 5) \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4)^{p+1}], x], x] /;$  FreeQ[{a, b, c, d}, x] && NeQ[b^2 - 4\*a\*c, 0] && LtQ[p, -1] && GtQ[m, 1] && LeQ[m, 3] && IntegerQ[2\*p] && (IntegerQ[p] || IntegerQ[m])
1440.  $\text{Int}[\left((d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-d^3) \cdot (d \cdot x)^{m-3} \cdot (2 \cdot a + b \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4)^{p+1} / (2 \cdot (p + 1) \cdot (b^2 - 4 \cdot a \cdot c))], x] + \text{Simp}[d^4 / (2 \cdot (p + 1) \cdot (b^2 - 4 \cdot a \cdot c)) \text{Int}[(d \cdot x)^{m-4} \cdot (2 \cdot a \cdot (m - 3) + b \cdot (m + 4 \cdot p + 3) \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4)^{p+1}], x], x] /;$  FreeQ[{a, b, c, d}, x] && NeQ[b^2 - 4\*a\*c, 0] && LtQ[p, -1] && GtQ[m, 3] && IntegerQ[2\*p] && (IntegerQ[p] || IntegerQ[m])
1441.  $\text{Int}[\left((d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-d \cdot x)^{m+1} \cdot (b^2 - 2 \cdot a \cdot c + b \cdot c \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4)^{p+1} / (2 \cdot a \cdot d \cdot (p + 1) \cdot (b^2 - 4 \cdot a \cdot c))], x] + \text{Simp}[1 / (2 \cdot a \cdot (p + 1) \cdot (b^2 - 4 \cdot a \cdot c)) \text{Int}[(d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^{p+1} \cdot \text{Simp}[b^2 \cdot (m + 2 \cdot p + 3) - 2 \cdot a \cdot c \cdot (m + 4 \cdot p + 5) + b \cdot c \cdot (m + 4 \cdot p + 7) \cdot x^2], x], x], x] /;$  FreeQ[{a, b, c, d, m}, x] && NeQ[b^2 - 4\*a\*c, 0] && LtQ[p, -1] && IntegerQ[2\*p] && (IntegerQ[p] || IntegerQ[m])
1442.  $\text{Int}[\left((d \cdot x)^m \cdot (a + b \cdot x^2 + c \cdot x^4)^p\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[d^3 \cdot (d \cdot x)^{m-3} \cdot (a + b \cdot x^2 + c \cdot x^4)^{p+1} / (c \cdot (m + 4 \cdot p + 1))], x] - \text{Simp}[d^4 / (c \cdot (m + 4 \cdot p + 1)) \text{Int}[(d \cdot x)^{m-4} \cdot \text{Simp}[a \cdot (m - 3) + b \cdot (m + 2 \cdot p - 1) \cdot x^2], x] \cdot (a + b \cdot x^2 + c \cdot x^4)^p], x], x] /;$  Free

$Q[\{a, b, c, d, p\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[m, 3] \&\& \text{NeQ}[m + 4*p + 1, 0] \&\& \text{IntegerQ}[2*p] \&\& (\text{IntegerQ}[p] \mid\mid \text{IntegerQ}[m])$

1443.  $\text{Int}[(d \cdot x)^m \cdot (a + (b \cdot x)^2 + (c \cdot x)^4)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (a + b \cdot x^2 + c \cdot x^4)^{p+1} / (a \cdot d \cdot (m+1)), x] - \text{Simp}[1 / (a \cdot d^2 \cdot (m+1)) \text{Int}[(d \cdot x)^{m+2} \cdot (b \cdot (m+2 \cdot p+3) + c \cdot (m+4 \cdot p+5) \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[m, -1] \&\& \text{IntegerQ}[2*p] \&\& (\text{IntegerQ}[p] \mid\mid \text{IntegerQ}[m])$
1444.  $\text{Int}[(d \cdot x)^m / (a + (b \cdot x)^2 + (c \cdot x)^4), x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} / (a \cdot d \cdot (m+1)), x] - \text{Simp}[1 / (a \cdot d^2) \text{Int}[(d \cdot x)^{m+2} \cdot (b + c \cdot x^2) / (a + b \cdot x^2 + c \cdot x^4)], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[m, -1]$
1445.  $\text{Int}[(x)^m / (a + (b \cdot x)^2 + (c \cdot x)^4), x_{\text{Symbol}}] \rightarrow \text{Int}[\text{PolynomialDivide}[x^m, a + b \cdot x^2 + c \cdot x^4, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[m, 5]$
1446.  $\text{Int}[(d \cdot x)^m / (a + (b \cdot x)^2 + (c \cdot x)^4), x_{\text{Symbol}}] \rightarrow \text{Simp}[d^3 \cdot (d \cdot x)^{m-3} / (c \cdot (m-3)), x] - \text{Simp}[d^4 / c \text{Int}[(d \cdot x)^{m-4} \cdot (a + b \cdot x^2) / (a + b \cdot x^2 + c \cdot x^4)], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[m, 3]$
1447.  $\text{Int}[(x)^2 / (a + (b \cdot x)^2 + (c \cdot x)^4), x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[a/c, 2]\}, \text{Simp}[1/2 \text{Int}[(q + x^2) / (a + b \cdot x^2 + c \cdot x^4), x], x] - \text{Simp}[1/2 \text{Int}[(q - x^2) / (a + b \cdot x^2 + c \cdot x^4), x], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{LtQ}[b^2 - 4*a*c, 0] \&\& \text{PosQ}[a*c]$
1448.  $\text{Int}[(x)^m / (a + (b \cdot x)^2 + (c \cdot x)^4), x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[a/c, 2]\}, \text{With}[\{r = \text{Rt}[2*q - b/c, 2]\}, -\text{Simp}[1 / (2*c*r) \text{Int}[x^{m-3} \cdot ((q - r \cdot x) / (q - r \cdot x + x^2)), x], x] + \text{Simp}[1 / (2*c*r) \text{Int}[x^{m-3} \cdot ((q + r \cdot x) / (q + r \cdot x + x^2)), x], x]]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GeQ}[m, 3] \&\& \text{LtQ}[m, 4] \&\& \text{NegQ}[b^2 - 4*a*c]$



1449.  $\text{Int}[(x_)^m/((a_) + (b_)*(x_)^2 + (c_)*(x_)^4), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[a/c, 2]\}, \text{With}[\{r = \text{Rt}[2*q - b/c, 2]\}, \text{Simp}[1/(2*c*r) \text{Int}[x^{m-1}/(q - r*x + x^2), x], x] - \text{Simp}[1/(2*c*r) \text{Int}[x^{m-1}/(q + r*x + x^2), x], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GeQ}[m, 1] \&\& \text{LtQ}[m, 3] \&\& \text{NegQ}[b^2 - 4*a*c]$
1450.  $\text{Int}[(d_)*(x_)^m/((a_) + (b_)*(x_)^2 + (c_)*(x_)^4), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(d^2/2)*(b/q + 1) \text{Int}[(d*x)^{m-2}/(b/2 + q/2 + c*x^2), x], x] - \text{Simp}[(d^2/2)*(b/q - 1) \text{Int}[(d*x)^{m-2}/(b/2 - q/2 + c*x^2), x], x]] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GeQ}[m, 2]$
1451.  $\text{Int}[(d_)*(x_)^m/((a_) + (b_)*(x_)^2 + (c_)*(x_)^4), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[c/q \text{Int}[(d*x)^m/(b/2 - q/2 + c*x^2), x], x] - \text{Simp}[c/q \text{Int}[(d*x)^m/(b/2 + q/2 + c*x^2), x], x]] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
1452.  $\text{Int}[x^2/\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*\text{Sqrt}[-c] \text{Int}[x^2/(\text{Sqrt}[b + q + 2*c*x^2]*\text{Sqrt}[-b + q - 2*c*x^2]), x], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[c, 0]$
1453.  $\text{Int}[x^2/\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[1/q \text{Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] - \text{Simp}[1/q \text{Int}[(1 - q*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[c/a, 0] \&\& \text{LtQ}[b/a, 0]$
1454.  $\text{Int}[x^2/\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[-(b - q)/(2*c) \text{Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[1/(2*c) \text{Int}[(b - q + 2*c*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[a, 0] \&\& \text{GtQ}[c, 0]$
1455.  $\text{Int}[x^2/\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4], x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[x*((b + q + 2*c*x^2)/(2*c*\text{Sqrt}[a + b*x^2 + c*x^4])), x] - \text{Simp}[\text{Rt}[(b + q)/(2*a), 2]*(2*a + (b + q)*x^2)*(\text{Sqrt}[(2*a + (b - q)*x^2)/(2*a + (b + q)*x^2)]/(2*c*\text{Sqrt}[a + b*x^2 + c*x^4]$

- $$\text{]])*EllipticE[ArcTan[Rt[(b + q)/(2*a), 2]*x], 2*(q/(b + q))], x] /; \text{PosQ}[(b + q)/a] \&\& \text{!(PosQ}[(b - q)/a] \&\& \text{SimplerSqrtQ}[(b - q)/(2*a), (b + q)/(2*a)])] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{GtQ}[b^2 - 4*a*c, 0]$$
1456.  $\text{Int}[(x\_)^2/\text{Sqrt}[(a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4], x\_Symbol] \text{:> With} \{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[x*((b - q + 2*c*x^2)/(2*c*\text{Sqrt}[a + b*x^2 + c*x^4])), x] - \text{Simp}[\text{Rt}[(b - q)/(2*a), 2]*(2*a + (b - q)*x^2)*(\text{Sqrt}[(2*a + (b + q)*x^2)/(2*a + (b - q)*x^2)]/(2*c*\text{Sqrt}[a + b*x^2 + c*x^4]))*EllipticE[ArcTan[Rt[(b - q)/(2*a), 2]*x], -2*(q/(b - q))], x] /; \text{PosQ}[(b - q)/a] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{GtQ}[b^2 - 4*a*c, 0]$
1457.  $\text{Int}[(x\_)^2/\text{Sqrt}[(a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4], x\_Symbol] \text{:> With} \{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[-(b + q)/(2*c) \text{Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[1/(2*c) \text{Int}[(b + q + 2*c*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] /; \text{NegQ}[(b + q)/a] \&\& \text{!(NegQ}[(b - q)/a] \&\& \text{SimplerSqrtQ}[-(b - q)/(2*a), -(b + q)/(2*a)])] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{GtQ}[b^2 - 4*a*c, 0]$
1458.  $\text{Int}[(x\_)^2/\text{Sqrt}[(a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4], x\_Symbol] \text{:> With} \{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[-(b - q)/(2*c) \text{Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[1/(2*c) \text{Int}[(b - q + 2*c*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] /; \text{NegQ}[(b - q)/a] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{GtQ}[b^2 - 4*a*c, 0]$
1459.  $\text{Int}[(x\_)^2/\text{Sqrt}[(a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4], x\_Symbol] \text{:> With} \{q = \text{Rt}[c/a, 2]\}, \text{Simp}[1/q \text{Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] - \text{Simp}[1/q \text{Int}[(1 - q*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{PosQ}[c/a]$
1460.  $\text{Int}[(x\_)^2/\text{Sqrt}[(a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4], x\_Symbol] \text{:> With} \{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[\text{Sqrt}[1 + 2*c*(x^2/(b - q))]*(\text{Sqrt}[1 + 2*c*(x^2/(b + q))])/\text{Sqrt}[a + b*x^2 + c*x^4]) \text{Int}[x^2/(\text{Sqrt}[1 + 2*c*(x^2/(b - q))]*\text{Sqrt}[1 + 2*c*(x^2/(b + q))]), x], x] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NegQ}[c/a]$
1461.  $\text{Int}[(d\_)*(x\_))^{(m\_)*((a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4)^{(p\_)}, x\_Symbol] \text{:> Simp}[a^{\text{IntPart}[p]}*((a + b*x^2 + c*x^4)^{\text{FracPart}[p]})/((1 + 2*c*($

- $$x^2/(b + \text{Rt}[b^2 - 4ac, 2]))^{\text{FracPart}[p]}(1 + 2c(x^2/(b - \text{Rt}[b^2 - 4ac, 2]))^{\text{FracPart}[p]}) \quad \text{Int}[(dx)^m(1 + 2c(x^2/(b + \text{Sqrt}[b^2 - 4ac])))^p(1 + 2c(x^2/(b - \text{Sqrt}[b^2 - 4ac])))^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, p\}, x]$$
1462.  $\text{Int}[(u)^{(m)}((a) + (b)(v)^2 + (c)(v)^4)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[u^m/(\text{Coefficient}[v, x, 1]v^m \quad \text{Subst}[\text{Int}[x^m(a + bx^2 + cx^{2*2})^p, x], x, v], x] /; \text{FreeQ}\{a, b, c, m, p\}, x] \&\& \text{LinearPairQ}[u, v, x]$
1463.  $\text{Int}[(d) + (e)(x)^2]/((b)(x)^2 + (c)(x)^4)^{(3/4)}, x\_Symbol] \rightarrow \text{Simp}[-2*(c*d - b*e)*((b*x^2 + c*x^4)^{(1/4)/(b*c*x)}, x] + \text{Simp}[e/c \quad \text{Int}[(b*x^2 + c*x^4)^{(1/4)/x^2}, x], x] /; \text{FreeQ}\{b, c, d, e\}, x]$
1464.  $\text{Int}[(d) + (e)(x)^2]*((b)(x)^2 + (c)(x)^4)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[e*((b*x^2 + c*x^4)^{(p+1)/(c*(4*p+3)*x)}, x] /; \text{FreeQ}\{b, c, d, e, p\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[4*p+3, 0] \&\& \text{EqQ}[b*e*(2*p+1) - c*d*(4*p+3), 0]$
1465.  $\text{Int}[(d) + (e)(x)^2]*((b)(x)^2 + (c)(x)^4)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[e*((b*x^2 + c*x^4)^{(p+1)/(c*(4*p+3)*x)}, x] - \text{Simp}[(b*e*(2*p+1) - c*d*(4*p+3))/(c*(4*p+3)) \quad \text{Int}[(b*x^2 + c*x^4)^p, x], x] /; \text{FreeQ}\{b, c, d, e, p\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[4*p+3, 0] \&\& \text{NeQ}[b*e*(2*p+1) - c*d*(4*p+3), 0]$
1466.  $\text{Int}[(d) + (e)(x)^2]^{(q)}*((b)(x)^2 + (c)(x)^4)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[(b*x^2 + c*x^4)^{\text{FracPart}[p]}/(x^{(2*\text{FracPart}[p])*(b + c*x^2)^{\text{FracPart}[p]}) \quad \text{Int}[x^{(2*p)}*(d + e*x^2)^q*(b + c*x^2)^p, x], x] /; \text{FreeQ}\{b, c, d, e, p, q\}, x] \&\& !\text{IntegerQ}[p]$
1467.  $\text{Int}[(d) + (e)(x)^2]^{(q)}*((a) + (b)(x)^2 + (c)(x)^4)^{(p)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x^2)^q*(a + b*x^2 + c*x^4)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, -2]$

1468. `Int[((d_) + (e_)*(x_)^2)^(q_)*((a_) + (c_)*(x_)^4)^(p_), x_Symbol]`  
`:> Int[ExpandIntegrand[(d + e*x^2)^q*(a + c*x^4)^p, x], x] /; FreeQ[{`  
`a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && IGtQ[p, 0] && IGtQ[q, -2]`
1469. `Int[((d_) + (e_)*(x_)^2)^(q_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p`  
`_), x_Symbol] :> Simp[a^p*x*((d + e*x^2)^(q + 1)/d), x] + Simp[1/d`  
`Int[x^2*(d + e*x^2)^q*(d*PolynomialQuotient[(a + b*x^2 + c*x^4)^p - a^`  
`p, x^2, x] - e*a^p*(2*q + 3)), x], x] /; FreeQ[{a, b, c, d, e}, x] &&`  
`NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && IGtQ[p, 0] &&`  
`ILtQ[q + 1/2, 0] && LtQ[4*p + 2*q + 1, 0]`
1470. `Int[((d_) + (e_)*(x_)^2)^(q_)*((a_) + (c_)*(x_)^4)^(p_), x_Symbol]`  
`:> Simp[a^p*x*((d + e*x^2)^(q + 1)/d), x] + Simp[1/d Int[x^2*(d + e*`  
`x^2)^q*(d*PolynomialQuotient[(a + c*x^4)^p - a^p, x^2, x] - e*a^p*(2*q`  
`+ 3)), x], x] /; FreeQ[{a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && I`  
`GtQ[p, 0] && ILtQ[q + 1/2, 0] && LtQ[4*p + 2*q + 1, 0]`
1471. `Int[((d_) + (e_)*(x_)^2)^(q_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p`  
`_), x_Symbol] :> With[{Qx = PolynomialQuotient[(a + b*x^2 + c*x^4)^p,`  
`d + e*x^2, x], R = Coeff[PolynomialRemainder[(a + b*x^2 + c*x^4)^p, d`  
`+ e*x^2, x], x, 0]}, Simp[(-R)*x*((d + e*x^2)^(q + 1)/(2*d*(q + 1))),`  
`x] + Simp[1/(2*d*(q + 1)) Int[(d + e*x^2)^(q + 1)*ExpandToSum[2*d*(`  
`q + 1)*Qx + R*(2*q + 3), x], x], x] /; FreeQ[{a, b, c, d, e}, x] && N`  
`eQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && IGtQ[p, 0] && L`  
`tQ[q, -1]`
1472. `Int[((d_) + (e_)*(x_)^2)^(q_)*((a_) + (c_)*(x_)^4)^(p_), x_Symbol]`  
`:> With[{Qx = PolynomialQuotient[(a + c*x^4)^p, d + e*x^2, x], R = Coe`  
`ff[PolynomialRemainder[(a + c*x^4)^p, d + e*x^2, x], x, 0]}, Simp[(-R)`  
`*x*((d + e*x^2)^(q + 1)/(2*d*(q + 1))), x] + Simp[1/(2*d*(q + 1)) In`  
`t[(d + e*x^2)^(q + 1)*ExpandToSum[2*d*(q + 1)*Qx + R*(2*q + 3), x], x]`  
`, x] /; FreeQ[{a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && IGtQ[p, 0]`  
`&& LtQ[q, -1]`
1473. `Int[((d_) + (e_)*(x_)^2)^(q_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p`  
`_), x_Symbol] :> Simp[c^p*x^(4*p - 1)*((d + e*x^2)^(q + 1)/(e*(4*p +`  
`2*q + 1))), x] + Simp[1/(e*(4*p + 2*q + 1)) Int[(d + e*x^2)^q*Expand`

- ```

ToSum[e*(4*p + 2*q + 1)*(a + b*x^2 + c*x^4)^p - d*c^p*(4*p - 1)*x^(4*p
- 2) - e*c^p*(4*p + 2*q + 1)*x^(4*p), x], x], x] /; FreeQ[{a, b, c, d
, e, q}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] &&
IGtQ[p, 0] && !LtQ[q, -1]

1474. Int[((d_) + (e_)*(x_)^2)^(q_)*((a_) + (c_)*(x_)^4)^(p_), x_Symbol]
:> Simp[c^p*x^(4*p - 1)*((d + e*x^2)^(q + 1)/(e*(4*p + 2*q + 1))), x]
+ Simp[1/(e*(4*p + 2*q + 1)) Int[(d + e*x^2)^q*ExpandToSum[e*(4*p +
2*q + 1)*(a + c*x^4)^p - d*c^p*(4*p - 1)*x^(4*p - 2) - e*c^p*(4*p + 2*
q + 1)*x^(4*p), x], x], x] /; FreeQ[{a, c, d, e, q}, x] && NeQ[c*d^2 +
a*e^2, 0] && IGtQ[p, 0] && !LtQ[q, -1]

1475. Int[((d_) + (e_)*(x_)^2)/((a_) + (b_)*(x_)^2 + (c_)*(x_)^4), x_Symb
ol] :> With[{q = Rt[2*(d/e) - b/c, 2]}, Simp[e/(2*c) Int[1/Simp[d/e
+ q*x + x^2, x], x], x] + Simp[e/(2*c) Int[1/Simp[d/e - q*x + x^2, x
], x], x]] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && EqQ[
c*d^2 - a*e^2, 0] && (GtQ[2*(d/e) - b/c, 0] || ( !LtQ[2*(d/e) - b/c, 0
] && EqQ[d - e*Rt[a/c, 2], 0]))

1476. Int[((d_) + (e_)*(x_)^2)/((a_) + (c_)*(x_)^4), x_Symbol] :> With[{q
= Rt[2*(d/e), 2]}, Simp[e/(2*c) Int[1/Simp[d/e + q*x + x^2, x], x],
x] + Simp[e/(2*c) Int[1/Simp[d/e - q*x + x^2, x], x], x]] /; FreeQ[{
a, c, d, e}, x] && EqQ[c*d^2 - a*e^2, 0] && PosQ[d*e]

1477. Int[((d_) + (e_)*(x_)^2)/((a_) + (b_)*(x_)^2 + (c_)*(x_)^4), x_Symb
ol] :> With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[(e/2 + (2*c*d - b*e)/(2*q))
Int[1/(b/2 - q/2 + c*x^2), x], x] + Simp[(e/2 - (2*c*d - b*e)/(2*q)
) Int[1/(b/2 + q/2 + c*x^2), x], x]] /; FreeQ[{a, b, c, d, e}, x] &&
NeQ[b^2 - 4*a*c, 0] && EqQ[c*d^2 - a*e^2, 0] && GtQ[b^2 - 4*a*c, 0]

1478. Int[((d_) + (e_)*(x_)^2)/((a_) + (b_)*(x_)^2 + (c_)*(x_)^4), x_Symb
ol] :> With[{q = Rt[-2*(d/e) - b/c, 2]}, Simp[e/(2*c*q) Int[(q - 2*x
)/Simp[d/e + q*x - x^2, x], x], x] + Simp[e/(2*c*q) Int[(q + 2*x)/Si
mp[d/e - q*x - x^2, x], x], x]] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^
2 - 4*a*c, 0] && EqQ[c*d^2 - a*e^2, 0] && !GtQ[b^2 - 4*a*c, 0]

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1479. $\text{Int}[\frac{(d_+) + (e_+)(x_+)^2}{(a_+) + (c_+)(x_+)^4}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[-2*(d/e), 2]\}, \text{Simp}[e/(2*c*q) \text{ Int}[(q - 2*x)/\text{Simp}[d/e + q*x - x^2, x], x], x] + \text{Simp}[e/(2*c*q) \text{ Int}[(q + 2*x)/\text{Simp}[d/e - q*x - x^2, x], x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[d*e]$
1480. $\text{Int}[\frac{(d_+) + (e_+)(x_+)^2}{(a_+) + (b_+)(x_+)^2 + (c_+)(x_+)^4}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(e/2 + (2*c*d - b*e)/(2*q)) \text{ Int}[1/(b/2 - q/2 + c*x^2), x], x] + \text{Simp}[(e/2 - (2*c*d - b*e)/(2*q)) \text{ Int}[1/(b/2 + q/2 + c*x^2), x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[b^2 - 4*a*c]$
1481. $\text{Int}[\frac{(d_+) + (e_+)(x_+)^2}{(a_+) + (c_+)(x_+)^4}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(-a)*c, 2]\}, \text{Simp}[(e/2 + c*(d/(2*q))) \text{ Int}[1/(-q + c*x^2), x], x] + \text{Simp}[(e/2 - c*(d/(2*q))) \text{ Int}[1/(q + c*x^2), x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[(-a)*c]$
1482. $\text{Int}[\frac{(d_+) + (e_+)(x_+)^2}{(a_+) + (c_+)(x_+)^4}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[a*c, 2]\}, \text{Simp}[(d*q + a*e)/(2*a*c) \text{ Int}[(q + c*x^2)/(a + c*x^4), x], x] + \text{Simp}[(d*q - a*e)/(2*a*c) \text{ Int}[(q - c*x^2)/(a + c*x^4), x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[(-a)*c]$
1483. $\text{Int}[\frac{(d_+) + (e_+)(x_+)^2}{(a_+) + (b_+)(x_+)^2 + (c_+)(x_+)^4}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[a/c, 2]\}, \text{With}[\{r = \text{Rt}[2*q - b/c, 2]\}, \text{Simp}[1/(2*c*q*r) \text{ Int}[(d*r - (d - e*q)*x)/(q - r*x + x^2), x], x] + \text{Simp}[1/(2*c*q*r) \text{ Int}[(d*r + (d - e*q)*x)/(q + r*x + x^2), x], x]]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{NegQ}[b^2 - 4*a*c]$
1484. $\text{Int}[\frac{(d_+) + (e_+)(x_+)^2^{(q_+)}}{(a_+) + (b_+)(x_+)^2 + (c_+)(x_+)^4}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x^2)^{q_+}/(a + b*x^2 + c*x^4), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{IntegerQ}[q]$
1485. $\text{Int}[\frac{(d_+) + (e_+)(x_+)^2^{(q_+)}}{(a_+) + (c_+)(x_+)^4}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x^2)^{q_+}/(a + c*x^4), x], x] /; \text{FreeQ}[\{a, c, d,$

- e}, x] && NeQ[c*d^2 + a*e^2, 0] && IntegerQ[q]
1486. Int[((d_) + (e_.)*(x_)^2)^(q_)/((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4), x_Symbol] :> Simp[e^2/(c*d^2 - b*d*e + a*e^2) Int[(d + e*x^2)^q, x], x] + Simp[1/(c*d^2 - b*d*e + a*e^2) Int[(d + e*x^2)^(q + 1)*((c*d - b*e - c*e*x^2)/(a + b*x^2 + c*x^4)), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && !IntegerQ[q] && LtQ[q, -1]
1487. Int[((d_) + (e_.)*(x_)^2)^(q_)/((a_) + (c_.)*(x_)^4), x_Symbol] :> Simp[e^2/(c*d^2 + a*e^2) Int[(d + e*x^2)^q, x], x] + Simp[c/(c*d^2 + a*e^2) Int[(d + e*x^2)^(q + 1)*((d - e*x^2)/(a + c*x^4)), x], x] /; FreeQ[{a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && !IntegerQ[q] && LtQ[q, -1]
1488. Int[((d_) + (e_.)*(x_)^2)^(q_)/((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4), x_Symbol] :> With[{r = Rt[b^2 - 4*a*c, 2]}, Simp[2*(c/r) Int[(d + e*x^2)^q/(b - r + 2*c*x^2), x], x] - Simp[2*(c/r) Int[(d + e*x^2)^q/(b + r + 2*c*x^2), x], x]] /; FreeQ[{a, b, c, d, e, q}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && !IntegerQ[q]
1489. Int[((d_) + (e_.)*(x_)^2)^(q_)/((a_) + (c_.)*(x_)^4), x_Symbol] :> With[{r = Rt[(-a)*c, 2]}, Simp[-c/(2*r) Int[(d + e*x^2)^q/(r - c*x^2), x], x] - Simp[c/(2*r) Int[(d + e*x^2)^q/(r + c*x^2), x], x]] /; FreeQ[{a, c, d, e, q}, x] && NeQ[c*d^2 + a*e^2, 0] && !IntegerQ[q]
1490. Int[((d_) + (e_.)*(x_)^2)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] :> Simp[x*(2*b*e*p + c*d*(4*p + 3) + c*e*(4*p + 1)*x^2)*((a + b*x^2 + c*x^4)^p/(c*(4*p + 1)*(4*p + 3))), x] + Simp[2*(p/(c*(4*p + 1)*(4*p + 3))) Int[Simp[2*a*c*d*(4*p + 3) - a*b*e + (2*a*c*e*(4*p + 1) + b*c*d*(4*p + 3) - b^2*e*(2*p + 1))*x^2, x]*(a + b*x^2 + c*x^4)^(p - 1), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && GtQ[p, 0] && FractionQ[p] && IntegerQ[2*p]
1491. Int[((d_) + (e_.)*(x_)^2)*((a_) + (c_.)*(x_)^4)^(p_), x_Symbol] :> Simp[x*(d*(4*p + 3) + e*(4*p + 1)*x^2)*((a + c*x^4)^p/((4*p + 1)*(4*p + 3

- $$\text{Int}[\text{Simp}[2*(p/((4*p + 1)*(4*p + 3))) \text{Int}[\text{Simp}[2*a*d*(4*p + 3) + (2*a*e*(4*p + 1))*x^2, x]*(a + c*x^4)^{(p - 1)}, x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{GtQ}[p, 0] \&\& \text{FractionQ}[p] \&\& \text{IntegerQ}[2*p]$$
1492. $\text{Int}[\text{Simp}[\text{Simp}[(d + e*x^2)*(a + b*x^2 + c*x^4)^{(p)}, x_Symbol] \text{:>} \text{Simp}[x*(a*b*e - d*(b^2 - 2*a*c) - c*(b*d - 2*a*e))*x^2*(a + b*x^2 + c*x^4)^{(p + 1)}/(2*a*(p + 1)*(b^2 - 4*a*c)), x] + \text{Simp}[1/(2*a*(p + 1)*(b^2 - 4*a*c)) \text{Int}[\text{Simp}[(2*p + 3)*d*b^2 - a*b*e - 2*a*c*d*(4*p + 5) + (4*p + 7)*(d*b - 2*a*e)*c*x^2, x]*(a + b*x^2 + c*x^4)^{(p + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2*p]$
1493. $\text{Int}[\text{Simp}[\text{Simp}[(d + e*x^2)*(a + c*x^4)^{(p)}, x_Symbol] \text{:>} \text{Simp}[(-x)*(d + e*x^2)*(a + c*x^4)^{(p + 1)}/(4*a*(p + 1)), x] + \text{Simp}[1/(4*a*(p + 1)) \text{Int}[\text{Simp}[d*(4*p + 5) + e*(4*p + 7)*x^2, x]*(a + c*x^4)^{(p + 1)}, x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2*p]$
1494. $\text{Int}[\text{Simp}[\text{Simp}[(d + e*x^2)/\text{Sqrt}[(a + b*x^2 + c*x^4)], x_Symbol] \text{:>} \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*\text{Sqrt}[-c] \text{Int}[(d + e*x^2)/(\text{Sqrt}[b + q + 2*c*x^2]*\text{Sqrt}[-b + q - 2*c*x^2]), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{LtQ}[c, 0]$
1495. $\text{Int}[\text{Simp}[\text{Simp}[(d + e*x^2)/\text{Sqrt}[(a + c*x^4)], x_Symbol] \text{:>} \text{With}[\{q = \text{Rt}[(-a)*c, 2]\}, \text{Simp}[\text{Sqrt}[-c] \text{Int}[(d + e*x^2)/(\text{Sqrt}[q + c*x^2]*\text{Sqrt}[q - c*x^2]), x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{GtQ}[a, 0] \&\& \text{LtQ}[c, 0]$
1496. $\text{Int}[\text{Simp}[\text{Simp}[(d + e*x^2)/\text{Sqrt}[(a + b*x^2 + c*x^4)], x_Symbol] \text{:>} \text{With}[\{q = \text{Rt}[c/a, 4]\}, \text{Simp}[(-d)*x*(\text{Sqrt}[a + b*x^2 + c*x^4]/(a*(1 + q^2*x^2))), x] + \text{Simp}[d*(1 + q^2*x^2)*(\text{Sqrt}[(a + b*x^2 + c*x^4)/(a*(1 + q^2*x^2)^2])/ (q*\text{Sqrt}[a + b*x^2 + c*x^4))*\text{EllipticE}[2*\text{ArcTan}[q*x, 1/2 - b*(q^2/(4*c))], x] /; \text{EqQ}[e + d*q^2, 0] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[c/a, 0] \&\& \text{LtQ}[b/a, 0]$

1497. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (b_.)x^2 + (c_.)x^4}}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[\frac{e + dq}{q} \text{Int}[1/\sqrt{a + bx^2 + cx^4}], x], x] - \text{Simp}[e/q \text{Int}[(1 - qx^2)/\sqrt{a + bx^2 + cx^4}], x], x] /; \text{NeQ}[e + dq, 0] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4ac, 0] \&\& \text{GtQ}[c/a, 0] \&\& \text{LtQ}[b/a, 0]$
1498. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (b_.)x^2 + (c_.)x^4}}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[e*x*(b + q + 2cx^2)/(2c*\sqrt{a + bx^2 + cx^4})], x] - \text{Simp}[e*q*\sqrt{(2a + (b - q)x^2)/(2a + (b + q)x^2)}*(\sqrt{(2a + (b + q)x^2}/q)/(2c*\sqrt{a + bx^2 + cx^4})*\sqrt{a/(2a + (b + q)x^2)})]*\text{EllipticE}[\text{ArcSin}[x/\sqrt{(2a + (b + q)x^2)/(2q)}], (b + q)/(2q)], x] /; \text{EqQ}[2cd - e(b - q), 0] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4ac, 0] \&\& \text{LtQ}[a, 0] \&\& \text{GtQ}[c, 0]$
1499. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (c_.)x^4}}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(-a)*c, 2]\}, \text{Simp}[e*x*((q + cx^2)/(c*\sqrt{a + cx^4}))], x] - \text{Simp}[\sqrt{2}*e*q*\sqrt{-a + qx^2}*(\sqrt{(a + qx^2)/q}/(\sqrt{-a}*c*\sqrt{a + cx^4}))]*\text{EllipticE}[\text{ArcSin}[x/\sqrt{(a + qx^2)/(2q)}], 1/2], x] /; \text{EqQ}[cd + eq, 0] \&\& \text{IntegerQ}[q] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{LtQ}[a, 0] \&\& \text{GtQ}[c, 0]$
1500. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (c_.)x^4}}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(-a)*c, 2]\}, \text{Simp}[e*x*((q + cx^2)/(c*\sqrt{a + cx^4}))], x] - \text{Simp}[\sqrt{2}*e*q*\sqrt{(a - qx^2)/(a + qx^2)}*(\sqrt{(a + qx^2)/q}/(c*\sqrt{a + cx^4})*\sqrt{a/(a + qx^2)})]*\text{EllipticE}[\text{ArcSin}[x/\sqrt{(a + qx^2)/(2q)}], 1/2], x] /; \text{EqQ}[cd + eq, 0] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{LtQ}[a, 0] \&\& \text{GtQ}[c, 0]$
1501. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (b_.)x^2 + (c_.)x^4}}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[(2cd - e(b - q))/(2c) \text{Int}[1/\sqrt{a + bx^2 + cx^4}], x], x] + \text{Simp}[e/(2c) \text{Int}[(b - q + 2cx^2)/\sqrt{a + bx^2 + cx^4}], x], x] /; \text{NeQ}[2cd - e(b - q), 0] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4ac, 0] \&\& \text{LtQ}[a, 0] \&\& \text{GtQ}[c, 0]$

1502. $\text{Int}[\frac{(d_+ + (e_-)(x_-)^2)}{\sqrt{(a_+ + (c_-)(x_-)^4)}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[-(a_+)c, 2]\}, \text{Simp}[\frac{c*d + e*q}{c} \text{Int}[1/\sqrt{a + c*x^4}], x], x] - \text{Simp}[e/c \text{Int}[(q - c*x^2)/\sqrt{a + c*x^4}], x], x] /; \text{NeQ}[c*d + e*q, 0] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{LtQ}[a, 0] \&\& \text{GtQ}[c, 0]$
1503. $\text{Int}[\frac{(d_+ + (e_-)(x_-)^2)}{\sqrt{(a_+ + (b_-)(x_-)^2 + (c_-)(x_-)^4)}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[d \text{Int}[1/\sqrt{a + b*x^2 + c*x^4}], x], x] + \text{Simp}[e \text{Int}[x^2/\sqrt{a + b*x^2 + c*x^4}], x], x] /; \text{PosQ}[(b + q)/a] \|\| \text{PosQ}[(b - q)/a] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0]$
1504. $\text{Int}[\frac{(d_+ + (e_-)(x_-)^2)}{\sqrt{(a_+ + (c_-)(x_-)^4)}, x_Symbol] \rightarrow \text{Simp}[d \text{Int}[1/\sqrt{a + c*x^4}], x], x] + \text{Simp}[e \text{Int}[x^2/\sqrt{a + c*x^4}], x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{GtQ}[-(a_+)c, 0]$
1505. $\text{Int}[\frac{(d_+ + (e_-)(x_-)^2)}{\sqrt{(a_+ + (b_-)(x_-)^2 + (c_-)(x_-)^4)}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(-a_+)*e*\text{Rt}[-(b + q)/(2*a_+), 2]*\sqrt{1 + (b + q)*(x^2/(2*a_+))}*(\sqrt{1 + (b - q)*(x^2/(2*a_+))})/(c*\sqrt{a + b*x^2 + c*x^4})*\text{EllipticE}[\text{ArcSin}[\text{Rt}[-(b + q)/(2*a_+), 2]*x], (b - q)/(b + q)], x] /; \text{NegQ}[(b + q)/a] \&\& \text{EqQ}[2*c*d - e*(b + q), 0] \&\& \text{!SimplerSqrtQ}[-(b - q)/(2*a_+), -(b + q)/(2*a_+)] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0]$
1506. $\text{Int}[\frac{(d_+ + (e_-)(x_-)^2)}{\sqrt{(a_+ + (b_-)(x_-)^2 + (c_-)(x_-)^4)}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(2*c*d - e*(b + q))/(2*c) \text{Int}[1/\sqrt{a + b*x^2 + c*x^4}], x], x] + \text{Simp}[e/(2*c) \text{Int}[(b + q + 2*c*x^2)/\sqrt{a + b*x^2 + c*x^4}], x], x] /; \text{NegQ}[(b + q)/a] \&\& \text{NeQ}[2*c*d - e*(b + q), 0] \&\& \text{!SimplerSqrtQ}[-(b - q)/(2*a_+), -(b + q)/(2*a_+)] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0]$
1507. $\text{Int}[\frac{(d_+ + (e_-)(x_-)^2)}{\sqrt{(a_+ + (b_-)(x_-)^2 + (c_-)(x_-)^4)}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(-a_+)*e*\text{Rt}[-(b - q)/(2*a_+), 2]*\sqrt{1 + (b - q)*(x^2/(2*a_+))}*(\sqrt{1 + (b + q)*(x^2/(2*a_+))})/(c*\sqrt{a + b*x^2 + c*x^4})*\text{EllipticE}[\text{ArcSin}[\text{Rt}[-(b - q)/(2*a_+), 2]*x], (b + q)/(b - q)], x] /; \text{NegQ}[(b - q)/a] \&\& \text{EqQ}[2*c*d - e*(b - q), 0] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0]$

1508. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (b_.)x^2 + (c_.)x^4}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[\frac{2cd - e(b - q)}{2c} \text{Int}[1/\sqrt{a + bx^2 + cx^4}, x], x] + \text{Simp}[e/(2c) \text{Int}[(b - q + 2cx^2)/\sqrt{a + bx^2 + cx^4}, x], x] /; \text{NegQ}[(b - q)/a] \&\& \text{NeQ}[2cd - e(b - q), 0]] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4ac, 0]$
1509. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (b_.)x^2 + (c_.)x^4}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 4]\}, \text{Simp}[(-d)xx(\sqrt{a + bx^2 + cx^4}/(a(1 + q^2x^2))), x] + \text{Simp}[d(1 + q^2x^2)(\sqrt{a + bx^2 + cx^4}/(a(1 + q^2x^2)^2))/(q\sqrt{a + bx^2 + cx^4})\text{EllipticE}[2\text{ArcTan}[qx], 1/2 - b(q^2/(4c))], x] /; \text{EqQ}[e + dq^2, 0]] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{PosQ}[c/a]$
1510. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (c_.)x^4}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 4]\}, \text{Simp}[(-d)xx(\sqrt{a + cx^4}/(a(1 + q^2x^2))), x] + \text{Simp}[d(1 + q^2x^2)(\sqrt{a + cx^4}/(a(1 + q^2x^2)^2))/(q\sqrt{a + cx^4})\text{EllipticE}[2\text{ArcTan}[qx], 1/2], x] /; \text{EqQ}[e + dq^2, 0]] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{PosQ}[c/a]$
1511. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (b_.)x^2 + (c_.)x^4}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[(e + dq)/q \text{Int}[1/\sqrt{a + bx^2 + cx^4}, x], x] - \text{Simp}[e/q \text{Int}[(1 - qx^2)/\sqrt{a + bx^2 + cx^4}, x], x] /; \text{NeQ}[e + dq, 0]] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{PosQ}[c/a]$
1512. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (c_.)x^4}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[(e + dq)/q \text{Int}[1/\sqrt{a + cx^4}, x], x] - \text{Simp}[e/q \text{Int}[(1 - qx^2)/\sqrt{a + cx^4}, x], x] /; \text{NeQ}[e + dq, 0]] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{PosQ}[c/a]$
1513. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (c_.)x^4}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[-c/a, 2]\}, \text{Simp}[(dq - e)/q \text{Int}[1/\sqrt{a + cx^4}, x], x] + \text{Simp}[e/q \text{Int}[(1 + qx^2)/\sqrt{a + cx^4}, x], x]] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{NegQ}[c/a] \&\& \text{NeQ}[cd^2 + ae^2, 0]$

1514. $\text{Int}[\frac{(d_.) + (e_.)x^2}{\sqrt{(a_.) + (b_.)x^2 + (c_.)x^4}}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[\frac{\sqrt{1 + 2c(x^2/(b - q))}}{\sqrt{1 + 2c(x^2/(b + q))}}/\sqrt{a + bx^2 + cx^4}) \text{Int}[(d + ex^2)/(\sqrt{1 + 2c(x^2/(b - q))})\sqrt{1 + 2c(x^2/(b + q))}], x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{NegQ}[c/a]$
1515. $\text{Int}[\frac{(d_.) + (e_.)x^2}{(a_.) + (b_.)x^2 + (c_.)x^4}^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + ex^2)(a + bx^2 + cx^4)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{NeQ}[c^2d^2 - b^2de + ae^2, 0]$
1516. $\text{Int}[\frac{(d_.) + (e_.)x^2}{(a_.) + (c_.)x^4}^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + ex^2)(a + cx^4)^p, x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{NeQ}[c^2d^2 + ae^2, 0]$
1517. $\text{Int}[\frac{(d_.) + (e_.)x^2}{(a_.) + (b_.)x^2 + (c_.)x^4}^{(q_.)}, x_Symbol] \rightarrow \text{With}[\{f = \text{Coeff}[\text{PolynomialRemainder}[(d + ex^2)^q, a + bx^2 + cx^4, x], x, 0], g = \text{Coeff}[\text{PolynomialRemainder}[(d + ex^2)^q, a + bx^2 + cx^4, x], x, 2]\}, \text{Simp}[x(a + bx^2 + cx^4)^{(p+1)}((abg - f(b^2 - 2ac) - c(bf - 2ag)x^2)/(2a(p+1)(b^2 - 4ac))), x] + \text{Simp}[1/(2a(p+1)(b^2 - 4ac)) \text{Int}[(a + bx^2 + cx^4)^{(p+1)}\text{ExpandToSum}[2a(p+1)(b^2 - 4ac)\text{PolynomialQuotient}[(d + ex^2)^q, a + bx^2 + cx^4, x] + b^2f(2p+3) - 2acf(4p+5) - abg + c(4p+7)(bf - 2ag)x^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{NeQ}[c^2d^2 - b^2de + ae^2, 0] \&\& \text{IGtQ}[q, 1] \&\& \text{LtQ}[p, -1]$
1518. $\text{Int}[\frac{(d_.) + (e_.)x^2}{(a_.) + (b_.)x^2 + (c_.)x^4}^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[e^q x^{(2q-3)}(a + bx^2 + cx^4)^{(p+1)}/(c(4p+2q+1)), x] + \text{Simp}[1/(c(4p+2q+1)) \text{Int}[(a + bx^2 + cx^4)^p \text{ExpandToSum}[c(4p+2q+1)(d + ex^2)^q - a(2q-3)e^q x^{(2q-4)} - b(2p+2q-1)e^q x^{(2q-2)} - c(4p+2q+1)e^q x^{(2q)}, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{NeQ}[c^2d^2 - b^2de + ae^2, 0] \&\& \text{IGtQ}[q, 1]$
1519. $\text{Int}[\frac{(d_.) + (e_.)x^2}{(a_.) + (c_.)x^4}^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[e^q x^{(2q-3)}(a + cx^4)^{(p+1)}/(c(4p+2q+1)), x] +$

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Simp[1/(c*(4*p + 2*q + 1)) Int[(a + c*x^4)^p*ExpandToSum[c*(4*p + 2
q + 1)(d + e*x^2)^q - a*(2*q - 3)*e^q*x^(2*q - 4) - c*(4*p + 2*q + 1
)*e^q*x^(2*q), x], x], x] /; FreeQ[{a, c, d, e, p}, x] && NeQ[c*d^2 +
a*e^2, 0] && IGtQ[q, 1]

1520. Int[Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]/((d_) + (e_.)*(x_)^2), x_
Symbol] := Simp[-c/e^2 Int[(d - e*x^2)/Sqrt[a + b*x^2 + c*x^4], x],
x] + Int[(2*a + b*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x] /; Fr
eeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e +
a*e^2, 0] && EqQ[c*d^2 - a*e^2, 0]

1521. Int[Sqrt[(a_) + (c_.)*(x_)^4]/((d_) + (e_.)*(x_)^2), x_Symbol] := Simp
[-c/e^2 Int[(d - e*x^2)/Sqrt[a + c*x^4], x], x] + Simp[2*a Int[1/(
(d + e*x^2)*Sqrt[a + c*x^4]), x], x] /; FreeQ[{a, c, d, e}, x] && NeQ[
c*d^2 + a*e^2, 0] && EqQ[c*d^2 - a*e^2, 0]

1522. Int[Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]/((d_) + (e_.)*(x_)^2), x_
Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[1/(2*e) Int[(b - q +
2*c*x^2)/Sqrt[a + b*x^2 + c*x^4], x], x] - Simp[1/(2*e) Int[(b*d - 2
*a*e - d*q + (2*c*d - b*e - e*q)*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*
x^4]), x], x]] /; FreeQ[{a, b, c, d, e}, x] && GtQ[b^2 - 4*a*c, 0] &&
NeQ[c*d^2 - b*d*e + a*e^2, 0] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a]

1523. Int[Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]/((d_) + (e_.)*(x_)^2), x_
Symbol] := With[{q = Rt[c/a, 2]}, Simp[(c*d^2 - b*d*e + a*e^2)/(e*(e -
d*q)) Int[(1 + q*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x]
- Simp[1/(e*(e - d*q)) Int[(c*d - b*e + a*e*q - (c*e - a*d*q^3)*x^2
)/Sqrt[a + b*x^2 + c*x^4], x], x]] /; FreeQ[{a, b, c, d, e}, x] && NeQ
[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && NeQ[c*d^2 - a*e^2
, 0] && PosQ[c/a]

1524. Int[Sqrt[(a_) + (c_.)*(x_)^4]/((d_) + (e_.)*(x_)^2), x_Symbol] := With
[{q = Rt[c/a, 2]}, Simp[(c*d^2 + a*e^2)/(e*(e - d*q)) Int[(1 + q*x^2
)/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] - Simp[1/(e*(e - d*q)) Int[(
c*d + a*e*q - (c*e - a*d*q^3)*x^2)/Sqrt[a + c*x^4], x], x]] /; FreeQ[{
a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && NeQ[c*d^2 - a*e^2, 0] && P
osQ[c/a]

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1525.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]/((d_) + (e_)*(x_)^2), x\_Symbol] \rightarrow \text{Simp}[(c*d^2 - b*d*e + a*e^2)/e^2 \text{ Int}[1/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] - \text{Simp}[1/e^2 \text{ Int}[(c*d - b*e - c*e*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[c/a]$
1526.  $\text{Int}[\text{Sqrt}[(a_) + (c_)*(x_)^4]/((d_) + (e_)*(x_)^2), x\_Symbol] \rightarrow \text{Simp}[(c*d^2 + a*e^2)/e^2 \text{ Int}[1/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] - \text{Simp}[1/e^2 \text{ Int}[(c*d - c*e*x^2)/\text{Sqrt}[a + c*x^4], x], x] /; \text{FreeQ}\{a, c, d, e\}, x\} \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[c/a]$
1527.  $\text{Int}[((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_)/((d_) + (e_)*(x_)^2), x\_Symbol] \rightarrow \text{Simp}[-(e^2)^{-1} \text{ Int}[(c*d - b*e - c*e*x^2)*(a + b*x^2 + c*x^4)^(p - 1), x], x] + \text{Simp}[(c*d^2 - b*d*e + a*e^2)/e^2 \text{ Int}[(a + b*x^2 + c*x^4)^(p - 1)/(d + e*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{IGtQ}[p - 1/2, 0] \&\& \text{EqQ}[c*d^2 - a*e^2, 0]$
1528.  $\text{Int}[((a_) + (c_)*(x_)^4)^(p_)/((d_) + (e_)*(x_)^2), x\_Symbol] \rightarrow \text{Simp}[-(e^2)^{-1} \text{ Int}[(c*d - c*e*x^2)*(a + c*x^4)^(p - 1), x], x] + \text{Simp}[(c*d^2 + a*e^2)/e^2 \text{ Int}[(a + c*x^4)^(p - 1)/(d + e*x^2), x], x] /; \text{FreeQ}\{a, c, d, e\}, x\} \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{IGtQ}[p - 1/2, 0] \&\& \text{EqQ}[c*d^2 - a*e^2, 0]$
1529.  $\text{Int}[((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_)/((d_) + (e_)*(x_)^2), x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(-2*c*d - e*(b + q)) * ((c*d^2 - b*d*e + a*e^2)^(p - 1/2)/(4*c*e^(2*p))) \text{ Int}[(b - q + 2*c*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] + \text{Simp}[1/(4*c*e^(2*p)) \text{ Int}[(1/\text{Sqrt}[a + b*x^2 + c*x^4])*\text{ExpandToSum}[(4*c*e^(2*p)*(a + b*x^2 + c*x^4)^(p + 1/2) + (2*c*d - e*(b + q))*(c*d^2 - b*d*e + a*e^2)^(p - 1/2)*(b - q + 2*c*x^2))/(d + e*x^2), x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{IGtQ}[p - 1/2, 0] \&\& \text{PosQ}[b^2 - 4*a*c] \&\& \text{PosQ}[c/a]$

1530. `Int[((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_)/((d_) + (e_)*(x_)^2), x_Symbol] := Simp[-(c*d^2 - b*d*e + a*e^2)^(p + 1/2)/(e^(2*p)*(c*d^2 - a*e^2)) Int[(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] + Simp[1/(e^(2*p)*(c*d^2 - a*e^2)) Int[(1/Sqrt[a + b*x^2 + c*x^4])*ExpandToSum[(e^(2*p)*(c*d^2 - a*e^2)*(a + b*x^2 + c*x^4)^(p + 1/2) + (c*d^2 - b*d*e + a*e^2)^(p + 1/2)*(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)]/(d + e*x^2), x], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && IGtQ[p - 1/2, 0] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a]`
1531. `Int[((a_) + (c_)*(x_)^4)^(p_)/((d_) + (e_)*(x_)^2), x_Symbol] := Simp[-(c*d^2 + a*e^2)^(p + 1/2)/(e^(2*p)*(c*d^2 - a*e^2)) Int[(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] + Simp[1/(e^(2*p)*(c*d^2 - a*e^2)) Int[(1/Sqrt[a + c*x^4])*ExpandToSum[(e^(2*p)*(c*d^2 - a*e^2)*(a + c*x^4)^(p + 1/2) + (c*d^2 + a*e^2)^(p + 1/2)*(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)]/(d + e*x^2), x], x], x] /; FreeQ[{a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && IGtQ[p - 1/2, 0] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a]`
1532. `Int[((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_)/((d_) + (e_)*(x_)^2), x_Symbol] := Simp[(c*d^2 - b*d*e + a*e^2)^(p + 1/2)/e^(2*p + 1) Int[1/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] + Simp[1/e^(2*p + 1) Int[(1/Sqrt[a + b*x^2 + c*x^4])*ExpandToSum[(e^(2*p + 1)*(a + b*x^2 + c*x^4)^(p + 1/2) - (c*d^2 - b*d*e + a*e^2)^(p + 1/2)]/(d + e*x^2), x], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && IGtQ[p - 1/2, 0] && NeQ[c*d^2 - a*e^2, 0] && NegQ[c/a]`
1533. `Int[((a_) + (c_)*(x_)^4)^(p_)/((d_) + (e_)*(x_)^2), x_Symbol] := Simp[(c*d^2 + a*e^2)^(p + 1/2)/e^(2*p + 1) Int[1/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] + Simp[1/e^(2*p + 1) Int[(1/Sqrt[a + c*x^4])*ExpandToSum[(e^(2*p + 1)*(a + c*x^4)^(p + 1/2) - (c*d^2 + a*e^2)^(p + 1/2)]/(d + e*x^2), x], x], x] /; FreeQ[{a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && IGtQ[p - 1/2, 0] && NeQ[c*d^2 - a*e^2, 0] && NegQ[c/a]`

1534.  $\text{Int}[1/(((d\_)+(e\_)(x\_)^2)*\text{Sqrt}[(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4]), x\_Symbol] \rightarrow \text{Simp}[1/(2*d) \text{ Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[1/(2*d) \text{ Int}[(d - e*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{EqQ}[c*d^2 - a*e^2, 0]$
1535.  $\text{Int}[1/(((d\_)+(e\_)(x\_)^2)*\text{Sqrt}[(a\_)+(c\_)(x\_)^4]), x\_Symbol] \rightarrow \text{Simp}[1/(2*d) \text{ Int}[1/\text{Sqrt}[a + c*x^4], x], x] + \text{Simp}[1/(2*d) \text{ Int}[(d - e*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{EqQ}[c*d^2 - a*e^2, 0]$
1536.  $\text{Int}[1/(((d\_)+(e\_)(x\_)^2)*\text{Sqrt}[(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4]), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*\text{Sqrt}[-c] \text{ Int}[1/((d + e*x^2)*\text{Sqrt}[b + q + 2*c*x^2]*\text{Sqrt}[-b + q - 2*c*x^2]), x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{LtQ}[c, 0]$
1537.  $\text{Int}[1/(((d\_)+(e\_)(x\_)^2)*\text{Sqrt}[(a\_)+(c\_)(x\_)^4]), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(-a)*c, 2]\}, \text{Simp}[\text{Sqrt}[-c] \text{ Int}[1/((d + e*x^2)*\text{Sqrt}[q + c*x^2]*\text{Sqrt}[q - c*x^2]), x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{GtQ}[a, 0] \&\& \text{LtQ}[c, 0]$
1538.  $\text{Int}[1/(((d\_)+(e\_)(x\_)^2)*\text{Sqrt}[(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4]), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*(c/(2*c*d - e*(b - q))) \text{ Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] - \text{Simp}[e/(2*c*d - e*(b - q)) \text{ Int}[(b - q + 2*c*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{GtQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{!LtQ}[c, 0]$
1539.  $\text{Int}[1/(((d\_)+(e\_)(x\_)^2)*\text{Sqrt}[(a\_)+(c\_)(x\_)^4]), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(-a)*c, 2]\}, \text{Simp}[c/(c*d + e*q) \text{ Int}[1/\text{Sqrt}[a + c*x^4], x], x] + \text{Simp}[e/(c*d + e*q) \text{ Int}[(q - c*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{GtQ}[(-a)*c, 0] \&\& \text{!LtQ}[c, 0]$
1540.  $\text{Int}[1/(((d\_)+(e\_)(x\_)^2)*\text{Sqrt}[(a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4]), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[(c*d + a*e*q)/(c*d^2 - a*e^2$



- 2)  $\text{Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] - \text{Simp}[(a*e*(e + d*q))/(c*d^2 - a*e^2) \text{Int}[(1 + q*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[c/a]$
1541.  $\text{Int}[1/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (c_)*(x_)^4]), x\_Symbol] \text{:>} \text{With}\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[(c*d + a*e*q)/(c*d^2 - a*e^2) \text{Int}[1/\text{Sqrt}[a + c*x^4], x], x] - \text{Simp}[(a*e*(e + d*q))/(c*d^2 - a*e^2) \text{Int}[(1 + q*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[c/a]$
1542.  $\text{Int}[1/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (c_)*(x_)^4]), x\_Symbol] \text{:>} \text{With}\{q = \text{Rt}[-c/a, 4]\}, \text{Simp}[(1/(d*\text{Sqrt}[a]*q))*\text{EllipticPi}[-e/(d*q^2), \text{ArcSin}[q*x], -1], x] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{NegQ}[c/a] \&\& \text{GtQ}[a, 0]$
1543.  $\text{Int}[1/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (c_)*(x_)^4]), x\_Symbol] \text{:>} \text{Simp}[\text{Sqrt}[1 + c*(x^4/a)]/\text{Sqrt}[a + c*x^4] \text{Int}[1/((d + e*x^2)*\text{Sqrt}[1 + c*(x^4/a)]), x], x] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{NegQ}[c/a] \&\& !\text{GtQ}[a, 0]$
1544.  $\text{Int}[1/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x\_Symbol] \text{:>} \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[\text{Sqrt}[1 + 2*c*(x^2/(b - q))]*(\text{Sqrt}[1 + 2*c*(x^2/(b + q))]/\text{Sqrt}[a + b*x^2 + c*x^4]) \text{Int}[1/((d + e*x^2)*\text{Sqrt}[1 + 2*c*(x^2/(b - q))]*\text{Sqrt}[1 + 2*c*(x^2/(b + q))]), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{NegQ}[c/a]$
1545.  $\text{Int}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]^{(p_)/((d_) + (e_)*(x_)^2), x\_Symbol] \text{:>} \text{Simp}[1/(c*d^2 - b*d*e + a*e^2) \text{Int}[(c*d - b*e - c*e*x^2)*(a + b*x^2 + c*x^4)^p, x], x] + \text{Simp}[e^2/(c*d^2 - b*d*e + a*e^2) \text{Int}[(a + b*x^2 + c*x^4)^{(p + 1)}/(d + e*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& \text{IntegerQ}[p + 1/2, 0] \&\& (\text{EqQ}[c*d^2 - a*e^2, 0] || \text{NiceSqrtQ}[b^2 - 4*a*c])$
1546.  $\text{Int}[(a_) + (c_)*(x_)^4]^{(p_)/((d_) + (e_)*(x_)^2), x\_Symbol] \text{:>} \text{Simp}[1/(c*d^2 + a*e^2) \text{Int}[(c*d - c*e*x^2)*(a + c*x^4)^p, x], x] + \text{Simp}$

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[e^2/(c*d^2 + a*e^2) Int[(a + c*x^4)^(p + 1)/(d + e*x^2), x], x] /;
FreeQ[{a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && ILtQ[p + 1/2, 0] &&
EqQ[c*d^2 - a*e^2, 0] && (EqQ[c*d^2 - a*e^2, 0] || NiceSqrtQ[(-a)*c])
```
1547. $\text{Int}[(a + (b \cdot x)^2 + (c \cdot x)^4)^{p+1} / ((d + (e \cdot x)^2)), x_Symbol] \rightarrow \text{Simp}[-(c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)^{p+1/2} / (e^{2p} \cdot (\text{Rt}[c/a, 2] \cdot d - e)) \text{Int}[(1 + \text{Rt}[c/a, 2] \cdot x^2) / ((d + e \cdot x^2) \cdot \text{Sqrt}[a + b \cdot x^2 + c \cdot x^4]), x], x] + \text{Simp}[(c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)^{p+1/2} / (\text{Rt}[c/a, 2] \cdot d - e) \text{Int}[(a + b \cdot x^2 + c \cdot x^4)^p \cdot \text{ExpandToSum}[(\text{Rt}[c/a, 2] \cdot d - e) \cdot (c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)^{-p-1/2} + ((1 + \text{Rt}[c/a, 2] \cdot x^2) \cdot (a + b \cdot x^2 + c \cdot x^4))^{-p-1/2}) / e^{2p}) / (d + e \cdot x^2), x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{NeQ}[c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2, 0] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{NeQ}[c \cdot d^2 - a \cdot e^2, 0] \&\& \text{PosQ}[c/a]$
1548. $\text{Int}[(a + (c \cdot x)^4)^{p+1} / ((d + (e \cdot x)^2)), x_Symbol] \rightarrow \text{Simp}[-(c \cdot d^2 + a \cdot e^2)^{p+1/2} / (e^{2p} \cdot (\text{Rt}[c/a, 2] \cdot d - e)) \text{Int}[(1 + \text{Rt}[c/a, 2] \cdot x^2) / ((d + e \cdot x^2) \cdot \text{Sqrt}[a + c \cdot x^4]), x], x] + \text{Simp}[(c \cdot d^2 + a \cdot e^2)^{p+1/2} / (\text{Rt}[c/a, 2] \cdot d - e) \text{Int}[(a + c \cdot x^4)^p \cdot \text{ExpandToSum}[(\text{Rt}[c/a, 2] \cdot d - e) \cdot (c \cdot d^2 + a \cdot e^2)^{-p-1/2} + ((1 + \text{Rt}[c/a, 2] \cdot x^2) \cdot (a + c \cdot x^4))^{-p-1/2}) / e^{2p}) / (d + e \cdot x^2), x], x], x] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{NeQ}[c \cdot d^2 + a \cdot e^2, 0] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{NeQ}[c \cdot d^2 - a \cdot e^2, 0] \&\& \text{PosQ}[c/a]$
1549. $\text{Int}[(a + (b \cdot x)^2 + (c \cdot x)^4)^{p+1} / ((d + (e \cdot x)^2)), x_Symbol] \rightarrow \text{Simp}[(c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)^{p+1/2} / e^{2p+1} \text{Int}[1 / ((d + e \cdot x^2) \cdot \text{Sqrt}[a + b \cdot x^2 + c \cdot x^4]), x], x] + \text{Simp}[(c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)^{p+1/2} \text{Int}[(a + b \cdot x^2 + c \cdot x^4)^p \cdot \text{ExpandToSum}[(c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)^{-p-1/2} - e^{-2p-1} \cdot (a + b \cdot x^2 + c \cdot x^4)^{-p-1/2}) / (d + e \cdot x^2), x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{NeQ}[c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2, 0] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{NeQ}[c \cdot d^2 - a \cdot e^2, 0] \&\& \text{NegQ}[c/a]$
1550. $\text{Int}[(a + (c \cdot x)^4)^{p+1} / ((d + (e \cdot x)^2)), x_Symbol] \rightarrow \text{Simp}[(c \cdot d^2 + a \cdot e^2)^{p+1/2} / e^{2p+1} \text{Int}[1 / ((d + e \cdot x^2) \cdot \text{Sqrt}[a + c \cdot x^4]), x], x] + \text{Simp}[(c \cdot d^2 + a \cdot e^2)^{p+1/2} \text{Int}[(a + c \cdot x^4)^p \cdot \text{ExpandToSum}[(c \cdot d^2 + a \cdot e^2)^{-p-1/2} - e^{-2p-1} \cdot (a + c \cdot x^4)^{-p-1/2}) / (d + e \cdot x^2), x], x], x] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{NeQ}[c \cdot d^2$

- $2 + a e^2, 0]$ && ILtQ[p + 1/2, 0] && NeQ[c*d^2 - a*e^2, 0] && NegQ[c/a
]
1551. Int[((d_) + (e_)*(x_)^2)^(q_)/Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4
], x_Symbol] :> Simp[(-e^2)*x*(d + e*x^2)^(q + 1)*(Sqrt[a + b*x^2 + c*
x^4]/(2*d*(q + 1)*(c*d^2 - b*d*e + a*e^2))), x] + Simp[1/(2*d*(q + 1)*
(c*d^2 - b*d*e + a*e^2)) Int[((d + e*x^2)^(q + 1)/Sqrt[a + b*x^2 + c
*x^4])*Simp[a*e^2*(2*q + 3) + 2*d*(c*d - b*e)*(q + 1) - 2*e*(c*d*(q +
1) - b*e*(q + 2))*x^2 + c*e^2*(2*q + 5)*x^4, x], x], x] /; FreeQ[{a, b
, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0]
&& ILtQ[q, -1]
1552. Int[((d_) + (e_)*(x_)^2)^(q_)/Sqrt[(a_) + (c_)*(x_)^4], x_Symbol] :>
Simp[(-e^2)*x*(d + e*x^2)^(q + 1)*(Sqrt[a + c*x^4]/(2*d*(q + 1)*(c*d^
2 + a*e^2))), x] + Simp[1/(2*d*(q + 1)*(c*d^2 + a*e^2)) Int[((d + e*
x^2)^(q + 1)/Sqrt[a + c*x^4])*Simp[a*e^2*(2*q + 3) + 2*c*d^2*(q + 1) -
2*e*c*d*(q + 1)*x^2 + c*e^2*(2*q + 5)*x^4, x], x], x] /; FreeQ[{a, c,
d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && ILtQ[q, -1]
1553. Int[Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]/((d_) + (e_)*(x_)^2)^2,
x_Symbol] :> With[{q = Rt[e/d, 2]}, Simp[c*(d + e*x^2)*(Sqrt[(e^2*(a +
b*x^2 + c*x^4))/(c*(d + e*x^2)^2)]/(2*d*e^2*q*Sqrt[a + b*x^2 + c*x^4]
)*)*EllipticE[2*ArcTan[q*x], (2*c*d - b*e)/(4*c*d)], x]] /; FreeQ[{a, b
, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0]
&& EqQ[c*d^2 - a*e^2, 0] && PosQ[e/d]
1554. Int[((d_) + (e_)*(x_)^2)^(q_)*Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4
], x_Symbol] :> Simp[(-x)*(d + e*x^2)^(q + 1)*(Sqrt[a + b*x^2 + c*x^4]
/(2*d*(q + 1))), x] + Simp[1/(2*d*(q + 1)) Int[(d + e*x^2)^(q + 1)*(
(a*(2*q + 3) + 2*b*(q + 2)*x^2 + c*(2*q + 5)*x^4)/Sqrt[a + b*x^2 + c*x
^4]), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && Ne
Q[c*d^2 - b*d*e + a*e^2, 0] && ILtQ[q, -1]
1555. Int[((d_) + (e_)*(x_)^2)^(q_)*Sqrt[(a_) + (c_)*(x_)^4], x_Symbol] :>
Simp[(-x)*(d + e*x^2)^(q + 1)*(Sqrt[a + c*x^4]/(2*d*(q + 1))), x] + S
imp[1/(2*d*(q + 1)) Int[(d + e*x^2)^(q + 1)*((a*(2*q + 3) + c*(2*q +
5)*x^4)/Sqrt[a + c*x^4]), x], x] /; FreeQ[{a, c, d, e}, x] && NeQ[c*d

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^2 + a*e^2, 0] && ILtQ[q, -1]

1556. Int[((d_) + (e_.)*(x_)^2)^(q_)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol]
 := Module[{aa, bb, cc}, Int[ExpandIntegrand[1/Sqrt[aa + bb*x^2 + cc*x^4], (d + e*x^2)^q*(aa + bb*x^2 + cc*x^4)^(p + 1/2), x] /
 . {aa -> a, bb -> b, cc -> c}, x]] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && ILtQ[q, 0] && IntegerQ[p + 1/2]

1557. Int[((d_) + (e_.)*(x_)^2)^(q_)*((a_) + (c_.)*(x_)^4)^(p_), x_Symbol] :
 > Module[{aa, cc}, Int[ExpandIntegrand[1/Sqrt[aa + cc*x^4], (d + e*x^2)^q*(aa + cc*x^4)^(p + 1/2), x] /. {aa -> a, cc -> c}, x]] /; FreeQ[{a, c, d, e}, x] && NeQ[c*d^2 + a*e^2, 0] && ILtQ[q, 0] && IntegerQ[p + 1/2]

1558. Int[Sqrt[(d_) + (e_.)*(x_)^2]/Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4], x_Symbol]
 := With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[Sqrt[1 + 2*c*(x^2/(b - q))]*(Sqrt[1 + 2*c*(x^2/(b + q))])/Sqrt[a + b*x^2 + c*x^4]) Int[Sqrt[d + e*x^2]/(Sqrt[1 + 2*c*(x^2/(b - q))]*Sqrt[1 + 2*c*(x^2/(b + q))]), x], x]] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0]

1559. Int[1/(Sqrt[(d_) + (e_.)*(x_)^2]*Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]), x_Symbol]
 := Simp[(1/(2*Sqrt[a]*Sqrt[d]*Rt[-e/d, 2]))*EllipticF[2*ArcSin[Rt[-e/d, 2]*x], b*(d/(4*a*e))], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c*d - b*e, 0] && GtQ[a, 0] && GtQ[d, 0]

1560. Int[1/(Sqrt[(d_) + (e_.)*(x_)^2]*Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]), x_Symbol]
 := Simp[Sqrt[(d + e*x^2)/d]*(Sqrt[(a + b*x^2 + c*x^4)/a]/(Sqrt[d + e*x^2]*Sqrt[a + b*x^2 + c*x^4])) Int[1/(Sqrt[1 + (e/d)*x^2]*Sqrt[1 + (b/a)*x^2 + (c/a)*x^4]), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c*d - b*e, 0] && !(GtQ[a, 0] && GtQ[d, 0])

1561. Int[1/(Sqrt[(d_) + (e_.)*(x_)^2]*Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]), x_Symbol]
 := Simp[x^3*Sqrt[e + d/x^2]*(Sqrt[c + b/x^2 + a/x^4]/(Sqrt[d + e*x^2]*Sqrt[a + b*x^2 + c*x^4])) Int[1/(x^3*Sqrt[e + d/x^2]*Sqrt[c + b/x^2 + a/x^4]), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[

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- $b^2 - 4ac, 0$  &&  $\text{NeQ}[c*d^2 - b*d*e + a*e^2, 0]$
1562.  $\text{Int}[1/(\text{Sqrt}[(d_) + (e_)*(x_)^2]*\text{Sqrt}[(a_) + (c_)*(x_)^4]), x\_Symbol]$   
 $\text{:> Simp}[x^3*\text{Sqrt}[e + d/x^2]*(\text{Sqrt}[c + a/x^4]/(\text{Sqrt}[d + e*x^2]*\text{Sqrt}[a + c*x^4])) \text{Int}[1/(x^3*\text{Sqrt}[e + d/x^2]*\text{Sqrt}[c + a/x^4]), x], x] /;$   $\text{FreeQ}\{a, c, d, e\}, x$  &&  $\text{NeQ}[c*d^2 + a*e^2, 0]$
1563.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]/\text{Sqrt}[(d_) + (e_)*(x_)^2], x\_Symbol]$   $\text{:> Simp}[(\text{Sqrt}[a]/(2*\text{Sqrt}[d]*\text{Rt}[-e/d, 2]))*\text{EllipticE}[2*\text{ArcSin}[\text{Rt}[-e/d, 2]*x], b*(d/(4*a*e))], x] /;$   $\text{FreeQ}\{a, b, c, d, e\}, x$  &&  $\text{EqQ}[c*d - b*e, 0]$  &&  $\text{GtQ}[a, 0]$  &&  $\text{GtQ}[d, 0]$
1564.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]/\text{Sqrt}[(d_) + (e_)*(x_)^2], x\_Symbol]$   $\text{:> Simp}[\text{Sqrt}[a + b*x^2 + c*x^4]*(\text{Sqrt}[(d + e*x^2)/d]/(\text{Sqrt}[d + e*x^2]*\text{Sqrt}[(a + b*x^2 + c*x^4)/a])) \text{Int}[\text{Sqrt}[1 + (b/a)*x^2 + (c/a)*x^4]/\text{Sqrt}[1 + (e/d)*x^2], x], x] /;$   $\text{FreeQ}\{a, b, c, d, e\}, x$  &&  $\text{EqQ}[c*d - b*e, 0]$  &&  $!(\text{GtQ}[a, 0] \&\& \text{GtQ}[d, 0])$
1565.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]/\text{Sqrt}[(d_) + (e_)*(x_)^2], x\_Symbol]$   $\text{:> Simp}[\text{Sqrt}[e + d/x^2]*(\text{Sqrt}[a + b*x^2 + c*x^4]/(x*\text{Sqrt}[d + e*x^2]*\text{Sqrt}[c + b/x^2 + a/x^4])) \text{Int}[(x*\text{Sqrt}[c + b/x^2 + a/x^4])/ \text{Sqrt}[e + d/x^2], x], x] /;$   $\text{FreeQ}\{a, b, c, d, e\}, x$  &&  $\text{NeQ}[b^2 - 4ac, 0]$  &&  $\text{NeQ}[c*d^2 - b*d*e + a*e^2, 0]$
1566.  $\text{Int}[\text{Sqrt}[(a_) + (c_)*(x_)^4]/\text{Sqrt}[(d_) + (e_)*(x_)^2], x\_Symbol]$   $\text{:> Simp}[\text{Sqrt}[e + d/x^2]*(\text{Sqrt}[a + c*x^4]/(x*\text{Sqrt}[d + e*x^2]*\text{Sqrt}[c + a/x^4])) \text{Int}[(x*\text{Sqrt}[c + a/x^4])/ \text{Sqrt}[e + d/x^2], x], x] /;$   $\text{FreeQ}\{a, c, d, e\}, x$  &&  $\text{NeQ}[c*d^2 + a*e^2, 0]$
1567.  $\text{Int}[(d_ + (e_)*(x_)^2)^{(q_)}*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^{(p_)}, x\_Symbol]$   $\text{:> Int}[\text{ExpandIntegrand}[(d + e*x^2)^q*(a + b*x^2 + c*x^4)^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, p, q\}, x$  &&  $\text{NeQ}[b^2 - 4ac, 0]$  &&  $((\text{IntegerQ}[p] \&\& \text{IntegerQ}[q]) \parallel \text{IGtQ}[p, 0] \parallel \text{IGtQ}[q, 0])$
1568.  $\text{Int}[(d_ + (e_)*(x_)^2)^{(q_)}*((a_) + (c_)*(x_)^4)^{(p_)}, x\_Symbol]$   $\text{:> Int}[\text{ExpandIntegrand}[(d + e*x^2)^q*(a + c*x^4)^p, x], x] /;$   $\text{FreeQ}\{a,$

- c, d, e, p, q}, x] && ((IntegerQ[p] && IntegerQ[q]) || IGtQ[p, 0])
1569. Int[((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] :> Int[ExpandIntegrand[(a + c\*x^4)^p, (d/(d^2 - e^2\*x^4) - e\*(x^2/(d^2 - e^2\*x^4)))]^(-q), x], x] /; FreeQ[{a, c, d, e, p}, x] && NeQ[c\*d^2 + a\*e^2, 0] && !IntegerQ[p] && ILtQ[q, 0]
1570. Int[((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (b\_)\*(x\_)^2 + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] := Unintegrable[(d + e\*x^2)^q\*(a + b\*x^2 + c\*x^4)^p, x] /; FreeQ[{a, b, c, d, e, p, q}, x]
1571. Int[((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] := Unintegrable[(d + e\*x^2)^q\*(a + c\*x^4)^p, x] /; FreeQ[{a, c, d, e, p, q}, x]
1572. Int[(x\_)^(m\_)\*((e\_)\*(x\_)^2)^(q\_)\*((a\_) + (b\_)\*(x\_)^2 + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] := Simp[1/(2\*e^((m - 1)/2)) Subst[Int[(e\*x)^(q + (m - 1)/2)\*(a + b\*x + c\*x^2)^p, x], x, x^2], x] /; FreeQ[{a, b, c, e, p, q}, x] && !IntegerQ[q] && IntegerQ[(m - 1)/2]
1573. Int[(x\_)^(m\_)\*((e\_)\*(x\_)^2)^(q\_)\*((a\_) + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] := Simp[1/(2\*e^((m - 1)/2)) Subst[Int[(e\*x)^(q + (m - 1)/2)\*(a + c\*x^2)^p, x], x, x^2], x] /; FreeQ[{a, c, e, p, q}, x] && !IntegerQ[q] && IntegerQ[(m - 1)/2]
1574. Int[((f\_)\*(x\_))^(m\_)\*((e\_)\*(x\_)^2)^(q\_)\*((a\_) + (b\_)\*(x\_)^2 + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] := Simp[e^IntPart[q]\*((e\*x^2)^FracPart[q]/(f^(2\*IntPart[q])\*(f\*x)^(2\*FracPart[q]))) Int[(f\*x)^(m + 2\*q)\*(a + b\*x^2 + c\*x^4)^p, x], x] /; FreeQ[{a, b, c, e, f, m, p, q}, x] && !IntegerQ[q]
1575. Int[((f\_)\*(x\_))^(m\_)\*((e\_)\*(x\_)^2)^(q\_)\*((a\_) + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] := Simp[e^IntPart[q]\*((e\*x^2)^FracPart[q]/(f^(2\*IntPart[q])\*(f\*x)^(2\*FracPart[q]))) Int[(f\*x)^(m + 2\*q)\*(a + c\*x^4)^p, x], x] /; FreeQ[{a, c, e, f, m, p, q}, x] && !IntegerQ[q]

1576.  $\text{Int}[(x_*)*((d_) + (e_)*(x_*)^2)^{(q_)*((a_) + (b_)*(x_*)^2 + (c_)*(x_*)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Subst}[\text{Int}[(d + e*x)^q*(a + b*x + c*x^2)^p, x], x, x^2], x] /; \text{FreeQ}[\{a, b, c, d, e, p, q\}, x]$
1577.  $\text{Int}[(x_*)*((d_) + (e_)*(x_*)^2)^{(q_)*((a_) + (c_)*(x_*)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Subst}[\text{Int}[(d + e*x)^q*(a + c*x^2)^p, x], x, x^2], x] /; \text{FreeQ}[\{a, c, d, e, p, q\}, x]$
1578.  $\text{Int}[(x_*)^{(m_)*((d_) + (e_)*(x_*)^2)^{(q_)*((a_) + (b_)*(x_*)^2 + (c_)*(x_*)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Subst}[\text{Int}[x^{(m-1)/2}*(d + e*x)^q*(a + b*x + c*x^2)^p, x], x, x^2], x] /; \text{FreeQ}[\{a, b, c, d, e, p, q\}, x] \&\& \text{IntegerQ}[(m-1)/2]$
1579.  $\text{Int}[(x_*)^{(m_)*((d_) + (e_)*(x_*)^2)^{(q_)*((a_) + (c_)*(x_*)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Subst}[\text{Int}[x^{(m-1)/2}*(d + e*x)^q*(a + c*x^2)^p, x], x, x^2], x] /; \text{FreeQ}[\{a, c, d, e, p, q\}, x] \&\& \text{IntegerQ}[(m+1)/2]$
1580.  $\text{Int}[(x_*)^{(m_)*((d_) + (e_)*(x_*)^2)^{(q_)*((a_) + (b_)*(x_*)^2 + (c_)*(x_*)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(-d)^{(m/2-1)}*(c*d^2 - b*d*e + a*e^2)^p*x*((d + e*x^2)^{(q+1)/(2*e^{(2*p+m/2)}*(q+1))}, x] + \text{Simp}[1/(2*e^{(2*p+m/2)}*(q+1)) \text{ Int}[(d + e*x^2)^{(q+1)}*\text{ExpandToSum}[\text{Together}[(1/(d + e*x^2))*(2*e^{(2*p+m/2)}*(q+1)*x^m*(a + b*x^2 + c*x^4)^p - (-d)^{(m/2-1)}*(c*d^2 - b*d*e + a*e^2)^p*(d + e*(2*q+3)*x^2)], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[q, -1] \&\& \text{IGtQ}[m/2, 0]$
1581.  $\text{Int}[(x_*)^{(m_)*((d_) + (e_)*(x_*)^2)^{(q_)*((a_) + (c_)*(x_*)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(-d)^{(m/2-1)}*(c*d^2 + a*e^2)^p*x*((d + e*x^2)^{(q+1)/(2*e^{(2*p+m/2)}*(q+1))}, x] + \text{Simp}[1/(2*e^{(2*p+m/2)}*(q+1)) \text{ Int}[(d + e*x^2)^{(q+1)}*\text{ExpandToSum}[\text{Together}[(1/(d + e*x^2))*(2*e^{(2*p+m/2)}*(q+1)*x^m*(a + c*x^4)^p - (-d)^{(m/2-1)}*(c*d^2 + a*e^2)^p*(d + e*(2*q+3)*x^2)], x], x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[q, -1] \&\& \text{IGtQ}[m/2, 0]$
1582.  $\text{Int}[(x_*)^{(m_)*((d_) + (e_)*(x_*)^2)^{(q_)*((a_) + (b_)*(x_*)^2 + (c_)*(x_*)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(-d)^{(m/2-1)}*(c*d^2 - b*d*e + a*e^2)^p*x*((d + e*x^2)^{(q+1)/(2*e^{(2*p+m/2)}*(q+1))}, x] + \text{Simp}[1/(2*e^{(2*p+m/2)}*(q+1)) \text{ Int}[(d + e*x^2)^{(q+1)}*\text{ExpandToSum}[\text{Together}[(1/(d + e*x^2))*(2*e^{(2*p+m/2)}*(q+1)*x^m*(a + b*x^2 + c*x^4)^p - (-d)^{(m/2-1)}*(c*d^2 - b*d*e + a*e^2)^p*(d + e*(2*q+3)*x^2)], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, p, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[q, -1] \&\& \text{IGtQ}[m/2, 0]$

- $$\int \frac{d^{\frac{m}{2}-1} (d+ex^2)^{q+1}}{(2e^{2p+m/2}(q+1))} dx + \text{Simp}\left[\frac{(-d)^{\frac{m}{2}-1}}{(2e^{2p}(q+1))} \int [x^m (d+ex^2)^{q+1} \text{ExpandToSum}[\text{Together}[(1/(d+ex^2)) * (2*(-d)^{-m/2+1} e^{2p}(q+1)(a+bx^2+c*x^4)^p - ((c*d^2 - b*d*e + a*e^2)^p / (e^{(m/2)*x^m}) * (d+e*(2*q+3)*x^2))], x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[q, -1] \&\& \text{ILtQ}[m/2, 0]$$
1583.  $\text{Int}[(x\_)^{(m\_)} * ((d\_)+ (e\_)*(x\_)^2)^{(q\_)} * ((a\_)+ (c\_)*(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}\left[\frac{(-d)^{\frac{m}{2}-1} (c*d^2 + a*e^2)^p * x * (d+ex^2)^{q+1}}{(2e^{2p+m/2}(q+1))}, x\right] + \text{Simp}\left[\frac{(-d)^{\frac{m}{2}-1}}{(2e^{2p}(q+1))} \int [x^m (d+ex^2)^{q+1} \text{ExpandToSum}[\text{Together}[(1/(d+ex^2)) * (2*(-d)^{-m/2+1} e^{2p}(q+1)(a+c*x^4)^p - ((c*d^2 + a*e^2)^p / (e^{(m/2)*x^m}) * (d+e*(2*q+3)*x^2))], x], x], x] /; \text{FreeQ}\{a, c, d, e\}, x\} \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[q, -1] \&\& \text{ILtQ}[m/2, 0]$
1584.  $\text{Int}[(f\_)*(x\_)]^{(m\_)} * ((d\_)+ (e\_)*(x\_)^2)^{(q\_)} * ((a\_)+ (b\_)*(x\_)^2 + (c\_)*(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m * (d+ex^2)^q * (a+bx^2+c*x^4)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, -2]$
1585.  $\text{Int}[(f\_)*(x\_)]^{(m\_)} * ((d\_)+ (e\_)*(x\_)^2)^{(q\_)} * ((a\_)+ (c\_)*(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m * (d+ex^2)^q * (a+c*x^4)^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, m, q\}, x\} \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, -2]$
1586.  $\text{Int}[(f\_)*(x\_)]^{(m\_)} * ((d\_)+ (e\_)*(x\_)^2)^{(q\_)} * ((a\_)+ (b\_)*(x\_)^2 + (c\_)*(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[(a+bx^2+c*x^4)^p, d+ex^2, x], R = \text{Coeff}[\text{PolynomialRemainder}[(a+bx^2+c*x^4)^p, d+ex^2, x], x, 0]\}, \text{Simp}\left[\frac{(-R)*(f*x)^{m+1} * (d+ex^2)^{q+1}}{(2*d*f*(q+1))}, x\right] + \text{Simp}\left[\frac{f}{(2*d*(q+1))} \int [(f*x)^{m-1} * (d+ex^2)^{q+1} \text{ExpandToSum}[2*d*(q+1)*x*Qx + R*(m+2*q+3)*x, x], x], x\right] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{LtQ}[q, -1] \&\& \text{GtQ}[m, 0]$
1587.  $\text{Int}[(f\_)*(x\_)]^{(m\_)} * ((d\_)+ (e\_)*(x\_)^2)^{(q\_)} * ((a\_)+ (c\_)*(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{With}\{Qx = \text{PolynomialQuotient}[(a+c*x^4)^p, d+ex^2, x], R = \text{Coeff}[\text{PolynomialRemainder}[(a+c*x^4)^p, d+ex^2, x]$



- , x, 0]}, Simp[(-R)\*(f\*x)^(m + 1)\*((d + e\*x^2)^(q + 1)/(2\*d\*f\*(q + 1))  
) , x] + Simp[f/(2\*d\*(q + 1)) Int[(f\*x)^(m - 1)\*(d + e\*x^2)^(q + 1)\*E  
xpandToSum[2\*d\*(q + 1)\*x\*Qx + R\*(m + 2\*q + 3)\*x, x], x] /; FreeQ[  
{a, c, d, e, f}, x] && IGtQ[p, 0] && LtQ[q, -1] && GtQ[m, 0]
1588. Int[((f\_.)\*(x\_))^(m\_)\*((d\_) + (e\_.)\*(x\_)^2)^(q\_)\*((a\_) + (b\_.)\*(x\_)^2  
+ (c\_.)\*(x\_)^4)^(p\_), x\_Symbol] := With[{Qx = PolynomialQuotient[(a  
+ b\*x^2 + c\*x^4)^p, f\*x, x], R = PolynomialRemainder[(a + b\*x^2 + c\*x^4)  
^p, f\*x, x]}, Simp[R\*(f\*x)^(m + 1)\*((d + e\*x^2)^(q + 1)/(d\*f\*(m + 1)  
)), x] + Simp[1/(d\*f^2\*(m + 1)) Int[(f\*x)^(m + 2)\*(d + e\*x^2)^q\*Expa  
ndToSum[d\*f\*(m + 1)\*(Qx/x) - e\*R\*(m + 2\*q + 3), x], x], x] /; FreeQ[{  
a, b, c, d, e, f, q}, x] && NeQ[b^2 - 4\*a\*c, 0] && IGtQ[p, 0] && LtQ[m  
, -1]
1589. Int[((f\_.)\*(x\_))^(m\_)\*((d\_) + (e\_.)\*(x\_)^2)^(q\_)\*((a\_) + (c\_.)\*(x\_)^4  
)^(p\_), x\_Symbol] := With[{Qx = PolynomialQuotient[(a + c\*x^4)^p, f\*x  
, x], R = PolynomialRemainder[(a + c\*x^4)^p, f\*x, x]}, Simp[R\*(f\*x)^(m  
+ 1)\*((d + e\*x^2)^(q + 1)/(d\*f\*(m + 1))), x] + Simp[1/(d\*f^2\*(m + 1))  
Int[(f\*x)^(m + 2)\*(d + e\*x^2)^q\*ExpandToSum[d\*f\*(m + 1)\*(Qx/x) - e\*  
R\*(m + 2\*q + 3), x], x], x] /; FreeQ[{a, c, d, e, f, q}, x] && IGtQ[p  
, 0] && LtQ[m, -1]
1590. Int[((f\_.)\*(x\_))^(m\_)\*((d\_) + (e\_.)\*(x\_)^2)^(q\_)\*((a\_) + (b\_.)\*(x\_)^2  
+ (c\_.)\*(x\_)^4)^(p\_), x\_Symbol] := Simp[c^p\*(f\*x)^(m + 4\*p - 1)\*((d  
+ e\*x^2)^(q + 1)/(e\*f^(4\*p - 1)\*(m + 4\*p + 2\*q + 1))), x] + Simp[1/(e  
\*(m + 4\*p + 2\*q + 1)) Int[(f\*x)^m\*(d + e\*x^2)^q\*ExpandToSum[e\*(m + 4  
\*p + 2\*q + 1)\*((a + b\*x^2 + c\*x^4)^p - c^p\*x^(4\*p)) - d\*c^p\*(m + 4\*p -  
1)\*x^(4\*p - 2), x], x], x] /; FreeQ[{a, b, c, d, e, f, m, q}, x] && N  
eQ[b^2 - 4\*a\*c, 0] && IGtQ[p, 0] && !IntegerQ[q] && NeQ[m + 4\*p + 2\*q  
+ 1, 0]
1591. Int[((f\_.)\*(x\_))^(m\_)\*((d\_) + (e\_.)\*(x\_)^2)^(q\_)\*((a\_) + (c\_.)\*(x\_)^4  
)^(p\_), x\_Symbol] := Simp[c^p\*(f\*x)^(m + 4\*p - 1)\*((d + e\*x^2)^(q +  
1)/(e\*f^(4\*p - 1)\*(m + 4\*p + 2\*q + 1))), x] + Simp[1/(e\*(m + 4\*p + 2\*q  
+ 1)) Int[(f\*x)^m\*(d + e\*x^2)^q\*ExpandToSum[e\*(m + 4\*p + 2\*q + 1)\*  
(a + c\*x^4)^p - c^p\*x^(4\*p)) - d\*c^p\*(m + 4\*p - 1)\*x^(4\*p - 2), x], x]  
, x] /; FreeQ[{a, c, d, e, f, m, q}, x] && IGtQ[p, 0] && !IntegerQ[q]

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&& NeQ[m + 4*p + 2*q + 1, 0]

1592. Int[((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(q_.)*((a_) + (b_.)*(x_)^2
+ (c_.)*(x_)^4)^(p_), x_Symbol] := With[{k = Denominator[m]}, Simp[k/f
Subst[Int[x^(k*(m + 1) - 1)*(d + e*(x^(2*k)/f^2))^q*(a + b*(x^(2*k)
)/f^k) + c*(x^(4*k)/f^4)]^p, x], x, (f*x)^(1/k)], x] /; FreeQ[{a, b,
c, d, e, f, p, q}, x] && NeQ[b^2 - 4*a*c, 0] && FractionQ[m] && IntegerQ[p]

1593. Int[((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(q_.)*((a_) + (c_.)*(x_)^4
)^(p_), x_Symbol] := With[{k = Denominator[m]}, Simp[k/f Subst[Int[x
^(k*(m + 1) - 1)*(d + e*(x^(2*k)/f))^q*(a + c*(x^(4*k)/f))]^p, x], x, (
f*x)^(1/k)], x] /; FreeQ[{a, c, d, e, f, p, q}, x] && FractionQ[m] && IntegerQ[p]

1594. Int[((f_.)*(x_))^(m_.)*((d_) + (e_.)*(x_)^2)*((a_) + (b_.)*(x_)^2 + (c
_.)*(x_)^4)^(p_.), x_Symbol] := Simp[(f*x)^(m + 1)*(a + b*x^2 + c*x^4)
^p*((d*(m + 4*p + 3) + e*(m + 1)*x^2)/(f*(m + 1)*(m + 4*p + 3))), x] +
Simp[2*(p/(f^2*(m + 1)*(m + 4*p + 3))) Int[(f*x)^(m + 2)*(a + b*x^2
+ c*x^4)^(p - 1)*Simp[2*a*e*(m + 1) - b*d*(m + 4*p + 3) + (b*e*(m + 1)
) - 2*c*d*(m + 4*p + 3)]*x^2, x], x] /; FreeQ[{a, b, c, d, e, f},
x] && NeQ[b^2 - 4*a*c, 0] && GtQ[p, 0] && LtQ[m, -1] && m + 4*p + 3 !=
0 && IntegerQ[2*p] && (IntegerQ[p] || IntegerQ[m])

1595. Int[((f_.)*(x_))^(m_.)*((d_) + (e_.)*(x_)^2)*((a_) + (c_.)*(x_)^4)^(p
.), x_Symbol] := Simp[(f*x)^(m + 1)*(a + c*x^4)^p*((d*(m + 4*p + 3) +
e*(m + 1)*x^2)/(f*(m + 1)*(m + 4*p + 3))), x] + Simp[4*(p/(f^2*(m + 1)
*(m + 4*p + 3))) Int[(f*x)^(m + 2)*(a + c*x^4)^(p - 1)*(a*e*(m + 1)
- c*d*(m + 4*p + 3)*x^2), x], x] /; FreeQ[{a, c, d, e, f}, x] && GtQ[p
, 0] && LtQ[m, -1] && m + 4*p + 3 != 0 && IntegerQ[2*p] && (IntegerQ[p]
|| IntegerQ[m])

1596. Int[((f_.)*(x_))^(m_.)*((d_) + (e_.)*(x_)^2)*((a_) + (b_.)*(x_)^2 + (c
_.)*(x_)^4)^(p_.), x_Symbol] := Simp[(f*x)^(m + 1)*(a + b*x^2 + c*x^4)
^p*((b*e*2*p + c*d*(m + 4*p + 3) + c*e*(4*p + m + 1)*x^2)/(c*f*(4*p +
m + 1)*(m + 4*p + 3))), x] + Simp[2*(p/(c*(4*p + m + 1)*(m + 4*p + 3))
) Int[(f*x)^m*(a + b*x^2 + c*x^4)^(p - 1)*Simp[2*a*c*d*(m + 4*p + 3)

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- $$- a*b*e*(m + 1) + (2*a*c*e*(4*p + m + 1) + b*c*d*(m + 4*p + 3) - b^2*e*(m + 2*p + 1))*x^2, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[4*p + m + 1, 0] \&\& \text{NeQ}[m + 4*p + 3, 0] \&\& \text{IntegerQ}[2*p] \&\& (\text{IntegerQ}[p] \parallel \text{IntegerQ}[m])$$
1597. $\text{Int}[(f_)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(c_)*(x_)^4)^{(p_)} , x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*(a+c*x^4)^p*((c*d*(m+4*p+3)+c*e*(4*p+m+1)*x^2)/(c*f*(4*p+m+1)*(m+4*p+3))], x] + \text{Simp}[4*a*(p/((4*p+m+1)*(m+4*p+3))) \text{Int}[(f*x)^m*(a+c*x^4)^{(p-1)}*\text{Simp}[d*(m+4*p+3)+e*(4*p+m+1)*x^2, x], x], x] /; \text{FreeQ}[\{a, c, d, e, f, m\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[4*p+m+1, 0] \&\& \text{NeQ}[m+4*p+3, 0] \&\& \text{IntegerQ}[2*p] \&\& (\text{IntegerQ}[p] \parallel \text{IntegerQ}[m])$
1598. $\text{Int}[(f_)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)} , x_Symbol] \rightarrow \text{Simp}[f*(f*x)^{(m-1)}*(a+b*x^2+c*x^4)^{(p+1)}*((b*d-2*a*e-(b*e-2*c*d)*x^2)/(2*(p+1)*(b^2-4*a*c))], x] - \text{Simp}[f^2/(2*(p+1)*(b^2-4*a*c)) \text{Int}[(f*x)^{(m-2)}*(a+b*x^2+c*x^4)^{(p+1)}*\text{Simp}[(m-1)*(b*d-2*a*e)-(4*p+4+m+1)*(b*e-2*c*d)*x^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 1] \&\& \text{IntegerQ}[2*p] \&\& (\text{IntegerQ}[p] \parallel \text{IntegerQ}[m])$
1599. $\text{Int}[(f_)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(c_)*(x_)^4)^{(p_)} , x_Symbol] \rightarrow \text{Simp}[f*(f*x)^{(m-1)}*(a+c*x^4)^{(p+1)}*((a*e-c*d*x^2)/(4*a*c*(p+1))), x] - \text{Simp}[f^2/(4*a*c*(p+1)) \text{Int}[(f*x)^{(m-2)}*(a+c*x^4)^{(p+1)}*(a*e*(m-1)-c*d*(4*p+4+m+1)*x^2), x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, 1] \&\& \text{IntegerQ}[2*p] \&\& (\text{IntegerQ}[p] \parallel \text{IntegerQ}[m])$
1600. $\text{Int}[(f_)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)} , x_Symbol] \rightarrow \text{Simp}[(-f*x)^{(m+1)}*(a+b*x^2+c*x^4)^{(p+1)}*((d*(b^2-2*a*c)-a*b*e+(b*d-2*a*e)*c*x^2)/(2*a*f*(p+1)*(b^2-4*a*c))], x] + \text{Simp}[1/(2*a*(p+1)*(b^2-4*a*c)) \text{Int}[(f*x)^m*(a+b*x^2+c*x^4)^{(p+1)}*\text{Simp}[d*(b^2*(m+2*(p+1)+1)-2*a*c*(m+4*(p+1)+1)-a*b*e*(m+1)+c*(m+2*(2*p+3)+1)*(b*d-2*a*e)*x^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2*p] \&\& (\text{IntegerQ}[p] \parallel \text{IntegerQ}[m])$

erQ[m])

1601. $\text{Int}[(f_.)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(c_)*(x_)^4)^{(p_)}(x_Symbol) \rightarrow \text{Simp}[(-f*x)^{(m+1)}*(a+c*x^4)^{(p+1)}*((d+e*x^2)/(4*a*f*(p+1))), x] + \text{Simp}[1/(4*a*(p+1)) \text{Int}[(f*x)^m*(a+c*x^4)^{(p+1)}*\text{Simp}[d*(m+4*(p+1)+1)+e*(m+2*(2*p+3)+1)*x^2, x], x], x] /;$ FreeQ[{a, c, d, e, f, m}, x] && LtQ[p, -1] && IntegerQ[2*p] && (IntegerQ[p] || IntegerQ[m])
1602. $\text{Int}[(f_.)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)}(x_Symbol) \rightarrow \text{Simp}[e*f*(f*x)^{(m-1)}*((a+b*x^2+c*x^4)^{(p+1)}/(c*(m+4*p+3))), x] - \text{Simp}[f^2/(c*(m+4*p+3)) \text{Int}[(f*x)^{(m-2)}*(a+b*x^2+c*x^4)^p*\text{Simp}[a*e*(m-1)+(b*e*(m+2*p+1)-c*d*(m+4*p+3)*x^2, x], x], x] /;$ FreeQ[{a, b, c, d, e, f, p}, x] && NeQ[b^2-4*a*c, 0] && GtQ[m, 1] && NeQ[m+4*p+3, 0] && IntegerQ[2*p] && (IntegerQ[p] || IntegerQ[m])
1603. $\text{Int}[(f_.)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(c_)*(x_)^4)^{(p_)}(x_Symbol) \rightarrow \text{Simp}[e*f*(f*x)^{(m-1)}*((a+c*x^4)^{(p+1)}/(c*(m+4*p+3))), x] - \text{Simp}[f^2/(c*(m+4*p+3)) \text{Int}[(f*x)^{(m-2)}*(a+c*x^4)^p*(a*e*(m-1)-c*d*(m+4*p+3)*x^2), x], x] /;$ FreeQ[{a, c, d, e, f, p}, x] && GtQ[m, 1] && NeQ[m+4*p+3, 0] && IntegerQ[2*p] && (IntegerQ[p] || IntegerQ[m])
1604. $\text{Int}[(f_.)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)}(x_Symbol) \rightarrow \text{Simp}[d*(f*x)^{(m+1)}*((a+b*x^2+c*x^4)^{(p+1)}/(a*f*(m+1))), x] + \text{Simp}[1/(a*f^2*(m+1)) \text{Int}[(f*x)^{(m+2)}*(a+b*x^2+c*x^4)^p*\text{Simp}[a*e*(m+1)-b*d*(m+2*p+3)-c*d*(m+4*p+5)*x^2, x], x], x] /;$ FreeQ[{a, b, c, d, e, f, p}, x] && NeQ[b^2-4*a*c, 0] && LtQ[m, -1] && IntegerQ[2*p] && (IntegerQ[p] || IntegerQ[m])
1605. $\text{Int}[(f_.)*(x_)]^{(m_)}*((d_)+(e_)*(x_)^2)*((a_)+(c_)*(x_)^4)^{(p_)}(x_Symbol) \rightarrow \text{Simp}[d*(f*x)^{(m+1)}*((a+c*x^4)^{(p+1)}/(a*f*(m+1))), x] + \text{Simp}[1/(a*f^2*(m+1)) \text{Int}[(f*x)^{(m+2)}*(a+c*x^4)^p*(a*e*(m+1)-c*d*(m+4*p+5)*x^2), x], x] /;$ FreeQ[{a, c, d, e, f, p}, x] && LtQ[m, -1] && IntegerQ[2*p] && (IntegerQ[p] || IntegerQ[m])

1606. $\text{Int}[(((f_.)*(x_))^m_)*((d_)+(e_)*(x_)^2)/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{With}[\{r = \text{Rt}[(c/e)*(2*c*d - b*e), 2]\}, \text{Simp}[e/2 \text{ Int}[(f*x)^m/(c*(d/e) - r*x + c*x^2), x], x] + \text{Simp}[e/2 \text{ Int}[(f*x)^m/(c*(d/e) + r*x + c*x^2), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{GtQ}[d/e, 0] \&\& \text{PosQ}[(c/e)*(2*c*d - b*e)]$
1607. $\text{Int}[(((f_.)*(x_))^m_)*((d_)+(e_)*(x_)^2)/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{With}[\{r = \text{Rt}[2*c^2*(d/e), 2]\}, \text{Simp}[e/2 \text{ Int}[(f*x)^m/(c*(d/e) - r*x + c*x^2), x], x] + \text{Simp}[e/2 \text{ Int}[(f*x)^m/(c*(d/e) + r*x + c*x^2), x], x]] /; \text{FreeQ}[\{a, c, d, e, f, m\}, x] \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{GtQ}[d/e, 0]$
1608. $\text{Int}[(((f_.)*(x_))^m_)*((d_)+(e_)*(x_)^2)/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(e/2 + (2*c*d - b*e)/(2*q)) \text{ Int}[(f*x)^m/(b/2 - q/2 + c*x^2), x], x] + \text{Simp}[(e/2 - (2*c*d - b*e)/(2*q)) \text{ Int}[(f*x)^m/(b/2 + q/2 + c*x^2), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
1609. $\text{Int}[(((f_.)*(x_))^m_)*((d_)+(e_)*(x_)^2)/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(-a)*c, 2]\}, \text{Simp}[-(e/2 + c*(d/(2*q))) \text{ Int}[(f*x)^m/(q - c*x^2), x], x] + \text{Simp}[(e/2 - c*(d/(2*q))) \text{ Int}[(f*x)^m/(q + c*x^2), x], x]] /; \text{FreeQ}[\{a, c, d, e, f, m\}, x]$
1610. $\text{Int}[(((f_.)*(x_))^m_)*((d_)+(e_)*(x_)^2)^(q_)/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m*((d + e*x^2)^q/(a + b*x^2 + c*x^4)), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[q] \&\& \text{IntegerQ}[m]$
1611. $\text{Int}[(((f_.)*(x_))^m_)*((d_)+(e_)*(x_)^2)^(q_)/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m*((d + e*x^2)^q/(a + c*x^4)), x], x] /; \text{FreeQ}[\{a, c, d, e, f, m\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IntegerQ}[m]$

1612. $\text{Int}[(((f_.)*(x_))^{\text{m_}}*((d_)+(e_)*(x_)^2)^{\text{q_}})/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m, (d+e*x^2)^q/(a+b*x^2+c*x^4), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& \text{IntegerQ}[q] \&\& !\text{IntegerQ}[m]$
1613. $\text{Int}[(((f_.)*(x_))^{\text{m_}}*((d_)+(e_)*(x_)^2)^{\text{q_}})/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m, (d+e*x^2)^q/(a+c*x^4), x], x] /; \text{FreeQ}\{a, c, d, e, f, m\}, x] \&\& \text{IntegerQ}[q] \&\& !\text{IntegerQ}[m]$
1614. $\text{Int}[(((f_.)*(x_))^{\text{m_}}*((d_)+(e_)*(x_)^2)^{\text{q_}})/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[f^4/c^2 \text{Int}[(f*x)^{m-4}*(c*d-b*e+c*e*x^2)*(d+e*x^2)^{q-1}, x], x] - \text{Simp}[f^4/c^2 \text{Int}[(f*x)^{m-4}*(d+e*x^2)^{q-1}*(\text{Simp}[a*(c*d-b*e)+(b*c*d-b^2*e+a*c*e)*x^2, x]/(a+b*x^2+c*x^4)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[m, 3]$
1615. $\text{Int}[(((f_.)*(x_))^{\text{m_}}*((d_)+(e_)*(x_)^2)^{\text{q_}})/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[f^4/c \text{Int}[(f*x)^{m-4}*(d+e*x^2)^q, x], x] - \text{Simp}[a*(f^4/c) \text{Int}[(f*x)^{m-4}*((d+e*x^2)^q/(a+c*x^4)), x], x] /; \text{FreeQ}\{a, c, d, e, f, q\}, x] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[m, 3]$
1616. $\text{Int}[(((f_.)*(x_))^{\text{m_}}*((d_)+(e_)*(x_)^2)^{\text{q_}})/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[e*(f^2/c) \text{Int}[(f*x)^{m-2}*(d+e*x^2)^{q-1}, x], x] - \text{Simp}[f^2/c \text{Int}[(f*x)^{m-2}*(d+e*x^2)^{q-1}*(\text{Simp}[a*e-(c*d-b*e)*x^2, x]/(a+b*x^2+c*x^4)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[m, 1] \&\& \text{LeQ}[m, 3]$
1617. $\text{Int}[(((f_.)*(x_))^{\text{m_}}*((d_)+(e_)*(x_)^2)^{\text{q_}})/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[e*(f^2/c) \text{Int}[(f*x)^{m-2}*(d+e*x^2)^{q-1}, x], x] - \text{Simp}[f^2/c \text{Int}[(f*x)^{m-2}*(d+e*x^2)^{q-1}*(\text{Simp}[a*e-c*d*x^2, x]/(a+c*x^4)), x], x] /; \text{FreeQ}\{a, c, d, e, f\}, x] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[m, 1] \&\& \text{LeQ}[m, 3]$

1618. $\text{Int}[(((f_.)*(x_))^m)*((d_)+(e_)*(x_)^2)^q)/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[d/a \text{ Int}[(f*x)^m*(d+e*x^2)^{q-1}, x], x] - \text{Simp}[1/(a*f^2) \text{ Int}[(f*x)^{m+2}*(d+e*x^2)^{q-1}*(\text{Simp}[b*d-a*e+c*d*x^2, x]/(a+b*x^2+c*x^4)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& \text{!IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{LtQ}[m, 0]$
1619. $\text{Int}[(((f_.)*(x_))^m)*((d_)+(e_)*(x_)^2)^q)/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[d/a \text{ Int}[(f*x)^m*(d+e*x^2)^{q-1}, x], x] + \text{Simp}[1/(a*f^2) \text{ Int}[(f*x)^{m+2}*(d+e*x^2)^{q-1}*(\text{Simp}[a*e-c*d*x^2, x]/(a+c*x^4)), x], x] /; \text{FreeQ}\{a, c, d, e, f\}, x] \&\& \text{!IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{LtQ}[m, 0]$
1620. $\text{Int}[(((f_.)*(x_))^m)*((d_)+(e_)*(x_)^2)^q)/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[d^2*(f^4/(c*d^2-b*d*e+a*e^2)) \text{ Int}[(f*x)^{m-4}*(d+e*x^2)^q, x], x] - \text{Simp}[f^4/(c*d^2-b*d*e+a*e^2) \text{ Int}[(f*x)^{m-4}*(d+e*x^2)^{q+1}*(\text{Simp}[a*d+(b*d-a*e)*x^2, x]/(a+b*x^2+c*x^4)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& \text{!IntegerQ}[q] \&\& \text{LtQ}[q, -1] \&\& \text{GtQ}[m, 3]$
1621. $\text{Int}[(((f_.)*(x_))^m)*((d_)+(e_)*(x_)^2)^q)/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[d^2*(f^4/(c*d^2+a*e^2)) \text{ Int}[(f*x)^{m-4}*(d+e*x^2)^q, x], x] - \text{Simp}[a*(f^4/(c*d^2+a*e^2)) \text{ Int}[(f*x)^{m-4}*(d+e*x^2)^{q+1}*((d-e*x^2)/(a+c*x^4)), x], x] /; \text{FreeQ}\{a, c, d, e, f\}, x] \&\& \text{!IntegerQ}[q] \&\& \text{LtQ}[q, -1] \&\& \text{GtQ}[m, 3]$
1622. $\text{Int}[(((f_.)*(x_))^m)*((d_)+(e_)*(x_)^2)^q)/((a_)+(b_)*(x_)^2+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[(-d)*e*(f^2/(c*d^2-b*d*e+a*e^2)) \text{ Int}[(f*x)^{m-2}*(d+e*x^2)^q, x], x] + \text{Simp}[f^2/(c*d^2-b*d*e+a*e^2) \text{ Int}[(f*x)^{m-2}*(d+e*x^2)^{q+1}*(\text{Simp}[a*e+c*d*x^2, x]/(a+b*x^2+c*x^4)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& \text{!IntegerQ}[q] \&\& \text{LtQ}[q, -1] \&\& \text{GtQ}[m, 1] \&\& \text{LeQ}[m, 3]$
1623. $\text{Int}[(((f_.)*(x_))^m)*((d_)+(e_)*(x_)^2)^q)/((a_)+(c_)*(x_)^4), x_Symbol] \rightarrow \text{Simp}[(-d)*e*(f^2/(c*d^2+a*e^2)) \text{ Int}[(f*x)^{m-2}*(d+e*x^2)^q, x], x] + \text{Simp}[f^2/(c*d^2+a*e^2) \text{ Int}[(f*x)^{m-2}$

- $(d + ex^2)^{q+1} \left(\frac{\text{Simp}[a e + c d x^2, x]}{a + c x^4} \right), x, x$ /; FreeQ[{a, c, d, e, f}, x] && !IntegerQ[q] && LtQ[q, -1] && GtQ[m, 1] && LeQ[m, 3]
1624. $\text{Int}[(((f_)(x_))^{(m_)}((d_)+(e_)(x_)^2)^{(q_))}/((a_)+(b_)(x_)^2+(c_)(x_)^4), x_Symbol] \rightarrow \text{Simp}[e^2/(c d^2 - b d e + a e^2) \text{Int}[(f x)^m (d + e x^2)^q, x], x] + \text{Simp}[1/(c d^2 - b d e + a e^2) \text{Int}[(f x)^m (d + e x^2)^{(q+1)} (\text{Simp}[c d - b e - c e x^2, x]/(a + b x^2 + c x^4)), x], x]$ /; FreeQ[{a, b, c, d, e, f, m}, x] && NeQ[b^2 - 4 a c, 0] && !IntegerQ[q] && LtQ[q, -1]
1625. $\text{Int}[(((f_)(x_))^{(m_)}((d_)+(e_)(x_)^2)^{(q_))}/((a_)+(c_)(x_)^4), x_Symbol] \rightarrow \text{Simp}[e^2/(c d^2 + a e^2) \text{Int}[(f x)^m (d + e x^2)^q, x], x] + \text{Simp}[c/(c d^2 + a e^2) \text{Int}[(f x)^m (d + e x^2)^{(q+1)} ((d - e x^2)/(a + c x^4)), x], x]$ /; FreeQ[{a, c, d, e, f, m}, x] && !IntegerQ[q] && LtQ[q, -1]
1626. $\text{Int}[(((f_)(x_))^{(m_)}((d_)+(e_)(x_)^2)^{(q_))}/((a_)+(b_)(x_)^2+(c_)(x_)^4), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e x^2)^q, (f x)^m/(a + b x^2 + c x^4), x], x]$ /; FreeQ[{a, b, c, d, e, f, q}, x] && NeQ[b^2 - 4 a c, 0] && !IntegerQ[q] && IntegerQ[m]
1627. $\text{Int}[(((f_)(x_))^{(m_)}((d_)+(e_)(x_)^2)^{(q_))}/((a_)+(c_)(x_)^4), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e x^2)^q, (f x)^m/(a + c x^4), x], x]$ /; FreeQ[{a, c, d, e, f, q}, x] && !IntegerQ[q] && IntegerQ[m]
1628. $\text{Int}[(((f_)(x_))^{(m_)}((d_)+(e_)(x_)^2)^{(q_))}/((a_)+(b_)(x_)^2+(c_)(x_)^4), x_Symbol] \rightarrow \text{With}[\{r = \text{Rt}[b^2 - 4 a c, 2]\}, \text{Simp}[2 * (c/r) \text{Int}[(f x)^m ((d + e x^2)^q/(b - r + 2 c x^2)), x], x] - \text{Simp}[2 * (c/r) \text{Int}[(f x)^m ((d + e x^2)^q/(b + r + 2 c x^2)), x], x]]$ /; FreeQ[{a, b, c, d, e, f, m, q}, x] && NeQ[b^2 - 4 a c, 0]
1629. $\text{Int}[(((f_)(x_))^{(m_)}((d_)+(e_)(x_)^2)^{(q_))}/((a_)+(c_)(x_)^4), x_Symbol] \rightarrow \text{With}[\{r = \text{Rt}[(-a) c, 2]\}, \text{Simp}[-c/(2 * r) \text{Int}[(f x)^m ((d + e x^2)^q/(r - c x^2)), x], x] - \text{Simp}[c/(2 * r) \text{Int}[(f x)^m ((d$

- + $e*x^2)^q/(r + c*x^2)$, x], x]] /; FreeQ[{a, c, d, e, f, m, q}, x]
1630. Int[((x_)^(m_)*((a_.) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_))/((d_) + (e_.)*(x_)^2), x_Symbol] := Simp[(-(-d/e)^(m/2))*((c*d^2 - b*d*e + a*e^2)^(p + 1/2)/(e^(2*p)*(c*d^2 - a*e^2))) Int[(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] + Simp[1/(e^(2*p)*(c*d^2 - a*e^2)) Int[(1/Sqrt[a + b*x^2 + c*x^4])*ExpandToSum[(e^(2*p)*(c*d^2 - a*e^2)*x^m*(a + b*x^2 + c*x^4)^(p + 1/2) + (-d/e)^(m/2)*(c*d^2 - b*d*e + a*e^2)^(p + 1/2)*(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)]/(d + e*x^2), x], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && IGtQ[p + 1/2, 0] && IGtQ[m/2, 0] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a]
1631. Int[((x_)^(m_)*((a_) + (c_.)*(x_)^4)^(p_))/((d_) + (e_.)*(x_)^2), x_Symbol] := Simp[(-(-d/e)^(m/2))*((c*d^2 + a*e^2)^(p + 1/2)/(e^(2*p)*(c*d^2 - a*e^2))) Int[(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] + Simp[1/(e^(2*p)*(c*d^2 - a*e^2)) Int[(1/Sqrt[a + c*x^4])*ExpandToSum[(e^(2*p)*(c*d^2 - a*e^2)*x^m*(a + c*x^4)^(p + 1/2) + (-d/e)^(m/2)*(c*d^2 + a*e^2)^(p + 1/2)*(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)]/(d + e*x^2), x], x], x] /; FreeQ[{a, c, d, e}, x] && IGtQ[p + 1/2, 0] && IGtQ[m/2, 0] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a]
1632. Int[((x_)^(m_)*((a_.) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_))/((d_) + (e_.)*(x_)^2), x_Symbol] := Simp[(-d/e)^(m/2)*((c*d^2 - b*d*e + a*e^2)^(p + 1/2)/e^(2*p + 1)) Int[1/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] + Simp[1/e^(2*p + 1) Int[(1/Sqrt[a + b*x^2 + c*x^4])*ExpandToSum[(e^(2*p + 1)*x^m*(a + b*x^2 + c*x^4)^(p + 1/2) - (-d/e)^(m/2)*(c*d^2 - b*d*e + a*e^2)^(p + 1/2)]/(d + e*x^2), x], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && IGtQ[p + 1/2, 0] && IGtQ[m/2, 0] && NeQ[c*d^2 - a*e^2, 0] && NegQ[c/a]
1633. Int[((x_)^(m_)*((a_) + (c_.)*(x_)^4)^(p_))/((d_) + (e_.)*(x_)^2), x_Symbol] := Simp[(-d/e)^(m/2)*((c*d^2 + a*e^2)^(p + 1/2)/e^(2*p + 1)) Int[1/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] + Simp[1/e^(2*p + 1) Int[(1/Sqrt[a + c*x^4])*ExpandToSum[(e^(2*p + 1)*x^m*(a + c*x^4)^(p + 1/2) - (-d/e)^(m/2)*(c*d^2 + a*e^2)^(p + 1/2)]/(d + e*x^2), x], x], x] /;

FreeQ[{a, c, d, e}, x] && IGtQ[p + 1/2, 0] && IGtQ[m/2, 0] && NeQ[c*d^2 - a*e^2, 0] && NegQ[c/a]

1634. Int[((x_)^(m_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_))/((d_) + (e_)*(x_)^2), x_Symbol] :> Simp[(-(-d/e)^(m/2))*((c*d^2 - b*d*e + a*e^2)^(p + 1/2)/(e^(2*p)*(c*d^2 - a*e^2)))] Int[(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] + Simp[(-d/e)^(m/2)/(e^(2*p)*(c*d^2 - a*e^2))] Int[(x^m/Sqrt[a + b*x^2 + c*x^4])*ExpandToSum[((e^(2*p)*(c*d^2 - a*e^2)*(a + b*x^2 + c*x^4)^(p + 1/2)))/(-d/e)^(m/2) + ((a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)*(c*d^2 - b*d*e + a*e^2)^(p + 1/2))/x^m)/(d + e*x^2), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && IGtQ[p + 1/2, 0] && ILtQ[m/2, 0] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a]

1635. Int[((x_)^(m_)*((a_) + (c_)*(x_)^4)^(p_))/((d_) + (e_)*(x_)^2), x_Symbol] :> Simp[(-(-d/e)^(m/2))*((c*d^2 + a*e^2)^(p + 1/2)/(e^(2*p)*(c*d^2 - a*e^2)))] Int[(a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] + Simp[(-d/e)^(m/2)/(e^(2*p)*(c*d^2 - a*e^2))] Int[(x^m/Sqrt[a + c*x^4])*ExpandToSum[((e^(2*p)*(c*d^2 - a*e^2)*(a + c*x^4)^(p + 1/2)))/(-d/e)^(m/2) + ((a*d*Rt[c/a, 2] + a*e + (c*d + a*e*Rt[c/a, 2])*x^2)*(c*d^2 + a*e^2)^(p + 1/2))/x^m)/(d + e*x^2), x], x], x] /; FreeQ[{a, c, d, e}, x] && IGtQ[p + 1/2, 0] && ILtQ[m/2, 0] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a]

1636. Int[((x_)^(m_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_))/((d_) + (e_)*(x_)^2), x_Symbol] :> Simp[(-d/e)^(m/2)*((c*d^2 - b*d*e + a*e^2)^(p + 1/2)/e^(2*p + 1))] Int[1/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] + Simp[(-d/e)^(m/2)/e^(2*p + 1)] Int[(x^m/Sqrt[a + b*x^2 + c*x^4])*ExpandToSum[((e^(2*p + 1)*(a + b*x^2 + c*x^4)^(p + 1/2)))/(-d/e)^(m/2) - (c*d^2 - b*d*e + a*e^2)^(p + 1/2)/x^m)/(d + e*x^2), x], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && IGtQ[p + 1/2, 0] && ILtQ[m/2, 0] && NeQ[c*d^2 - a*e^2, 0] && NegQ[c/a]

1637. Int[((x_)^(m_)*((a_) + (c_)*(x_)^4)^(p_))/((d_) + (e_)*(x_)^2), x_Symbol] :> Simp[(-d/e)^(m/2)*((c*d^2 + a*e^2)^(p + 1/2)/e^(2*p + 1))] Int[1/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] + Simp[(-d/e)^(m/2)/e^(2*p + 1)] Int[(x^m/Sqrt[a + c*x^4])*ExpandToSum[((e^(2*p + 1)*(a + c*x^4)

$$\begin{aligned} & \wedge(p + 1/2))/(-d/e)^{(m/2)} - (c*d^2 + a*e^2)^{(p + 1/2)}/x^m)/(d + e*x^2), \\ & x], x], x] /; \text{FreeQ}\{a, c, d, e\}, x\} \&\& \text{IGtQ}[p + 1/2, 0] \&\& \text{ILtQ}[m/2, \\ & 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[c/a] \end{aligned}$$

1638. $\text{Int}[(x^m)((a) + (b)(x)^2 + (c)(x)^4)^{(p)}]/((d) + (e)(x)^2), x_Symbol] \rightarrow \text{Simp}[(-(-d/e)^{(m/2)})((c*d^2 - b*d*e + a*e^2)^{(p + 1/2)}/(e^{(2*p)}*(\text{Rt}[c/a, 2]*d - e)))] \text{Int}[(1 + \text{Rt}[c/a, 2]*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] + \text{Simp}[(c*d^2 - b*d*e + a*e^2)^{(p + 1/2)}/(\text{Rt}[c/a, 2]*d - e)] \text{Int}[(a + b*x^2 + c*x^4)^p \text{ExpandToSum}[(\text{Rt}[c/a, 2]*d - e)*(c*d^2 - b*d*e + a*e^2)^{-(p - 1/2)}*x^m + ((-d/e)^{(m/2)}*(1 + \text{Rt}[c/a, 2]*x^2)*(a + b*x^2 + c*x^4)^{-(p - 1/2)})/e^{(2*p)}]/(d + e*x^2), x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{IGtQ}[m/2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[c/a]$

1639. $\text{Int}[(x^m)((a) + (c)(x)^4)^{(p)}]/((d) + (e)(x)^2), x_Symbol] \rightarrow \text{Simp}[(-(-d/e)^{(m/2)})((c*d^2 + a*e^2)^{(p + 1/2)}/(e^{(2*p)}*(\text{Rt}[c/a, 2]*d - e)))] \text{Int}[(1 + \text{Rt}[c/a, 2]*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] + \text{Simp}[(c*d^2 + a*e^2)^{(p + 1/2)}/(\text{Rt}[c/a, 2]*d - e)] \text{Int}[(a + c*x^4)^p \text{ExpandToSum}[(\text{Rt}[c/a, 2]*d - e)*(c*d^2 + a*e^2)^{-(p - 1/2)}*x^m + ((-d/e)^{(m/2)}*(1 + \text{Rt}[c/a, 2]*x^2)*(a + c*x^4)^{-(p - 1/2)})/e^{(2*p)}]/(d + e*x^2), x], x], x] /; \text{FreeQ}\{a, c, d, e\}, x\} \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{IGtQ}[m/2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[c/a]$

1640. $\text{Int}[(x^m)((a) + (b)(x)^2 + (c)(x)^4)^{(p)}]/((d) + (e)(x)^2), x_Symbol] \rightarrow \text{Simp}[(-d/e)^{(m/2)}((c*d^2 - b*d*e + a*e^2)^{(p + 1/2)}/e^{(2*p + 1)})] \text{Int}[1/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] + \text{Simp}[(c*d^2 - b*d*e + a*e^2)^{(p + 1/2)}] \text{Int}[(a + b*x^2 + c*x^4)^p \text{ExpandToSum}[(c*d^2 - b*d*e + a*e^2)^{-(p - 1/2)}*x^m - e^{(-2*p - 1)}*(-d/e)^{(m/2)}*(a + b*x^2 + c*x^4)^{-(p - 1/2)}]/(d + e*x^2), x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{IGtQ}[m/2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[c/a]$

1641. $\text{Int}[(x^m)((a) + (c)(x)^4)^{(p)}]/((d) + (e)(x)^2), x_Symbol] \rightarrow \text{Simp}[(-d/e)^{(m/2)}((c*d^2 + a*e^2)^{(p + 1/2)}/e^{(2*p + 1)})] \text{Int}[1/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] + \text{Simp}[(c*d^2 + a*e^2)^{(p + 1/2)}] \text{Int}[(a + c*x^4)^p \text{ExpandToSum}[(c*d^2 + a*e^2)^{-(p - 1/2)}*x^m$

- $$- e^{(-2*p - 1)*(-d/e)^{(m/2)}*(a + c*x^4)^{(-p - 1/2)}}/(d + e*x^2), x], x$$

$$], x] /; \text{FreeQ}\{a, c, d, e\}, x] \ \&\& \ \text{ILtQ}[p + 1/2, 0] \ \&\& \ \text{IGtQ}[m/2, 0] \ \&\& \ \text{NeQ}[c*d^2 - a*e^2, 0] \ \&\& \ \text{NegQ}[c/a]$$
1642.
$$\text{Int}[(x_)^{(m_)}*((a_.) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^{(p_)}]/((d_) + (e_.)*(x_)^2), x_Symbol] \text{:>} \text{Simp}[(-(-d/e)^{(m/2)})*((c*d^2 - b*d*e + a*e^2)^{(p + 1/2)}/(e^{(2*p)}*(\text{Rt}[c/a, 2]*d - e)))] \ \text{Int}[(1 + \text{Rt}[c/a, 2]*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] + \text{Simp}[(-d/e)^{(m/2)}*((c*d^2 - b*d*e + a*e^2)^{(p + 1/2)}/(\text{Rt}[c/a, 2]*d - e))] \ \text{Int}[x^m*(a + b*x^2 + c*x^4)^p*\text{ExpandToSum}[(((\text{Rt}[c/a, 2]*d - e)*(c*d^2 - b*d*e + a*e^2)^{(-p - 1/2)})/(-d/e)^{(m/2)} + ((1 + \text{Rt}[c/a, 2]*x^2)*(a + b*x^2 + c*x^4)^{(-p - 1/2)})/(e^{(2*p)}*x^m))]/(d + e*x^2), x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{ILtQ}[p + 1/2, 0] \ \&\& \ \text{ILtQ}[m/2, 0] \ \&\& \ \text{NeQ}[c*d^2 - a*e^2, 0] \ \&\& \ \text{PosQ}[c/a]$$
1643.
$$\text{Int}[(x_)^{(m_)}*((a_) + (c_.)*(x_)^4)^{(p_)}]/((d_) + (e_.)*(x_)^2), x_Symbol] \text{:>} \text{Simp}[(-(-d/e)^{(m/2)})*((c*d^2 + a*e^2)^{(p + 1/2)}/(e^{(2*p)}*(\text{Rt}[c/a, 2]*d - e)))] \ \text{Int}[(1 + \text{Rt}[c/a, 2]*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] + \text{Simp}[(-d/e)^{(m/2)}*((c*d^2 + a*e^2)^{(p + 1/2)}/(\text{Rt}[c/a, 2]*d - e))] \ \text{Int}[x^m*(a + c*x^4)^p*\text{ExpandToSum}[(((\text{Rt}[c/a, 2]*d - e)*(c*d^2 + a*e^2)^{(-p - 1/2)})/(-d/e)^{(m/2)} + ((1 + \text{Rt}[c/a, 2]*x^2)*(a + c*x^4)^{(-p - 1/2)})/(e^{(2*p)}*x^m))]/(d + e*x^2), x], x], x] /; \text{FreeQ}\{a, c, d, e\}, x] \ \&\& \ \text{ILtQ}[p + 1/2, 0] \ \&\& \ \text{ILtQ}[m/2, 0] \ \&\& \ \text{NeQ}[c*d^2 - a*e^2, 0] \ \&\& \ \text{PosQ}[c/a]$$
1644.
$$\text{Int}[(x_)^{(m_)}*((a_.) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^{(p_)}]/((d_) + (e_.)*(x_)^2), x_Symbol] \text{:>} \text{Simp}[(-d/e)^{(m/2)}*((c*d^2 - b*d*e + a*e^2)^{(p + 1/2)}/e^{(2*p + 1)})] \ \text{Int}[1/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] + \text{Simp}[(-d/e)^{(m/2)}*(c*d^2 - b*d*e + a*e^2)^{(p + 1/2)}] \ \text{Int}[x^m*(a + b*x^2 + c*x^4)^p*\text{ExpandToSum}[((c*d^2 - b*d*e + a*e^2)^{(-p - 1/2)}/(-d/e)^{(m/2)} - (e^{(-2*p - 1)}*(a + b*x^2 + c*x^4)^{(-p - 1/2)})/x^m)]/(d + e*x^2), x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{ILtQ}[p + 1/2, 0] \ \&\& \ \text{ILtQ}[m/2, 0] \ \&\& \ \text{NeQ}[c*d^2 - a*e^2, 0] \ \&\& \ \text{NegQ}[c/a]$$
1645.
$$\text{Int}[(x_)^{(m_)}*((a_) + (c_.)*(x_)^4)^{(p_)}]/((d_) + (e_.)*(x_)^2), x_Symbol] \text{:>} \text{Simp}[(-d/e)^{(m/2)}*((c*d^2 + a*e^2)^{(p + 1/2)}/e^{(2*p + 1)})] \ \text{I}$$

- $$\text{nt}[1/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] + \text{Simp}[(-d/e)^{(m/2)}*(c*d^2 + a*e^2)^{(p + 1/2)} \text{Int}[x^m*(a + c*x^4)^p*\text{ExpandToSum}[(c*d^2 + a*e^2)^{-p - 1/2}/(-d/e)^{(m/2)} - (e^{-2*p - 1}*(a + c*x^4)^{-p - 1/2})/x^m]/(d + e*x^2), x], x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{ILtQ}[m/2, 0] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[c/a]$$
1646.
$$\text{Int}[(((f_)*(x_))^{(m_)}*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)})/((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/d^2 \text{Int}[(f*x)^m*(a*d + (b*d - a*e)*x^2)*(a + b*x^2 + c*x^4)^{(p - 1)}, x], x] + \text{Simp}[(c*d^2 - b*d*e + a*e^2)/(d^2*f^4) \text{Int}[(f*x)^{(m + 4)}*((a + b*x^2 + c*x^4)^{(p - 1)})/(d + e*x^2)], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -2]$$
1647.
$$\text{Int}[(((f_)*(x_))^{(m_)}*((a_)+(c_)*(x_)^4)^{(p_)})/((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[a/d^2 \text{Int}[(f*x)^m*(d - e*x^2)*(a + c*x^4)^{(p - 1)}, x], x] + \text{Simp}[(c*d^2 + a*e^2)/(d^2*f^4) \text{Int}[(f*x)^{(m + 4)}*((a + c*x^4)^{(p - 1)})/(d + e*x^2)], x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -2]$$
1648.
$$\text{Int}[(((f_)*(x_))^{(m_)}*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)})/((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/(d*e) \text{Int}[(f*x)^m*(a*e + c*d*x^2)*(a + b*x^2 + c*x^4)^{(p - 1)}, x], x] - \text{Simp}[(c*d^2 - b*d*e + a*e^2)/(d*e*f^2) \text{Int}[(f*x)^{(m + 2)}*((a + b*x^2 + c*x^4)^{(p - 1)})/(d + e*x^2)], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, 0]$$
1649.
$$\text{Int}[(((f_)*(x_))^{(m_)}*((a_)+(c_)*(x_)^4)^{(p_)})/((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/(d*e) \text{Int}[(f*x)^m*(a*e + c*d*x^2)*(a + c*x^4)^{(p - 1)}, x], x] - \text{Simp}[(c*d^2 + a*e^2)/(d*e*f^2) \text{Int}[(f*x)^{(m + 2)}*((a + c*x^4)^{(p - 1)})/(d + e*x^2)], x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, 0]$$
1650.
$$\text{Int}[(((f_)*(x_))^{(m_)}*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)})/((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[-f^4/(c*d^2 - b*d*e + a*e^2) \text{Int}[(f*x)^{(m - 4)}*(a*d + (b*d - a*e)*x^2)*(a + b*x^2 + c*x^4)^p, x], x] + \text{Simp}[d^2*(f^4/(c*d^2 - b*d*e + a*e^2)) \text{Int}[(f*x)^{(m - 4)}*((a + b*x^2 + c*x^4)^{(p + 1)})/(d + e*x^2)], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}$$

- , x] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] && GtQ[m, 2]
1651. $\text{Int}[(((f_)*(x_))^{\text{m_}}*((a_)+(c_)*(x_)^4)^{\text{p_}})/((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(-a)*(f^4/(c*d^2 + a*e^2)) \text{Int}[(f*x)^{\text{m}-4}*(d - e*x^2)*(a + c*x^4)^p, x], x] + \text{Simp}[d^2*(f^4/(c*d^2 + a*e^2)) \text{Int}[(f*x)^{\text{m}-4}*((a + c*x^4)^{\text{p}+1}/(d + e*x^2)), x], x] /;$ FreeQ[{a, c, d, e, f}, x] && LtQ[p, -1] && GtQ[m, 2]
1652. $\text{Int}[(((f_)*(x_))^{\text{m_}}*((a_)+(b_)*(x_)^2 + (c_)*(x_)^4)^{\text{p_}})/((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[f^2/(c*d^2 - b*d*e + a*e^2) \text{Int}[(f*x)^{\text{m}-2}*(a*e + c*d*x^2)*(a + b*x^2 + c*x^4)^p, x], x] - \text{Simp}[d*e*(f^2/(c*d^2 - b*d*e + a*e^2)) \text{Int}[(f*x)^{\text{m}-2}*((a + b*x^2 + c*x^4)^{\text{p}+1}/(d + e*x^2)), x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] && GtQ[m, 0]
1653. $\text{Int}[(((f_)*(x_))^{\text{m_}}*((a_)+(c_)*(x_)^4)^{\text{p_}})/((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[f^2/(c*d^2 + a*e^2) \text{Int}[(f*x)^{\text{m}-2}*(a*e + c*d*x^2)*(a + c*x^4)^p, x], x] - \text{Simp}[d*e*(f^2/(c*d^2 + a*e^2)) \text{Int}[(f*x)^{\text{m}-2}*((a + c*x^4)^{\text{p}+1}/(d + e*x^2)), x], x] /;$ FreeQ[{a, c, d, e, f}, x] && LtQ[p, -1] && GtQ[m, 0]
1654. $\text{Int}[(x_)^2/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[1/(2*e) \text{Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] - \text{Simp}[1/(2*e) \text{Int}[(d - e*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] /;$ FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && PosQ[c/a] && EqQ[c*d^2 - a*e^2, 0]
1655. $\text{Int}[(x_)^2/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[1/(2*e) \text{Int}[1/\text{Sqrt}[a + c*x^4], x], x] - \text{Simp}[1/(2*e) \text{Int}[(d - e*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] /;$ FreeQ[{a, c, d, e}, x] && PosQ[c/a] && EqQ[c*d^2 - a*e^2, 0]
1656. $\text{Int}[(x_)^2/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[(-a)*((e + d*q)/(c*d^2 - a*e^2)) \text{Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[a*d*((e + d*q)/(c*d^2 - a*e^2)) \text{Int}[(1 + q*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x]] /;$ FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] &&

- PosQ[c/a] && NeQ[c*d^2 - a*e^2, 0]
1657. Int[(x_)^2/(((d_) + (e_.)*(x_)^2)*Sqrt[(a_) + (c_.)*(x_)^4]), x_Symbol] :> With[{q = Rt[c/a, 2]}, Simp[(-a)*((e + d*q)/(c*d^2 - a*e^2)) Int[1/Sqrt[a + c*x^4], x], x] + Simp[a*d*((e + d*q)/(c*d^2 - a*e^2)) Int[(1 + q*x^2)/((d + e*x^2)*Sqrt[a + c*x^4]), x], x]] /; FreeQ[{a, c, d, e}, x] && PosQ[c/a] && NeQ[c*d^2 - a*e^2, 0]
1658. Int[(x_)^2/(((d_) + (e_.)*(x_)^2)*Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]), x_Symbol] :> Simp[1/e Int[1/Sqrt[a + b*x^2 + c*x^4], x], x] - Simp[d/e Int[1/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0]
1659. Int[(x_)^2/(((d_) + (e_.)*(x_)^2)*Sqrt[(a_) + (c_.)*(x_)^4]), x_Symbol] :> Simp[1/e Int[1/Sqrt[a + c*x^4], x], x] - Simp[d/e Int[1/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] /; FreeQ[{a, c, d, e}, x]
1660. Int[(x_)^4/(((d_) + (e_.)*(x_)^2)*Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]), x_Symbol] :> With[{q = Rt[c/a, 2]}, Simp[-(e*q)^(-1) Int[(1 - q*x^2)/Sqrt[a + b*x^2 + c*x^4], x], x] + Simp[d^2/(e*(e - d*q)) Int[(1 + q*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] /; EqQ[2*c*d - a*e*q, 0] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && PosQ[c/a] && NeQ[c*d^2 - a*e^2, 0]
1661. Int[(x_)^4/(((d_) + (e_.)*(x_)^2)*Sqrt[(a_) + (c_.)*(x_)^4]), x_Symbol] :> With[{q = Rt[c/a, 2]}, Simp[-(e*q)^(-1) Int[(1 - q*x^2)/Sqrt[a + c*x^4], x], x] + Simp[d^2/(e*(e - d*q)) Int[(1 + q*x^2)/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] /; EqQ[2*c*d - a*e*q, 0] /; FreeQ[{a, c, d, e}, x] && PosQ[c/a] && NeQ[c*d^2 - a*e^2, 0]
1662. Int[(x_)^4/(((d_) + (e_.)*(x_)^2)*Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]), x_Symbol] :> With[{q = Rt[c/a, 2]}, Simp[-(2*c*d - a*e*q)/(c*e*(e - d*q)) Int[1/Sqrt[a + b*x^2 + c*x^4], x], x] + (-Simp[1/(e*q) Int[(1 - q*x^2)/Sqrt[a + b*x^2 + c*x^4], x], x] + Simp[d^2/(e*(e - d*q)) Int[(1 + q*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x])] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && PosQ[c/a] && NeQ

$[c*d^2 - a*e^2, 0]$

1663. $\text{Int}[(x_)^4/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[-(2*c*d - a*e*q)/(c*e*(e - d*q)) \text{Int}[1/\text{Sqrt}[a + c*x^4], x], x] + (-\text{Simp}[1/(e*q) \text{Int}[(1 - q*x^2)/\text{Sqrt}[a + c*x^4], x], x] + \text{Simp}[d^2/(e*(e - d*q)) \text{Int}[(1 + q*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x))] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{PosQ}[c/a] \& \& \text{NeQ}[c*d^2 - a*e^2, 0]$
1664. $\text{Int}[(x_)^4/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[d^2/e^2 \text{Int}[1/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] - \text{Simp}[1/e^2 \text{Int}[(d - e*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
1665. $\text{Int}[(x_)^4/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[d^2/e^2 \text{Int}[1/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] - \text{Simp}[1/e^2 \text{Int}[(d - e*x^2)/\text{Sqrt}[a + c*x^4], x], x] /; \text{FreeQ}[\{a, c, d, e\}, x]$
1666. $\text{Int}[(x_)^(m_)/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[x^(m - 5)*(\text{Sqrt}[a + b*x^2 + c*x^4]/(c*e*(m - 3))), x] - \text{Simp}[1/(c*e*(m - 3)) \text{Int}[(x^(m - 6)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]))*\text{Simp}[a*d*(m - 5) + (a*e*(m - 5) + b*d*(m - 4))*x^2 + (b*e*(m - 4) + c*d*(m - 3))*x^4, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[m/2, 2]$
1667. $\text{Int}[(x_)^(m_)/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[x^(m - 5)*(\text{Sqrt}[a + c*x^4]/(c*e*(m - 3))), x] - \text{Simp}[1/(c*e*(m - 3)) \text{Int}[(x^(m - 6)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]))*\text{Simp}[a*d*(m - 5) + a*e*(m - 5)*x^2 + c*d*(m - 3)*x^4, x], x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{IGtQ}[m/2, 2]$
1668. $\text{Int}[(x_)^(m_)/(((d_) + (e_)*(x_)^2)*\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[x^(m + 1)*(\text{Sqrt}[a + b*x^2 + c*x^4]/(a*d*(m + 1))), x] - \text{Simp}[1/(a*d*(m + 1)) \text{Int}[(x^(m + 2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]))*\text{Simp}[a*e*(m + 1) + b*d*(m + 2) + (b*e*(m + 2) + c*d*(m + 3))*x^2 + c*e*(m + 3)*x^4, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e\}$

- , x] && NeQ[b^2 - 4*a*c, 0] && ILtQ[m/2, 0]
1669. Int[(x_)^(m_)/(((d_) + (e_.)*(x_)^2)*Sqrt[(a_) + (c_.)*(x_)^4]), x_Symbol] := Simp[x^(m + 1)*(Sqrt[a + c*x^4]/(a*d*(m + 1))), x] - Simp[1/(a*d*(m + 1)) Int[(x^(m + 2))/((d + e*x^2)*Sqrt[a + c*x^4])*Simp[a*e*(m + 1) + c*d*(m + 3)*x^2 + c*e*(m + 3)*x^4, x], x], x] /; FreeQ[{a, c, d, e}, x] && ILtQ[m/2, 0]
1670. Int[(x_)^(m_)/(Sqrt[(d_) + (e_.)*(x_)^2]*Sqrt[(a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4]), x_Symbol] := Simp[x^3*Sqrt[e + d/x^2]*(Sqrt[c + b/x^2 + a/x^4]/(Sqrt[d + e*x^2]*Sqrt[a + b*x^2 + c*x^4])) Int[x^(m - 3)/(Sqrt[e + d/x^2]*Sqrt[c + b/x^2 + a/x^4]), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[m/2]
1671. Int[(x_)^(m_)/(Sqrt[(d_) + (e_.)*(x_)^2]*Sqrt[(a_) + (c_.)*(x_)^4]), x_Symbol] := Simp[x^3*Sqrt[e + d/x^2]*(Sqrt[c + a/x^4]/(Sqrt[d + e*x^2]*Sqrt[a + c*x^4])) Int[x^(m - 3)/(Sqrt[e + d/x^2]*Sqrt[c + a/x^4]), x], x] /; FreeQ[{a, c, d, e}, x] && IntegerQ[m/2]
1672. Int[(x_)^(m_)*((d_) + (e_.)*(x_)^2)^(q_)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] := With[{f = Coeff[PolynomialRemainder[x^m*(d + e*x^2)^q, a + b*x^2 + c*x^4, x], x, 0], g = Coeff[PolynomialRemainder[x^m*(d + e*x^2)^q, a + b*x^2 + c*x^4, x], x, 2]}, Simp[x*(a + b*x^2 + c*x^4)^(p + 1)*((a*b*g - f*(b^2 - 2*a*c) - c*(b*f - 2*a*g)*x^2)/(2*a*(p + 1)*(b^2 - 4*a*c))), x] + Simp[1/(2*a*(p + 1)*(b^2 - 4*a*c)) Int[(a + b*x^2 + c*x^4)^(p + 1)*Simp[ExpandToSum[2*a*(p + 1)*(b^2 - 4*a*c)*PolynomialQuotient[x^m*(d + e*x^2)^q, a + b*x^2 + c*x^4, x] + b^2*f*(2*p + 3) - 2*a*c*f*(4*p + 5) - a*b*g + c*(4*p + 7)*(b*f - 2*a*g)*x^2, x], x], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] && IGtQ[q, 1] && IGtQ[m/2, 0]
1673. Int[(x_)^(m_)*((d_) + (e_.)*(x_)^2)^(q_)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbol] := With[{f = Coeff[PolynomialRemainder[x^m*(d + e*x^2)^q, a + b*x^2 + c*x^4, x], x, 0], g = Coeff[PolynomialRemainder[x^m*(d + e*x^2)^q, a + b*x^2 + c*x^4, x], x, 2]}, Simp[x*(a + b*x^2 + c*x^4)^(p + 1)*((a*b*g - f*(b^2 - 2*a*c) - c*(b*f - 2*a*g)*x^2)/(2*a*(p + 1)*(b^2 - 4*a*c))), x] + Simp[1/(2*a*(p + 1)*(b^2 - 4*a*c)) Int

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t[x^m*(a + b*x^2 + c*x^4)^(p + 1)*Simp[ExpandToSum[(2*a*(p + 1)*(b^2 -
4*a*c)*PolynomialQuotient[x^m*(d + e*x^2)^q, a + b*x^2 + c*x^4, x])/x
^m + (b^2*f*(2*p + 3) - 2*a*c*f*(4*p + 5) - a*b*g)/x^m + c*(4*p + 7)*(
b*f - 2*a*g)*x^(2 - m), x], x], x], x]] /; FreeQ[{a, b, c, d, e}, x] &
& NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] && IGtQ[q, 1] && ILtQ[m/2, 0]

1674. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^2)^(q_)*((a_) + (b_)*(x_)^
2 + (c_)*(x_)^4)^(p_), x_Symbol] := Int[ExpandIntegrand[(f*x)^m*(d +
e*x^2)^q*(a + b*x^2 + c*x^4)^p, x], x] /; FreeQ[{a, b, c, d, e, f, m,
p, q}, x] && NeQ[b^2 - 4*a*c, 0] && (IGtQ[p, 0] || IGtQ[q, 0] || Inte
gersQ[m, q])

1675. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^2)^(q_)*((a_) + (c_)*(x_)^
4)^(p_), x_Symbol] := Int[ExpandIntegrand[(f*x)^m*(d + e*x^2)^q*(a +
c*x^4)^p, x], x] /; FreeQ[{a, c, d, e, f, m, p, q}, x] && (IGtQ[p, 0]
|| IGtQ[q, 0] || IntegersQ[m, q])

1676. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^2)^(q_)*((a_) + (c_)*(x_)^4
)^(p_), x_Symbol] := Simp[(f*x)^m/x^m Int[ExpandIntegrand[x^m*(a + c
*x^4)^p, (d/(d^2 - e^2*x^4) - e*(x^2/(d^2 - e^2*x^4)))^(-q), x], x], x
] /; FreeQ[{a, c, d, e, f, m, p}, x] && !IntegerQ[p] && ILtQ[q, 0]

1677. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^2)^(q_)*((a_) + (b_)*(x_)^
2 + (c_)*(x_)^4)^(p_), x_Symbol] := Unintegrable[(f*x)^m*(d + e*x^2)
^q*(a + b*x^2 + c*x^4)^p, x] /; FreeQ[{a, b, c, d, e, f, m, p, q}, x]

1678. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^2)^(q_)*((a_) + (c_)*(x_)^
4)^(p_), x_Symbol] := Unintegrable[(f*x)^m*(d + e*x^2)^q*(a + c*x^4)^
p, x] /; FreeQ[{a, c, d, e, f, m, p, q}, x]

1679. Int[((a_) + (c_)*(x_)^(n2_)) + (b_)*(x_)^(n_)]^(p_), x_Symbol] := In
t[x^(2*n*p)*(c + b/x^n + a/x^(2*n))^p, x] /; FreeQ[{a, b, c}, x] && Eq
Q[n2, 2*n] && LtQ[n, 0] && IntegerQ[p]

1680. Int[((a_) + (c_)*(x_)^(n2_)) + (b_)*(x_)^(n_)]^(p_), x_Symbol] := Wi
th[{k = Denominator[n]}, Simp[k Subst[Int[x^(k - 1)*(a + b*x^(k*n) +

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c*x^(2*k*n))^p, x], x, x^(1/k)], x]] /; FreeQ[{a, b, c, p}, x] && EqQ
[n2, 2*n] && FractionQ[n]

1681. Int[((a_) + (c_)*(x_)^(n2_)) + (b_)*(x_)^(n_)]^(p_), x_Symbol] := -S
ubst[Int[(a + b/x^n + c/x^(2*n))^p/x^2, x], x, 1/x] /; FreeQ[{a, b, c,
p}, x] && EqQ[n2, 2*n] && ILtQ[n, 0]

1682. Int[((a_) + (c_)*(x_)^(n2_)) + (b_)*(x_)^(n_)]^(p_), x_Symbol] := In
t[ExpandIntegrand[(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c,
n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[p, 0]

1683. Int[((a_) + (c_)*(x_)^(n2_)) + (b_)*(x_)^(n_)]^(p_), x_Symbol] := Si
mp[(-x)*(b^2 - 2*a*c + b*c*x^n)*((a + b*x^n + c*x^(2*n))^(p + 1)/(a*n*
(p + 1)*(b^2 - 4*a*c))), x] + Simp[1/(a*n*(p + 1)*(b^2 - 4*a*c)) Int
[(b^2 - 2*a*c + n*(p + 1)*(b^2 - 4*a*c) + b*c*(n*(2*p + 3) + 1)*x^n)*
(a + b*x^n + c*x^(2*n))^(p + 1), x], x] /; FreeQ[{a, b, c, n}, x] && Eq
Q[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p, -1]

1684. Int[((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Wit
h[{q = Rt[a/c, 2]}, With[{r = Rt[2*q - b/c, 2]}, Simp[1/(2*c*q*r) In
t[(r - x^(n/2))/(q - r*x^(n/2) + x^n), x], x] + Simp[1/(2*c*q*r) Int
[(r + x^(n/2))/(q + r*x^(n/2) + x^n), x], x]]] /; FreeQ[{a, b, c}, x]
&& EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n/2, 0] && NegQ[b^2 - 4
*a*c]

1685. Int[((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Wit
h[{q = Rt[b^2 - 4*a*c, 2]}, Simp[c/q Int[1/(b/2 - q/2 + c*x^n), x],
x] - Simp[c/q Int[1/(b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b, c},
x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0]

1686. Int[((a_) + (c_)*(x_)^(n2_)) + (b_)*(x_)^(n_)]^(p_), x_Symbol] := Si
mp[a^IntPart[p]*((a + b*x^n + c*x^(2*n))^FracPart[p]/((1 + 2*c*(x^n/(b
+ Rt[b^2 - 4*a*c, 2])))^FracPart[p]*(1 + 2*c*(x^n/(b - Rt[b^2 - 4*a*c
, 2])))^FracPart[p])) Int[(1 + 2*c*(x^n/(b + Sqrt[b^2 - 4*a*c])))^p*
(1 + 2*c*(x^n/(b - Sqrt[b^2 - 4*a*c])))^p, x], x] /; FreeQ[{a, b, c, n
, p}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && !IntegerQ[p]

```

1687. `Int[((a_) + (c_.)*(u_)^(n2_.) + (b_.)*(u_)^(n_))^(p_), x_Symbol] := Simp[1/Coefficient[u, x, 1] Subst[Int[(a + b*x^n + c*x^(2*n))^p, x], u], x] /; FreeQ[{a, b, c, n, p}, x] && EqQ[n2, 2*n] && LinearQ[u, x] && NeQ[u, x]`
1688. `Int[((a_) + (c_.)*(x_)^(n_.) + (b_.)*(x_)^(mn_))^(p_), x_Symbol] := Int[(b + a*x^n + c*x^(2*n))^p/x^(n*p), x] /; FreeQ[{a, b, c, n}, x] && EqQ[mn, -n] && IntegerQ[p] && PosQ[n]`
1689. `Int[((a_) + (c_.)*(x_)^(n_.) + (b_.)*(x_)^(mn_))^(p_), x_Symbol] := Simp[x^(n*FracPart[p])*((a + b/x^n + c*x^n)^FracPart[p]/(b + a*x^n + c*x^(2*n))^FracPart[p]) Int[(b + a*x^n + c*x^(2*n))^p/x^(n*p), x], x] /; FreeQ[{a, b, c, n, p}, x] && EqQ[mn, -n] && !IntegerQ[p] && PosQ[n]`
1690. `Int[(x_)^(m_.)*((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p_.), x_Symbol] := Simp[1/n Subst[Int[(a + b*x + c*x^2)^p, x], x, x^n], x] /; FreeQ[{a, b, c, m, n, p}, x] && EqQ[n2, 2*n] && EqQ[Simplify[m - n + 1], 0]`
1691. `Int[((d_.)*(x_))^(m_.)*((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p_.), x_Symbol] := Int[ExpandIntegrand[(d*x)^m*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[n2, 2*n] && IGtQ[p, 0] && !IntegerQ[Simplify[(m + 1)/n]]`
1692. `Int[(x_)^(m_.)*((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Int[x^(m + 2*n*p)*(c + b/x^n + a/x^(2*n))^p, x] /; FreeQ[{a, b, c, m, n}, x] && EqQ[n2, 2*n] && ILtQ[p, 0] && NegQ[n]`
1693. `Int[(x_)^(m_.)*((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p_.), x_Symbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*x + c*x^2)^p, x], x, x^n], x] /; FreeQ[{a, b, c, m, n, p}, x] && EqQ[n2, 2*n] && IntegerQ[Simplify[(m + 1)/n]]`
1694. `Int[((d_.)*(x_))^(m_.)*((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p_.), x_Symbol] := Simp[d^IntPart[m]*((d*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, m, n},`

- $p\}, x] \ \&\& \text{EqQ}[n2, 2*n] \ \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
1695. $\text{Int}[(x_)^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{k = \text{GCD}[m + 1, n]\}, \text{Simp}[1/k \ \text{Subst}[\text{Int}[x^{((m + 1)/k - 1)*(a + b*x^{(n/k)} + c*x^{(2*(n/k))})^p}, x], x, x^k], x] \ /; k \neq 1] \ /; \text{FreeQ}[\{a, b, c, p\}, x] \ \&\& \text{EqQ}[n2, 2*n] \ \&\& \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \text{IGtQ}[n, 0] \ \&\& \text{IntegerQ}[m]$
1696. $\text{Int}[((d_.)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[k/d \ \text{Subst}[\text{Int}[x^{(k*(m + 1) - 1)*(a + b*(x^{(k*n)}/d^n) + c*(x^{(2*k*n)}/d^{(2*n))})^p}, x], x, (d*x)^{(1/k)}], x] \ /; \text{FreeQ}[\{a, b, c, d, p\}, x] \ \&\& \text{EqQ}[n2, 2*n] \ \&\& \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \text{IGtQ}[n, 0] \ \&\& \text{FractionQ}[m] \ \&\& \text{IntegerQ}[p]$
1697. $\text{Int}[((d_.)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[d^{(n - 1)}*(d*x)^{(m - n + 1)}*(a + b*x^n + c*x^{(2*n)})^p*((b*n*p + c*(m + n*(2*p - 1) + 1)*x^n)/(c*(m + 2*n*p + 1)*(m + n*(2*p - 1) + 1))), x] - \text{Simp}[n*p*(d^n/(c*(m + 2*n*p + 1)*(m + n*(2*p - 1) + 1))) \ \text{Int}[(d*x)^{(m - n)}*(a + b*x^n + c*x^{(2*n)})^{(p - 1)}*\text{Simp}[a*b*(m - n + 1) - (2*a*c*(m + n*(2*p - 1) + 1) - b^2*(m + n*(p - 1) + 1)]*x^n, x], x] \ /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \text{EqQ}[n2, 2*n] \ \&\& \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \text{IGtQ}[n, 0] \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{GtQ}[m, n - 1] \ \&\& \text{NeQ}[m + 2*n*p + 1, 0] \ \&\& \text{NeQ}[m + n*(2*p - 1) + 1, 0]$
1698. $\text{Int}[((d_.)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(d*x)^{(m + 1)}*((a + b*x^n + c*x^{(2*n)})^p/(d*(m + 1))), x] - \text{Simp}[n*(p/(d^n*(m + 1))) \ \text{Int}[(d*x)^{(m + n)}*(b + 2*c*x^n)*(a + b*x^n + c*x^{(2*n)})^{(p - 1)}, x], x] \ /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \text{EqQ}[n2, 2*n] \ \&\& \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \text{IGtQ}[n, 0] \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{LtQ}[m, -1]$
1699. $\text{Int}[((d_.)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(d*x)^{(m + 1)}*((a + b*x^n + c*x^{(2*n)})^p/(d*(m + 2*n*p + 1))), x] + \text{Simp}[n*(p/(m + 2*n*p + 1)) \ \text{Int}[(d*x)^m*(2*a + b*x^n)*(a + b*x^n + c*x^{(2*n)})^{(p - 1)}, x], x] \ /; \text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \text{EqQ}[n2, 2*n] \ \&\& \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \text{IGtQ}[n, 0] \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{NeQ}[m + 2*n*p + 1, 0]$

1700. $\text{Int}[(d \cdot x)^m \cdot ((a + c \cdot x^{n_2}) + (b \cdot x^n))^p, x_Symbol] := \text{Simp}[d^{n-1} \cdot (d \cdot x)^{m-n+1} \cdot (b + 2 \cdot c \cdot x^n) \cdot ((a + b \cdot x^n + c \cdot x^{2n})^{p+1} / (n \cdot (p+1) \cdot (b^2 - 4 \cdot a \cdot c))), x] - \text{Simp}[d^n / (n \cdot (p+1) \cdot (b^2 - 4 \cdot a \cdot c)) \cdot \text{Int}[(d \cdot x)^{m-n} \cdot (b \cdot (m-n+1) + 2 \cdot c \cdot (m+2 \cdot n \cdot (p+1) + 1) \cdot x^n) \cdot (a + b \cdot x^n + c \cdot x^{2n})^{p+1}, x], x] /;$ FreeQ[{a, b, c, d}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && ILtQ[p, -1] && GtQ[m, n - 1] && LeQ[m, 2*n - 1]
1701. $\text{Int}[(d \cdot x)^m \cdot ((a + c \cdot x^{n_2}) + (b \cdot x^n))^p, x_Symbol] := \text{Simp}[(-d^{2n-1}) \cdot (d \cdot x)^{m-2n+1} \cdot (2 \cdot a + b \cdot x^n) \cdot ((a + b \cdot x^n + c \cdot x^{2n})^{p+1} / (n \cdot (p+1) \cdot (b^2 - 4 \cdot a \cdot c))), x] + \text{Simp}[d^{2n} / (n \cdot (p+1) \cdot (b^2 - 4 \cdot a \cdot c)) \cdot \text{Int}[(d \cdot x)^{m-2n} \cdot (2 \cdot a \cdot (m-2n+1) + b \cdot (m+n \cdot (2p+1) + 1) \cdot x^n) \cdot (a + b \cdot x^n + c \cdot x^{2n})^{p+1}, x], x] /;$ FreeQ[{a, b, c, d}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && ILtQ[p, -1] && GtQ[m, 2*n - 1]
1702. $\text{Int}[(d \cdot x)^m \cdot ((a + c \cdot x^{n_2}) + (b \cdot x^n))^p, x_Symbol] := \text{Simp}[(-d \cdot x)^{m+1} \cdot (b^2 - 2 \cdot a \cdot c + b \cdot c \cdot x^n) \cdot ((a + b \cdot x^n + c \cdot x^{2n})^{p+1} / (a \cdot d \cdot n \cdot (p+1) \cdot (b^2 - 4 \cdot a \cdot c))), x] + \text{Simp}[1 / (a \cdot n \cdot (p+1) \cdot (b^2 - 4 \cdot a \cdot c)) \cdot \text{Int}[(d \cdot x)^m \cdot (a + b \cdot x^n + c \cdot x^{2n})^{p+1} \cdot \text{Simp}[b^2 \cdot (m+n \cdot (p+1) + 1) - 2 \cdot a \cdot c \cdot (m+2 \cdot n \cdot (p+1) + 1) + b \cdot c \cdot (m+n \cdot (2p+3) + 1) \cdot x^n, x], x], x] /;$ FreeQ[{a, b, c, d, m}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && ILtQ[p, -1]
1703. $\text{Int}[(d \cdot x)^m \cdot ((a + c \cdot x^{n_2}) + (b \cdot x^n))^p, x_Symbol] := \text{Simp}[d^{2n-1} \cdot (d \cdot x)^{m-2n+1} \cdot ((a + b \cdot x^n + c \cdot x^{2n})^{p+1} / (c \cdot (m+2 \cdot n \cdot p + 1))), x] - \text{Simp}[d^{2n} / (c \cdot (m+2 \cdot n \cdot p + 1)) \cdot \text{Int}[(d \cdot x)^{m-2n} \cdot \text{Simp}[a \cdot (m-2n+1) + b \cdot (m+n \cdot (p-1) + 1) \cdot x^n, x] \cdot (a + b \cdot x^n + c \cdot x^{2n})^p, x], x] /;$ FreeQ[{a, b, c, d, p}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && GtQ[m, 2*n - 1] && NeQ[m + 2*n*p + 1, 0] && IntegerQ[p]
1704. $\text{Int}[(d \cdot x)^m \cdot ((a + c \cdot x^{n_2}) + (b \cdot x^n))^p, x_Symbol] := \text{Simp}[(d \cdot x)^{m+1} \cdot ((a + b \cdot x^n + c \cdot x^{2n})^{p+1} / (a \cdot d \cdot (m+1))), x] - \text{Simp}[1 / (a \cdot d \cdot n \cdot (m+1)) \cdot \text{Int}[(d \cdot x)^{m+n} \cdot (b \cdot (m+n \cdot (p+1) + 1) + c \cdot (m+2 \cdot n \cdot (p+1) + 1) \cdot x^n) \cdot (a + b \cdot x^n + c \cdot x^{2n})^p, x], x] /;$

- $p, x], x] /;$ FreeQ[{a, b, c, d, p}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && LtQ[m, -1] && IntegerQ[p]
1705. Int[((d_.)*(x_))^(m_)/((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_)), x_Symbol]
 :> Simp[(d*x)^(m + 1)/(a*d*(m + 1)), x] - Simp[1/(a*d^n) Int
 [(d*x)^(m + n)*((b + c*x^n)/(a + b*x^n + c*x^(2*n))), x], x] /; FreeQ[
 {a, b, c, d}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0]
 && LtQ[m, -1]
1706. Int[(x_)^(m_)/((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_)), x_Symbol]
 :> Int[PolynomialDivide[x^m, a + b*x^n + c*x^(2*n), x], x] /; FreeQ[{a
 , b, c}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && IG
 tQ[m, 3*n - 1]
1707. Int[((d_.)*(x_))^(m_)/((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_)), x_Symbol]
 :> Simp[d^(2*n - 1)*((d*x)^(m - 2*n + 1)/(c*(m - 2*n + 1))), x
] - Simp[d^(2*n)/c Int[(d*x)^(m - 2*n)*((a + b*x^n)/(a + b*x^n + c*x
 ^ (2*n))), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[n2, 2*n] && NeQ[b^2
 - 4*a*c, 0] && IGtQ[n, 0] && GtQ[m, 2*n - 1]
1708. Int[(x_)^(m_)/((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_)), x_Symbol]
 :> With[{q = Rt[a/c, 2]}, With[{r = Rt[2*q - b/c, 2]}, -Simp[1/(2*c*r
) Int[x^(m - 3*(n/2))*((q - r*x^(n/2))/(q - r*x^(n/2) + x^n)), x], x
] + Simp[1/(2*c*r) Int[x^(m - 3*(n/2))*((q + r*x^(n/2))/(q + r*x^(n/
 2) + x^n)), x], x]]] /; FreeQ[{a, b, c}, x] && EqQ[n2, 2*n] && NeQ[b^2
 - 4*a*c, 0] && IGtQ[n/2, 0] && IGtQ[m, 0] && GeQ[m, 3*(n/2)] && LtQ[m
 , 2*n] && NegQ[b^2 - 4*a*c]
1709. Int[(x_)^(m_)/((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_)), x_Symbol]
 :> With[{q = Rt[a/c, 2]}, With[{r = Rt[2*q - b/c, 2]}, Simp[1/(2*c*r)
 Int[x^(m - n/2)/(q - r*x^(n/2) + x^n), x], x] - Simp[1/(2*c*r) In
 t[x^(m - n/2)/(q + r*x^(n/2) + x^n), x], x]]] /; FreeQ[{a, b, c}, x] &&
 EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n/2, 0] && IGtQ[m, 0] &&
 GeQ[m, n/2] && LtQ[m, 3*(n/2)] && NegQ[b^2 - 4*a*c]
1710. Int[((d_.)*(x_))^(m_)/((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_)), x_Symbol]
 :> With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[(d^n/2)*(b/q + 1) Int

- $$\left[\frac{(d*x)^{(m-n)}}{(b/2 + q/2 + c*x^n)}, x \right], x] - \text{Simp}[(d^n/2)*(b/q - 1) \text{Int}[(d*x)^{(m-n)}/(b/2 - q/2 + c*x^n), x], x]] /; \text{FreeQ}\{a, b, c, d, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GeQ}[m, n]$$
1711. $\text{Int}[\frac{(d_*)*(x_*)^{(m_*)}}{(a_*) + (c_*)*(x_*)^{(n2_*)} + (b_*)*(x_*)^{(n_*)}}, x_Symbol] :> \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[c/q \text{Int}[(d*x)^m/(b/2 - q/2 + c*x^n), x], x] - \text{Simp}[c/q \text{Int}[(d*x)^m/(b/2 + q/2 + c*x^n), x], x]] /; \text{FreeQ}\{a, b, c, d, m\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0]$
1712. $\text{Int}[(x_*)^{(m_*)}*((a_*) + (c_*)*(x_*)^{(n2_*)} + (b_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] :> -\text{Subst}[\text{Int}[(a + b/x^n + c/x^{(2*n)})^p/x^{(m+2)}, x], x, 1/x] /; \text{FreeQ}\{a, b, c, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{IntegerQ}[m]$
1713. $\text{Int}[\frac{(d_*)*(x_*)^{(m_*)}*((a_*) + (c_*)*(x_*)^{(n2_*)} + (b_*)*(x_*)^{(n_*)})^{(p_*)}}{d}, x_Symbol] :> \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[-k/d \text{Subst}[\text{Int}[(a + b/(d^n*x^{(k*n)}) + c/(d^{(2*n)}*x^{(2*k*n)})]^p/x^{(k*(m+1)+1)}, x], x, 1/(d*x)^{(1/k)}], x]] /; \text{FreeQ}\{a, b, c, d, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{FractionQ}[m]$
1714. $\text{Int}[\frac{(d_*)*(x_*)^{(m_*)}*((a_*) + (c_*)*(x_*)^{(n2_*)} + (b_*)*(x_*)^{(n_*)})^{(p_*)}}{d^{\text{IntPart}[m]}}, x_Symbol] :> \text{Simp}[(-d^{\text{IntPart}[m]})*(d*x)^{\text{FracPart}[m]}*(x^{-1})^{\text{FracPart}[m]} \text{Subst}[\text{Int}[(a + b/x^n + c/x^{(2*n)})^p/x^{(m+2)}, x], x, 1/x], x] /; \text{FreeQ}\{a, b, c, d, m, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{!RationalQ}[m]$
1715. $\text{Int}[(x_*)^{(m_*)}*((a_*) + (c_*)*(x_*)^{(n2_*)} + (b_*)*(x_*)^{(n_*)})^{(p_*)}, x_Symbol] :> \text{With}\{k = \text{Denominator}[n]\}, \text{Simp}[k \text{Subst}[\text{Int}[x^{(k*(m+1)-1)}*(a + b*x^{(k*n)} + c*x^{(2*k*n)})^p, x], x, x^{(1/k)}], x]] /; \text{FreeQ}\{a, b, c, m, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{FractionQ}[n]$
1716. $\text{Int}[\frac{(d_*)*(x_*)^{(m_*)}*((a_*) + (c_*)*(x_*)^{(n2_*)} + (b_*)*(x_*)^{(n_*)})^{(p_*)}}{d^{\text{IntPart}[m]}}, x_Symbol] :> \text{Simp}[d^{\text{IntPart}[m]}*((d*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{FractionQ}[n]$

1717. $\text{Int}[(x_)^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/(m + 1) \text{ Subst}[\text{Int}[(a + b*x^{\text{Simplify}[n/(m + 1)] + c*x^{\text{Simplify}[2*(n/(m + 1))]}]^p, x], x, x^{(m + 1)}], x] /; \text{FreeQ}\{a, b, c, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[\text{Simplify}[n/(m + 1)]] \&\& !\text{IntegerQ}[n]$
1718. $\text{Int}[((d_)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[d^{\text{IntPart}[m]}*((d*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[\text{Simplify}[n/(m + 1)]] \&\& !\text{IntegerQ}[n]$
1719. $\text{Int}[((d_.)*(x_))^{(m_.)}/((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)}), x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*(c/q) \text{Int}[(d*x)^m/(b - q + 2*c*x^n), x], x] - \text{Simp}[2*(c/q) \text{Int}[(d*x)^m/(b + q + 2*c*x^n), x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
1720. $\text{Int}[((d_.)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(-(d*x)^{(m + 1)}*(b^2 - 2*a*c + b*c*x^n)*((a + b*x^n + c*x^{(2*n)})^{(p + 1)}/(a*d*n*(p + 1)*(b^2 - 4*a*c))), x] + \text{Simp}[1/(a*n*(p + 1)*(b^2 - 4*a*c)) \text{Int}[(d*x)^m*(a + b*x^n + c*x^{(2*n)})^{(p + 1)}*\text{Simp}[b^2*(n*(p + 1) + m + 1) - 2*a*c*(m + 2*n*(p + 1) + 1) + b*c*(2*n*p + 3*n + m + 1)*x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[p + 1, 0]$
1721. $\text{Int}[((d_.)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]}*((a + b*x^n + c*x^{(2*n)})^{\text{FracPart}[p]}/((1 + 2*c*(x^n/(b + \text{Rt}[b^2 - 4*a*c, 2])))^{\text{FracPart}[p]}*(1 + 2*c*(x^n/(b - \text{Rt}[b^2 - 4*a*c, 2])))^{\text{FracPart}[p]})) \text{Int}[(d*x)^m*(1 + 2*c*(x^n/(b + \text{Sqrt}[b^2 - 4*a*c])))^p*(1 + 2*c*(x^n/(b - \text{Sqrt}[b^2 - 4*a*c])))^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n]$
1722. $\text{Int}[(x_)^{(m_.)}*((a_) + (c_.)*(x_)^{(n_.)} + (b_.)*(x_)^{(mn)})^{(p_.)}, x_Symbol] \rightarrow \text{Int}[x^{(m - n*p)}*(b + a*x^n + c*x^{(2*n)})^p, x] /; \text{FreeQ}\{a, b, c, m, n\}, x] \&\& \text{EqQ}[mn, -n] \&\& \text{IntegerQ}[p] \&\& \text{PosQ}[n]$

1723. $\text{Int}[(x_)^{(m_.)} * ((a_) + (c_.) * (x_)^{(n_.)} + (b_.) * (x_)^{(mn_)})^{(p_.)}, x_Symbol] :> \text{Simp}[x^{(n * \text{FracPart}[p])} * ((a + b/x^n + c*x^n)^{\text{FracPart}[p]} / (b + a*x^n + c*x^{(2*n)})^{\text{FracPart}[p]}) \text{Int}[x^{(m - n*p)} * (b + a*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}[\{a, b, c, m, n, p\}, x] \&\& \text{EqQ}[mn, -n] \&\& !\text{IntegerQ}[p] \&\& \text{PosQ}[n]$
1724. $\text{Int}[(d_.) * (x_)^{(m_.)} * ((a_) + (c_.) * (x_)^{(n_.)} + (b_.) * (x_)^{(mn_)})^{(p_.)}, x_Symbol] :> \text{Simp}[d^{\text{IntPart}[m]} * ((d*x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m * (a + b/x^n + c*x^n)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{EqQ}[mn, -n]$
1725. $\text{Int}[(u_)^{(m_.)} * ((a_.) + (c_.) * (v_)^{(n2_.)} + (b_.) * (v_)^{(n)})^{(p_.)}, x_Symbol] :> \text{Simp}[u^m / (\text{Coefficient}[v, x, 1] * v^m) \text{Subst}[\text{Int}[x^m * (a + b*x^n + c*x^{(2*n)})^p, x], x, v], x] /; \text{FreeQ}[\{a, b, c, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{LinearPairQ}[u, v, x]$
1726. $\text{Int}[(a_.) + (c_.) * (v_)^{(n2_.)} + (b_.) * (v_)^{(n)})^{(p_.)} * (x_)^{(m_.)}, x_Symbol] :> \text{Simp}[1 / \text{Coefficient}[v, x, 1]^{(m + 1)} \text{Subst}[\text{Int}[\text{SimplifyIntegrand}[(x - \text{Coefficient}[v, x, 0])^m * (a + b*x^n + c*x^{(2*n)})^p, x], x], x, v], x] /; \text{FreeQ}[\{a, b, c, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{LinearQ}[v, x] \&\& \text{IntegerQ}[m] \&\& \text{NeQ}[v, x]$
1727. $\text{Int}[(a_) + (c_.) * (x_)^{(n2_.)} + (b_.) * (x_)^{(n)})^{(p_.)} * ((d_) + (e_.) * (x_)^{(n)})^{(q_.)}, x_Symbol] :> \text{Int}[x^{(n * (2*p + q))} * (e + d/x^n)^q * (c + b/x^n + a/x^{(2*n)})^p, x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IntegersQ}[p, q] \&\& \text{NegQ}[n]$
1728. $\text{Int}[(a_) + (c_.) * (x_)^{(n2_.)})^{(p_.)} * ((d_) + (e_.) * (x_)^{(n)})^{(q_.)}, x_Symbol] :> \text{Int}[x^{(n * (2*p + q))} * (e + d/x^n)^q * (c + a/x^{(2*n)})^p, x] /; \text{FreeQ}[\{a, c, d, e, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IntegersQ}[p, q] \&\& \text{NegQ}[n]$
1729. $\text{Int}[(d_) + (e_.) * (x_)^{(n)})^{(q_.)} * ((a_.) + (b_.) * (x_)^{(n)} + (c_.) * (x_)^{(n2)})^{(p_.)}, x_Symbol] :> -\text{Subst}[\text{Int}[(d + e/x^n)^q * ((a + b/x^n + c/x^{(2*n)})^p / x^2), x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d, e, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{ILtQ}[n, 0]$

1730. $\text{Int}[\left((d_)+(e_)(x_)^{(n_)}\right)^{(q_)}\left((a_)+(c_)(x_)^{(n2_)}\right)^{(p_)}, x_Symbol] \rightarrow -\text{Subst}[\text{Int}[(d + e/x^n)^q (a + c/x^{2n})^p/x^2], x], x, 1/x] /; \text{FreeQ}\{a, c, d, e, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{ILtQ}[n, 0]$
1731. $\text{Int}[\left((a_)+(c_)(x_)^{(n2_)}+(b_)(x_)^{(n_)}\right)^{(p_)}\left((d_)+(e_)(x_)^{(n_)}\right)^{(q_)}, x_Symbol] \rightarrow \text{With}\{g = \text{Denominator}[n]\}, \text{Simp}[g \text{ Subst}[\text{Int}[x^{(g-1)}(d + e*x^{(g*n)})^q (a + b*x^{(g*n)} + c*x^{(2*g*n)})^p], x], x, x^{(1/g)}], x]] /; \text{FreeQ}\{a, b, c, d, e, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{FractionQ}[n]$
1732. $\text{Int}[\left((a_)+(c_)(x_)^{(n2_)}\right)^{(p_)}\left((d_)+(e_)(x_)^{(n_)}\right)^{(q_)}, x_Symbol] \rightarrow \text{With}\{g = \text{Denominator}[n]\}, \text{Simp}[g \text{ Subst}[\text{Int}[x^{(g-1)}(d + e*x^{(g*n)})^q (a + c*x^{(2*g*n)})^p], x], x, x^{(1/g)}], x]] /; \text{FreeQ}\{a, c, d, e, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{FractionQ}[n]$
1733. $\text{Int}[\left((d_)+(e_)(x_)^{(n_)}\right)\left((b_)(x_)^{(n_)}+(c_)(x_)^{(n2_)}\right)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(b*e - d*c)\left((b*x^n + c*x^{(2*n)})^{(p+1)}\right)/(b*c*n*(p+1)*x^{(2*n*(p+1))}), x] + \text{Simp}[e/c \text{ Int}[(b*x^n + c*x^{(2*n)})^{(p+1)}/x^n, x], x] /; \text{FreeQ}\{b, c, d, e, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[n*(2*p+1)+1, 0]$
1734. $\text{Int}[\left((d_)+(e_)(x_)^{(n_)}\right)\left((b_)(x_)^{(n_)}+(c_)(x_)^{(n2_)}\right)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[e*x^{(-n+1)}\left((b*x^n + c*x^{(2*n)})^{(p+1)}\right)/(c*(n*(2*p+1)+1)), x] /; \text{FreeQ}\{b, c, d, e, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[n*(2*p+1)+1, 0] \&\& \text{EqQ}[b*e*(n*p+1) - c*d*(n*(2*p+1)+1), 0]$
1735. $\text{Int}[\left((d_)+(e_)(x_)^{(n_)}\right)\left((b_)(x_)^{(n_)}+(c_)(x_)^{(n2_)}\right)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[e*x^{(-n+1)}\left((b*x^n + c*x^{(2*n)})^{(p+1)}\right)/(c*(n*(2*p+1)+1)), x] - \text{Simp}[(b*e*(n*p+1) - c*d*(n*(2*p+1)+1))/(c*(n*(2*p+1)+1)) \text{ Int}[(b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{b, c, d, e, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[n*(2*p+1)+1, 0] \&\& \text{NeQ}[b*e*(n*p+1) - c*d*(n*(2*p+1)+1), 0]$
1736. $\text{Int}[\left((d_)+(e_)(x_)^{(n_)}\right)^{(q_)}\left((b_)(x_)^{(n_)}+(c_)(x_)^{(n2_)}\right)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(b*x^n + c*x^{(2*n)})^{\text{FracPart}[p]}/(x^{(n*\text{FracPart}[p])})\left((b + c*x^n)^{\text{FracPart}[p]}\right) \text{ Int}[x^{(n*p)}(d + e*x^n)^q (b + c*x^n$

-)^p, x], x] /; FreeQ[{b, c, d, e, n, p, q}, x] && EqQ[n2, 2*n] && !IntegerQ[p]
1737. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x_Symbol] := Int[ExpandIntegrand[(d + e*x^n)^q*(a + b*x^n + c*x^(2*n)), x], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && IGtQ[q, 0]
1738. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (c_)*(x_)^(n2_)), x_Symbol] := Int[ExpandIntegrand[(d + e*x^n)^q*(a + c*x^(2*n)), x], x] /; FreeQ[{a, c, d, e, n}, x] && EqQ[n2, 2*n] && NeQ[c*d^2 + a*e^2, 0] && IGtQ[q, 0]
1739. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x_Symbol] := Simp[(-(c*d^2 - b*d*e + a*e^2))*x*((d + e*x^n)^(q + 1)/(d*e^2*n*(q + 1))), x] + Simp[1/(n*(q + 1)*d*e^2) Int[(d + e*x^n)^(q + 1)*Simp[c*d^2 - b*d*e + a*e^2*(n*(q + 1) + 1) + c*d*e*n*(q + 1)*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && LtQ[q, -1]
1740. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (c_)*(x_)^(n2_)), x_Symbol] := Simp[(-(c*d^2 + a*e^2))*x*((d + e*x^n)^(q + 1)/(d*e^2*n*(q + 1))), x] + Simp[1/(n*(q + 1)*d*e^2) Int[(d + e*x^n)^(q + 1)*Simp[c*d^2 + a*e^2*(n*(q + 1) + 1) + c*d*e*n*(q + 1)*x^n, x], x], x] /; FreeQ[{a, c, d, e, n}, x] && EqQ[n2, 2*n] && NeQ[c*d^2 + a*e^2, 0] && LtQ[q, -1]
1741. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x_Symbol] := Simp[c*x^(n + 1)*((d + e*x^n)^(q + 1)/(e*(n*(q + 2) + 1))), x] + Simp[1/(e*(n*(q + 2) + 1)) Int[(d + e*x^n)^q*(a*e*(n*(q + 2) + 1) - (c*d*(n + 1) - b*e*(n*(q + 2) + 1))*x^n), x], x] /; FreeQ[{a, b, c, d, e, n, q}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0]
1742. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (c_)*(x_)^(n2_)), x_Symbol] := Simp[c*x^(n + 1)*((d + e*x^n)^(q + 1)/(e*(n*(q + 2) + 1))), x] + Simp[1/(e*(n*(q + 2) + 1)) Int[(d + e*x^n)^q*(a*e*(n*(q + 2) + 1) - c*d*(n + 1)*x^n), x], x] /; FreeQ[{a, c, d, e, n, q}, x] && EqQ[n2, 2*n]

- $$] \ \&\& \ \text{NeQ}[c*d^2 + a*e^2, 0]$$
1743. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{n_-})}{(a_+ + (c_-)*(x_-)^{n2_-})}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[2*d*e, 2]\}, \text{Simp}[e^2/(2*c) \ \text{Int}[1/(d + q*x^{n/2} + e*x^n), x], x] + \text{Simp}[e^2/(2*c) \ \text{Int}[1/(d - q*x^{n/2} + e*x^n), x], x]] \ /;$

$$\text{FreeQ}\{a, c, d, e\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[c*d^2 - a*e^2, 0] \ \&\& \ \text{IGtQ}[n/2, 0] \ \&\& \ \text{PosQ}[d*e]$$
1744. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{n_-})}{(a_+ + (c_-)*(x_-)^{n2_-})}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[-2*d*e, 2]\}, \text{Simp}[d/(2*a) \ \text{Int}[(d - q*x^{n/2})/(d - q*x^{n/2} - e*x^n), x], x] + \text{Simp}[d/(2*a) \ \text{Int}[(d + q*x^{n/2})/(d + q*x^{n/2} - e*x^n), x], x]] \ /;$

$$\text{FreeQ}\{a, c, d, e\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[c*d^2 - a*e^2, 0] \ \&\& \ \text{IGtQ}[n/2, 0] \ \&\& \ \text{NegQ}[d*e]$$
1745. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{n_-})}{(a_+ + (c_-)*(x_-)^{n2_-})}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[a/c, 4]\}, \text{Simp}[1/(2*\text{Sqrt}[2]*c*q^3) \ \text{Int}[(\text{Sqrt}[2]*d*q - (d - e*q^2)*x^{n/2})/(q^2 - \text{Sqrt}[2]*q*x^{n/2} + x^n), x], x] + \text{Simp}[1/(2*\text{Sqrt}[2]*c*q^3) \ \text{Int}[(\text{Sqrt}[2]*d*q + (d - e*q^2)*x^{n/2})/(q^2 + \text{Sqrt}[2]*q*x^{n/2} + x^n), x], x]] \ /;$

$$\text{FreeQ}\{a, c, d, e\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[c*d^2 + a*e^2, 0] \ \&\& \ \text{NeQ}[c*d^2 - a*e^2, 0] \ \&\& \ \text{IGtQ}[n/2, 0] \ \&\& \ \text{PosQ}[a*c]$$
1746. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^3)}{(a_+ + (c_-)*(x_-)^6)}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 6]\}, \text{Simp}[1/(3*a*q^2) \ \text{Int}[(q^2*d - e*x)/(1 + q^2*x^2), x], x] + (\text{Simp}[1/(6*a*q^2) \ \text{Int}[(2*q^2*d - (\text{Sqrt}[3]*q^3*d - e)*x)/(1 - \text{Sqrt}[3]*q*x + q^2*x^2), x], x] + \text{Simp}[1/(6*a*q^2) \ \text{Int}[(2*q^2*d + (\text{Sqrt}[3]*q^3*d + e)*x)/(1 + \text{Sqrt}[3]*q*x + q^2*x^2), x], x]) \ /;$

$$\text{FreeQ}\{a, c, d, e\}, x] \ \&\& \ \text{NeQ}[c*d^2 + a*e^2, 0] \ \&\& \ \text{PosQ}[c/a]$$
1747. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{n_-})}{(a_+ + (c_-)*(x_-)^{n2_-})}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[-a/c, 2]\}, \text{Simp}[(d + e*q)/2 \ \text{Int}[1/(a + c*q*x^n), x], x] + \text{Simp}[(d - e*q)/2 \ \text{Int}[1/(a - c*q*x^n), x], x]] \ /;$

$$\text{FreeQ}\{a, c, d, e, n\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[c*d^2 + a*e^2, 0] \ \&\& \ \text{NegQ}[a*c] \ \&\& \ \text{IntegerQ}[n]$$
1748. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{n_-})}{(a_+ + (c_-)*(x_-)^{n2_-})}, x_Symbol] \rightarrow \text{Simp}[d \ \text{Int}[1/(a + c*x^{(2*n)}), x], x] + \text{Simp}[e \ \text{Int}[x^n/(a + c*x^{(2*n)}$

- $$\text{)), x], x] /; \text{FreeQ}\{a, c, d, e, n\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[c*d^2 + a*e^2, 0] \&\& (\text{PosQ}[a*c] \parallel \text{!IntegerQ}[n])$$
1749. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{(n_-)})}{(a_+ + (b_-)*(x_-)^{(n_-)} + (c_-)*(x_-)^{(n2_-)})}, x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[2*(d/e) - b/c, 2]\}, \text{Simp}[e/(2*c) \text{Int}[1/\text{Simp}[d/e + q*x^{(n/2)} + x^n, x], x], x] + \text{Simp}[e/(2*c) \text{Int}[1/\text{Simp}[d/e - q*x^{(n/2)} + x^n, x], x], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{IGtQ}[n/2, 0] \&\& (\text{GtQ}[2*(d/e) - b/c, 0] \parallel (\text{!LtQ}[2*(d/e) - b/c, 0] \&\& \text{EqQ}[d, e*\text{Rt}[a/c, 2]]))$
1750. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{(n_-)})}{(a_+ + (b_-)*(x_-)^{(n_-)} + (c_-)*(x_-)^{(n2_-)})}, x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(e/2 + (2*c*d - b*e)/(2*q)) \text{Int}[1/(b/2 - q/2 + c*x^n), x], x] + \text{Simp}[(e/2 - (2*c*d - b*e)/(2*q)) \text{Int}[1/(b/2 + q/2 + c*x^n), x], x]] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{IGtQ}[n/2, 0] \&\& \text{GtQ}[b^2 - 4*a*c, 0]$
1751. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{(n_-)})}{(a_+ + (b_-)*(x_-)^{(n_-)} + (c_-)*(x_-)^{(n2_-)})}, x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[-2*(d/e) - b/c, 2]\}, \text{Simp}[e/(2*c*q) \text{Int}[(q - 2*x^{(n/2)})/\text{Simp}[d/e + q*x^{(n/2)} - x^n, x], x], x] + \text{Simp}[e/(2*c*q) \text{Int}[(q + 2*x^{(n/2)})/\text{Simp}[d/e - q*x^{(n/2)} - x^n, x], x], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{IGtQ}[n/2, 0] \&\& \text{!GtQ}[b^2 - 4*a*c, 0]$
1752. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{(n_-)})}{(a_+ + (b_-)*(x_-)^{(n_-)} + (c_-)*(x_-)^{(n2_-)})}, x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(e/2 + (2*c*d - b*e)/(2*q)) \text{Int}[1/(b/2 - q/2 + c*x^n), x], x] + \text{Simp}[(e/2 - (2*c*d - b*e)/(2*q)) \text{Int}[1/(b/2 + q/2 + c*x^n), x], x]] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{NeQ}[c*d^2 - b*d*e + a*e^2, 0] \&\& (\text{PosQ}[b^2 - 4*a*c] \parallel \text{!IGtQ}[n/2, 0])$
1753. $\text{Int}[\frac{(d_+ + (e_-)*(x_-)^{(n_-)})}{(a_+ + (b_-)*(x_-)^{(n_-)} + (c_-)*(x_-)^{(n2_-)})}, x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[a/c, 2]\}, \text{With}\{r = \text{Rt}[2*q - b/c, 2]\}, \text{Simp}[1/(2*c*q*r) \text{Int}[(d*r - (d - e*q)*x^{(n/2)})/(q - r*x^{(n/2)} + x^n), x], x] + \text{Simp}[1/(2*c*q*r) \text{Int}[(d*r + (d - e*q)*x^{(n/2)})/(q + r*x^{(n/2)} + x^n), x], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{N}$

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eQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && IGtQ[n/2, 0] &&
NegQ[b^2 - 4*a*c]

1754. Int[((d_) + (e_)*(x_)^(n_))^(q_)/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)
^(n2_)), x_Symbol] :> Int[ExpandIntegrand[(d + e*x^n)^q/(a + b*x^n + c
*x^(2*n)), x], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n] && N
eQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && IntegerQ[q]

1755. Int[((d_) + (e_)*(x_)^(n_))^(q_)/((a_) + (c_)*(x_)^(n2_)), x_Symbol]
:> Int[ExpandIntegrand[(d + e*x^n)^q/(a + c*x^(2*n)), x], x] /; FreeQ
[{a, c, d, e, n}, x] && EqQ[n2, 2*n] && NeQ[c*d^2 + a*e^2, 0] && Integ
erQ[q]

1756. Int[((d_) + (e_)*(x_)^(n_))^(q_)/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)
^(n2_)), x_Symbol] :> Simp[e^2/(c*d^2 - b*d*e + a*e^2) Int[(d + e*x^
n)^q, x], x] + Simp[1/(c*d^2 - b*d*e + a*e^2) Int[(d + e*x^n)^(q + 1
)*((c*d - b*e - c*e*x^n)/(a + b*x^n + c*x^(2*n))), x], x] /; FreeQ[{a,
b, c, d, e, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^
2 - b*d*e + a*e^2, 0] && !IntegerQ[q] && LtQ[q, -1]

1757. Int[((d_) + (e_)*(x_)^(n_))^(q_)/((a_) + (c_)*(x_)^(n2_)), x_Symbol]
:> Simp[e^2/(c*d^2 + a*e^2) Int[(d + e*x^n)^q, x], x] + Simp[c/(c*d
^2 + a*e^2) Int[(d + e*x^n)^(q + 1)*((d - e*x^n)/(a + c*x^(2*n))), x
], x] /; FreeQ[{a, c, d, e, n}, x] && EqQ[n2, 2*n] && NeQ[c*d^2 + a*e^
2, 0] && !IntegerQ[q] && LtQ[q, -1]

1758. Int[((d_) + (e_)*(x_)^(n_))^(q_)/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)
^(n2_)), x_Symbol] :> With[{r = Rt[b^2 - 4*a*c, 2]}, Simp[2*(c/r) In
t[(d + e*x^n)^q/(b - r + 2*c*x^n), x], x] - Simp[2*(c/r) Int[(d + e*
x^n)^q/(b + r + 2*c*x^n), x], x]] /; FreeQ[{a, b, c, d, e, n, q}, x] &
& EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0]
&& !IntegerQ[q]

1759. Int[((d_) + (e_)*(x_)^(n_))^(q_)/((a_) + (c_)*(x_)^(n2_)), x_Symbol]
:> With[{r = Rt[(-a)*c, 2]}, Simp[-c/(2*r) Int[(d + e*x^n)^q/(r - c
*x^n), x], x] - Simp[c/(2*r) Int[(d + e*x^n)^q/(r + c*x^n), x], x]]
/; FreeQ[{a, c, d, e, n, q}, x] && EqQ[n2, 2*n] && NeQ[c*d^2 + a*e^2,

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0] && !IntegerQ[q]

1760. Int[((d_) + (e_)*(x_)^(n_))*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_
))^(p_), x_Symbol] := Simp[(-x)*(d*b^2 - a*b*e - 2*a*c*d + (b*d - 2*a*
e)*c*x^n)*((a + b*x^n + c*x^(2*n))^(p + 1)/(a*n*(p + 1)*(b^2 - 4*a*c)
), x] + Simp[1/(a*n*(p + 1)*(b^2 - 4*a*c)) Int[Simp[(n*p + n + 1)*d*
b^2 - a*b*e - 2*a*c*d*(2*n*p + 2*n + 1) + (2*n*p + 3*n + 1)*(d*b - 2*a
*e)*c*x^n, x]*(a + b*x^n + c*x^(2*n))^(p + 1), x], x] /; FreeQ[{a, b,
c, d, e, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p, -1]

1761. Int[((d_) + (e_)*(x_)^(n_))*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol]
:= Simp[(-x)*(d + e*x^n)*((a + c*x^(2*n))^(p + 1)/(2*a*n*(p + 1))), x
] + Simp[1/(2*a*n*(p + 1)) Int[(d*(2*n*p + 2*n + 1) + e*(2*n*p + 3*n
+ 1)*x^n)*(a + c*x^(2*n))^(p + 1), x], x] /; FreeQ[{a, c, d, e, n}, x
] && EqQ[n2, 2*n] && ILtQ[p, -1]

1762. Int[((d_) + (e_)*(x_)^(n_))*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_
))^(p_), x_Symbol] := Int[ExpandIntegrand[(d + e*x^n)*(a + b*x^n + c*x
^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n] && N
eQ[b^2 - 4*a*c, 0]

1763. Int[((d_) + (e_)*(x_)^(n_))*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol]
:= Int[ExpandIntegrand[(d + e*x^n)*(a + c*x^(2*n))^p, x], x] /; FreeQ
[{a, c, d, e, n}, x] && EqQ[n2, 2*n]

1764. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)
^(n2_))^(p_), x_Symbol] := Simp[c^p*x^(2*n*p - n + 1)*((d + e*x^n)^(q
+ 1)/(e*(2*n*p + n*q + 1))), x] + Int[(d + e*x^n)^q*ExpandToSum[(a + b
*x^n + c*x^(2*n))^p - c^p*x^(2*n*p) - d*c^p*(2*n*p - n + 1)*(x^(2*n*p
- n)/(e*(2*n*p + n*q + 1))), x], x] /; FreeQ[{a, b, c, d, e, n, q}, x]
&& EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[p, 0] && NeQ[2*n*p + n
*q + 1, 0] && IGtQ[n, 0] && !IGtQ[q, 0]

1765. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (c_)*(x_)^(n2_))^(p_), x_Sy
mbol] := Simp[c^p*x^(2*n*p - n + 1)*((d + e*x^n)^(q + 1)/(e*(2*n*p + n
*q + 1))), x] + Int[(d + e*x^n)^q*ExpandToSum[(a + c*x^(2*n))^p - c^p*
x^(2*n*p) - d*c^p*(2*n*p - n + 1)*(x^(2*n*p - n)/(e*(2*n*p + n*q + 1))

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-), x], x] /; FreeQ[{a, c, d, e, n, q}, x] && EqQ[n2, 2*n] && IGtQ[p, 0] && NeQ[2*n*p + n*q + 1, 0] && IGtQ[n, 0] && !IGtQ[q, 0]
1766. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Int[ExpandIntegrand[(d + e*x^n)^q*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e, n, p, q}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && ((IntegersQ[p, q] && !IntegerQ[n]) || IGtQ[p, 0] || (IGtQ[q, 0] && !IntegerQ[n]))
1767. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Int[ExpandIntegrand[(d + e*x^n)^q*(a + c*x^(2*n))^p, x], x] /; FreeQ[{a, c, d, e, n, p, q}, x] && EqQ[n2, 2*n] && NeQ[c*d^2 + a*e^2, 0] && ((IntegersQ[p, q] && !IntegerQ[n]) || IGtQ[p, 0] || (IGtQ[q, 0] && !IntegerQ[n]))
1768. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Int[ExpandIntegrand[(a + c*x^(2*n))^p, (d/(d^2 - e^2*x^(2*n)) - e*(x^n/(d^2 - e^2*x^(2*n))))^(-q), x], x] /; FreeQ[{a, c, d, e, n, p}, x] && EqQ[n2, 2*n] && NeQ[c*d^2 + a*e^2, 0] && !IntegerQ[p] && ILtQ[q, 0]
1769. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Unintegrable[(d + e*x^n)^q*(a + b*x^n + c*x^(2*n))^p, x] /; FreeQ[{a, b, c, d, e, n, p, q}, x] && EqQ[n2, 2*n]
1770. Int[((d_) + (e_)*(x_)^(n_))^(q_)*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Unintegrable[(d + e*x^n)^q*(a + c*x^(2*n))^p, x] /; FreeQ[{a, c, d, e, n, p, q}, x] && EqQ[n2, 2*n]
1771. Int[((d_) + (e_)*(u_)^(n_))^(q_)*((a_) + (b_)*(u_)^(n_) + (c_)*(u_)^(n2_))^(p_), x_Symbol] := Simp[1/Coefficient[u, x, 1] Subst[Int[(d + e*x^n)^q*(a + b*x^n + c*x^(2*n))^p, x], x, u], x] /; FreeQ[{a, b, c, d, e, n, p, q}, x] && EqQ[n2, 2*n] && LinearQ[u, x] && NeQ[u, x]

1772. $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(u_{\cdot})^{(n_{\cdot})}\right)^{(q_{\cdot})} \left((a_{\cdot}) + (c_{\cdot})(u_{\cdot})^{(n2_{\cdot})}\right)^{(p_{\cdot})}, x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(d + e*x^n)^q*(a + c*x^{(2*n)})^p, x], x, u], x] /;$ $\text{FreeQ}[\{a, c, d, e, n, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{LinearQ}[u, x] \ \&\& \ \text{NeQ}[u, x]$
1773. $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^{(mn_{\cdot})}\right)^{(q_{\cdot})} \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^{(n_{\cdot})} + (c_{\cdot})(x_{\cdot})^{(n2_{\cdot})}\right)^{(p_{\cdot})}, x_{\cdot} \text{Symbol}] \rightarrow \text{Int}[\left((e + d*x^n)^q*(a + b*x^n + c*x^{(2*n)})^p\right)/x^{(n*q)}, x] /;$ $\text{FreeQ}[\{a, b, c, d, e, n, p\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ (\text{PosQ}[n] \ || \ !\text{IntegerQ}[p])$
1774. $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^{(mn_{\cdot})}\right)^{(q_{\cdot})} \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^{(n2_{\cdot})}\right)^{(p_{\cdot})}, x_{\cdot} \text{Symbol}] \rightarrow \text{Int}[x^{(mn*q)}*(e + d/x^{mn})^q*(a + c*x^{n2})^p, x] /;$ $\text{FreeQ}[\{a, c, d, e, mn, p\}, x] \ \&\& \ \text{EqQ}[n2, -2*mn] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ (\text{PosQ}[n2] \ || \ !\text{IntegerQ}[p])$
1775. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^{(mn_{\cdot})} + (c_{\cdot})(x_{\cdot})^{(mn2_{\cdot})}\right)^{(p_{\cdot})} \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^{(n_{\cdot})}\right)^{(q_{\cdot})}, x_{\cdot} \text{Symbol}] \rightarrow \text{Int}[\left((d + e*x^n)^q*(c + b*x^n + a*x^{(2*n)})^p\right)/x^{(2*n*p)}, x] /;$ $\text{FreeQ}[\{a, b, c, d, e, n, q\}, x] \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ \text{EqQ}[mn2, 2*mn] \ \&\& \ \text{IntegerQ}[p]$
1776. $\text{Int}[\left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^{(mn2_{\cdot})}\right)^{(p_{\cdot})} \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^{(n_{\cdot})}\right)^{(q_{\cdot})}, x_{\cdot} \text{Symbol}] \rightarrow \text{Int}[\left((d + e*x^n)^q*(c + a*x^{(2*n)})^p\right)/x^{(2*n*p)}, x] /;$ $\text{FreeQ}[\{a, c, d, e, n, q\}, x] \ \&\& \ \text{EqQ}[mn2, -2*n] \ \&\& \ \text{IntegerQ}[p]$
1777. $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^{(mn_{\cdot})}\right)^{(q_{\cdot})} \left((a_{\cdot}) + (b_{\cdot})(x_{\cdot})^{(n_{\cdot})} + (c_{\cdot})(x_{\cdot})^{(n2_{\cdot})}\right)^{(p_{\cdot})}, x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[e^{\text{IntPart}[q]}*x^{(n*\text{FracPart}[q])}*(d + e/x^n)^{\text{FracPart}[q]}/(1 + d*(x^n/e))^{\text{FracPart}[q]} \text{ Int}[\left((1 + d*(x^n/e))^q*(a + b*x^n + c*x^{(2*n)})^p\right)/x^{(n*q)}, x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, n, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ \text{PosQ}[n]$
1778. $\text{Int}[\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^{(mn_{\cdot})}\right)^{(q_{\cdot})} \left((a_{\cdot}) + (c_{\cdot})(x_{\cdot})^{(n2_{\cdot})}\right)^{(p_{\cdot})}, x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[(e^{\text{IntPart}[q]}*((d + e*x^{mn})^{\text{FracPart}[q]}/(1 + d*(1/(x^{mn*e}))^{\text{FracPart}[q]})))/x^{(mn*\text{FracPart}[q])} \text{ Int}[x^{(mn*q)}*(1 + d*(1/(x^{mn*e}))^q*(a + c*x^{n2})^p, x], x] /;$ $\text{FreeQ}[\{a, c, d, e, mn, p, q\}, x] \ \&\& \ \text{EqQ}[n2, -2*mn] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ \text{PosQ}[n2]$

1779. $\text{Int}[(a_.) + (b_.)(x_)^{(mn_.)} + (c_.)(x_)^{(mn2_.)}]^{(p_.)} * ((d_.) + (e_.)(x_)^{(n_.)})^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(2*n*FracPart[p])} * ((a + b/x^n + c/x^{(2*n)})^{FracPart[p]} / (c + b*x^n + a*x^{(2*n)})^{FracPart[p]}) \text{Int}[(d + e*x^n)^q * (c + b*x^n + a*x^{(2*n)})^p / x^{(2*n*p)}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, n, p, q\}, x\} \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ \text{EqQ}[mn2, 2*mn] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ \text{PosQ}[n]$
1780. $\text{Int}[(a_.) + (c_.)(x_)^{(mn2_.)}]^{(p_.)} * ((d_.) + (e_.)(x_)^{(n_.)})^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(2*n*FracPart[p])} * ((a + c/x^{(2*n)})^{FracPart[p]} / (c + a*x^{(2*n)})^{FracPart[p]}) \text{Int}[(d + e*x^n)^q * (c + a*x^{(2*n)})^p / x^{(2*n*p)}, x], x] /;$ $\text{FreeQ}\{a, c, d, e, n, p, q\}, x\} \ \&\& \ \text{EqQ}[mn2, -2*n] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ \text{PosQ}[n]$
1781. $\text{Int}[(a_.) + (c_.)(x_)^{(n_.)} + (b_.)(x_)^{(mn_.)}]^{(p_.)} * ((d_.) + (e_.)(x_)^{(n_.)})^{(q_.)}, x_Symbol] \rightarrow \text{Int}[(d + e*x^n)^q * (b + a*x^n + c*x^{(2*n)})^p / x^{(n*p)}, x] /;$ $\text{FreeQ}\{a, b, c, d, e, n, q\}, x\} \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ \text{IntegerQ}[p]$
1782. $\text{Int}[(a_.) + (c_.)(x_)^{(n_.)} + (b_.)(x_)^{(mn_.)}]^{(p_.)} * ((d_.) + (e_.)(x_)^{(n_.)})^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(n*FracPart[p])} * ((a + b/x^n + c*x^n)^{FracPart[p]} / (b + a*x^n + c*x^{(2*n)})^{FracPart[p]}) \text{Int}[(d + e*x^n)^q * (b + a*x^n + c*x^{(2*n)})^p / x^{(n*p)}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, n, p, q\}, x\} \ \&\& \ \text{EqQ}[mn, -n] \ \&\& \ !\text{IntegerQ}[p]$
1783. $\text{Int}[(d_.) + (e_.)(x_)^{(n_.)}]^{(q_.)} * ((f_.) + (g_.)(x_)^{(n_.)})^{(r_.)} * ((a_.) + (b_.)(x_)^{(n_.)} + (c_.)(x_)^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*x^n + c*x^{(2*n)})^{FracPart[p]} / ((4*c)^{\text{IntPart}[p]} * (b + 2*c*x^n)^{(2*FracPart[p])}) \text{Int}[(d + e*x^n)^q * (f + g*x^n)^r * (b + 2*c*x^n)^{(2*p)}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, n, p, q, r\}, x\} \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[b^2 - 4*a*c, 0] \ \&\& \ !\text{IntegerQ}[p]$
1784. $\text{Int}[(d_.) + (e_.)(x_)^{(n_.)}]^{(q_.)} * ((f_.) + (g_.)(x_)^{(n_.)})^{(r_.)} * ((a_.) + (b_.)(x_)^{(n_.)} + (c_.)(x_)^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Int}[(d + e*x^n)^{(p+q)} * (f + g*x^n)^r * (a/d + (c/e)*x^n)^p, x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, n, q, r\}, x\} \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{EqQ}[c*d^2 - b*d*e + a*e^2, 0] \ \&\& \ \text{IntegerQ}[p]$

1785. $\text{Int}[\left((d_{_}) + (e_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})} \cdot \left((f_{_}) + (g_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(r_{_})} \cdot \left((a_{_}) + (c_{_}) \cdot (x_{_})^{(n2_{_})}\right)^{(p_{_})}, x_{\text{Symbol}}] \rightarrow \text{Int}[(d + e \cdot x^n)^{(p+q)} \cdot (f + g \cdot x^n)^r \cdot (a/d + (c/e) \cdot x^n)^p, x] /; \text{FreeQ}\{a, c, d, e, f, g, n, q, r\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \ \&\& \ \text{IntegerQ}[p]$
1786. $\text{Int}[\left((d_{_}) + (e_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})} \cdot \left((f_{_}) + (g_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(r_{_})} \cdot \left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})} + (c_{_}) \cdot (x_{_})^{(n2_{_})}\right)^{(p_{_})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b \cdot x^n + c \cdot x^{(2 \cdot n)})^{\text{FracPart}[p]} / ((d + e \cdot x^n)^{\text{FracPart}[p]} \cdot (a/d + (c \cdot x^n)/e)^{\text{FracPart}[p]}) \ \text{Int}[(d + e \cdot x^n)^{(p+q)} \cdot (f + g \cdot x^n)^r \cdot (a/d + (c/e) \cdot x^n)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, p, q, r\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{EqQ}[c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2, 0] \ \&\& \ !\text{IntegerQ}[p]$
1787. $\text{Int}[\left((d_{_}) + (e_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})} \cdot \left((f_{_}) + (g_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(r_{_})} \cdot \left((a_{_}) + (c_{_}) \cdot (x_{_})^{(n2_{_})}\right)^{(p_{_})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + c \cdot x^{(2 \cdot n)})^{\text{FracPart}[p]} / ((d + e \cdot x^n)^{\text{FracPart}[p]} \cdot (a/d + (c \cdot x^n)/e)^{\text{FracPart}[p]}) \ \text{Int}[(d + e \cdot x^n)^{(p+q)} \cdot (f + g \cdot x^n)^r \cdot (a/d + (c/e) \cdot x^n)^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, g, n, p, q, r\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[c \cdot d^2 + a \cdot e^2, 0] \ \&\& \ !\text{IntegerQ}[p]$
1788. $\text{Int}[\left((d1_{_}) + (e1_{_}) \cdot (x_{_})^{(non2_{_})}\right)^{(q_{_})} \cdot \left((d2_{_}) + (e2_{_}) \cdot (x_{_})^{(non2_{_})}\right)^{(q_{_})} \cdot \left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})} + (c_{_}) \cdot (x_{_})^{(n2_{_})}\right)^{(p_{_})}, x_{\text{Symbol}}] \rightarrow \text{Int}[(d1 \cdot d2 + e1 \cdot e2 \cdot x^n)^q \cdot (a + b \cdot x^n + c \cdot x^{(2 \cdot n)})^p, x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, n, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[non2, n/2] \ \&\& \ \text{EqQ}[d2 \cdot e1 + d1 \cdot e2, 0] \ \&\& \ (\text{IntegerQ}[q] \ || \ (\text{GtQ}[d1, 0] \ \&\& \ \text{GtQ}[d2, 0]))$
1789. $\text{Int}[\left((d1_{_}) + (e1_{_}) \cdot (x_{_})^{(non2_{_})}\right)^{(q_{_})} \cdot \left((d2_{_}) + (e2_{_}) \cdot (x_{_})^{(non2_{_})}\right)^{(q_{_})} \cdot \left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})} + (c_{_}) \cdot (x_{_})^{(n2_{_})}\right)^{(p_{_})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d1 + e1 \cdot x^{(n/2)})^{\text{FracPart}[q]} \cdot ((d2 + e2 \cdot x^{(n/2)})^{\text{FracPart}[q]} / (d1 \cdot d2 + e1 \cdot e2 \cdot x^n)^{\text{FracPart}[q]}) \ \text{Int}[(d1 \cdot d2 + e1 \cdot e2 \cdot x^n)^q \cdot (a + b \cdot x^n + c \cdot x^{(2 \cdot n)})^p, x], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, n, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{EqQ}[non2, n/2] \ \&\& \ \text{EqQ}[d2 \cdot e1 + d1 \cdot e2, 0]$
1790. $\text{Int}[\left((A_{_}) + (B_{_}) \cdot (x_{_})^{(m_{_})}\right) \cdot \left((d_{_}) + (e_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})} \cdot \left((a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})} + (c_{_}) \cdot (x_{_})^{(n2_{_})}\right)^{(p_{_})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[A \ \text{Int}[(d + e \cdot x^n)^q \cdot (a + b \cdot x^n + c \cdot x^{(2 \cdot n)})^p, x], x] + \text{Simp}[B \ \text{Int}[x^m \cdot (d +$

- $e*x^n)^q*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[m - n + 1, 0]$
1791. $\text{Int}[(A_ + (B_)*(x_)^{(m_)})*((d_ + (e_)*(x_)^{(n_)})^{(q_)}*((a_ + (c_)*(x_)^{(n2_)}))^{(p_)}), x_Symbol] := \text{Simp}[A \ \text{Int}[(d + e*x^n)^q*(a + c*x^{(2*n)})^p, x], x] + \text{Simp}[B \ \text{Int}[x^m*(d + e*x^n)^q*(a + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, c, d, e, A, B, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[m - n + 1, 0]$
1792. $\text{Int}[(f_)*(x_)^{(m_)}*((e_)*(x_)^{(n_)})^{(q_)}*((a_ + (c_)*(x_)^{(n2_)} + (b_)*(x_)^{(n_)})^{(p_)}), x_Symbol] := \text{Simp}[f^m/(n*e^{((m + 1)/n - 1)}) \ \text{Subst}[\text{Int}[(e*x)^{(q + (m + 1)/n - 1)}*(a + b*x + c*x^2)^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& (\text{IntegerQ}[m] \ || \ \text{GtQ}[f, 0]) \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
1793. $\text{Int}[(f_)*(x_)^{(m_)}*((e_)*(x_)^{(n_)})^{(q_)}*((a_ + (c_)*(x_)^{(n2_)}))^{(p_)}), x_Symbol] := \text{Simp}[f^m/(n*e^{((m + 1)/n - 1)}) \ \text{Subst}[\text{Int}[(e*x)^{(q + (m + 1)/n - 1)}*(a + c*x^2)^p, x], x, x^n], x] /; \text{FreeQ}\{a, c, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& (\text{IntegerQ}[m] \ || \ \text{GtQ}[f, 0]) \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
1794. $\text{Int}[(f_)*(x_)^{(m_)}*((e_)*(x_)^{(n_)})^{(q_)}*((a_ + (c_)*(x_)^{(n2_)} + (b_)*(x_)^{(n_)})^{(p_)}), x_Symbol] := \text{Simp}[f^m*e^{\text{IntPart}[q]}*((e*x^n)^{\text{FracPart}[q]}/x^{(n*\text{FracPart}[q])}) \ \text{Int}[x^{(m + n*q)}*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& (\text{IntegerQ}[m] \ || \ \text{GtQ}[f, 0]) \&\& !\text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
1795. $\text{Int}[(f_)*(x_)^{(m_)}*((e_)*(x_)^{(n_)})^{(q_)}*((a_ + (c_)*(x_)^{(n2_)}))^{(p_)}), x_Symbol] := \text{Simp}[f^m*e^{\text{IntPart}[q]}*((e*x^n)^{\text{FracPart}[q]}/x^{(n*\text{FracPart}[q])}) \ \text{Int}[x^{(m + n*q)}*(a + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, c, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& (\text{IntegerQ}[m] \ || \ \text{GtQ}[f, 0]) \&\& !\text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
1796. $\text{Int}[(f_)*(x_)^{(m_)}*((e_)*(x_)^{(n_)})^{(q_)}*((a_ + (c_)*(x_)^{(n2_)} + (b_)*(x_)^{(n_)})^{(p_)}), x_Symbol] := \text{Simp}[f^{\text{IntPart}[m]}*((f*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \ \text{Int}[x^m*(e*x^n)^q*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& !\text{In}$

tegerQ[m]

1797. $\text{Int}[(f(x))^m \cdot (e(x)^n)^q \cdot (a + c(x)^{n2})^p, x_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]} \cdot (f \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]} \cdot \text{Int}[x^m \cdot (e \cdot x^n)^q \cdot (a + c \cdot x^{2n})^p, x], x] /; \text{FreeQ}\{a, c, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& !\text{IntegerQ}[m]$
1798. $\text{Int}[x^m \cdot (a + c(x)^{n2} + b(x)^n)^p \cdot (d + e(x)^n)^q, x_Symbol] \rightarrow \text{Simp}[1/n \cdot \text{Subst}[\text{Int}[(d + e \cdot x)^q \cdot (a + b \cdot x + c \cdot x^2)^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{EqQ}[\text{Simplify}[m - n + 1], 0]$
1799. $\text{Int}[x^m \cdot (a + c(x)^{n2})^p \cdot (d + e(x)^n)^q, x_Symbol] \rightarrow \text{Simp}[1/n \cdot \text{Subst}[\text{Int}[(d + e \cdot x)^q \cdot (a + c \cdot x^2)^p, x], x, x^n], x] /; \text{FreeQ}\{a, c, d, e, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{EqQ}[\text{Simplify}[m - n + 1], 0]$
1800. $\text{Int}[x^m \cdot (a + c(x)^{n2} + b(x)^n)^p \cdot (d + e(x)^n)^q, x_Symbol] \rightarrow \text{Int}[x^{m + n \cdot (2 \cdot p + q)} \cdot (e + d/x^n)^q \cdot (c + b/x^n + a/x^{2n})^p, x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{IntegersQ}[p, q] \&\& \text{NegQ}[n]$
1801. $\text{Int}[x^m \cdot (a + c(x)^{n2})^p \cdot (d + e(x)^n)^q, x_Symbol] \rightarrow \text{Int}[x^{m + n \cdot (2 \cdot p + q)} \cdot (e + d/x^n)^q \cdot (c + a/x^{2n})^p, x] /; \text{FreeQ}\{a, c, d, e, m, n\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{IntegersQ}[p, q] \&\& \text{NegQ}[n]$
1802. $\text{Int}[x^m \cdot (a + c(x)^{n2} + b(x)^n)^p \cdot (d + e(x)^n)^q, x_Symbol] \rightarrow \text{Simp}[1/n \cdot \text{Subst}[\text{Int}[x^{\text{Simplify}[(m + 1)/n] - 1} \cdot (d + e \cdot x)^q \cdot (a + b \cdot x + c \cdot x^2)^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
1803. $\text{Int}[x^m \cdot (a + c(x)^{n2})^p \cdot (d + e(x)^n)^q, x_Symbol] \rightarrow \text{Simp}[1/n \cdot \text{Subst}[\text{Int}[x^{\text{Simplify}[(m + 1)/n] - 1} \cdot (d + e \cdot x)^q \cdot (a + c \cdot x^2)^p, x], x, x^n], x] /; \text{FreeQ}\{a, c, d, e, m,$

- $n, p, q\}$, $x]$ && EqQ[n2, 2*n] && IntegerQ[Simplify[(m + 1)/n]]
1804. $\text{Int}[\left((f_)(x_)^{(m_)} + (c_)(x_)^{(n2_)} + (b_)(x_)^{(n_)}\right)^{(p_)} \cdot \left((d_)(x_)^{(n_)} + (e_)(x_)^{(n_)}\right)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]} \cdot \left(\frac{(f \cdot x)^{\text{FracPart}[m]}}{x^{\text{FracPart}[m]}} \int [x^m (d + e \cdot x^n)^q (a + b \cdot x^n + c \cdot x^{(2 \cdot n)})^p, x] \text{ ; FreeQ}\{a, b, c, d, e, f, m, n, p, q\}, x\} \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]]$
1805. $\text{Int}[\left((f_)(x_)^{(m_)} + (c_)(x_)^{(n2_)}\right)^{(p_)} \cdot \left((d_)(x_)^{(n_)} + (e_)(x_)^{(n_)}\right)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]} \cdot \left(\frac{(f \cdot x)^{\text{FracPart}[m]}}{x^{\text{FracPart}[m]}} \int [x^m (d + e \cdot x^n)^q (a + c \cdot x^{(2 \cdot n)})^p, x] \text{ ; FreeQ}\{a, c, d, e, f, m, n, p, q\}, x\} \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]]$
1806. $\text{Int}[(x_)^{(m_)} \cdot \left((a_)(x_)^{(n2_)} + (b_)(x_)^{(n_)}\right)^{(p_)} \cdot \left((d_)(x_)^{(n_)} + (e_)(x_)^{(n_)}\right)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(-d)^{\left((m - \text{Mod}[m, n])/n - 1\right)} \cdot (c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)^p \cdot x^{\left(\text{Mod}[m, n] + 1\right)} \cdot \left(\frac{(d + e \cdot x^n)^{(q + 1)}}{n \cdot e^{(2 \cdot p + (m - \text{Mod}[m, n])/n)} \cdot (q + 1)}\right), x] + \text{Simp}[1/(n \cdot e^{(2 \cdot p + (m - \text{Mod}[m, n])/n)} \cdot (q + 1)) \int [x^{\text{Mod}[m, n]} \cdot (d + e \cdot x^n)^{(q + 1)} \cdot \text{ExpandToSum}[\text{Together}[(1/(d + e \cdot x^n)) \cdot (n \cdot e^{(2 \cdot p + (m - \text{Mod}[m, n])/n)} \cdot (q + 1) \cdot x^{(m - \text{Mod}[m, n])} \cdot (a + b \cdot x^n + c \cdot x^{(2 \cdot n)})^p - (-d)^{\left((m - \text{Mod}[m, n])/n - 1\right)} \cdot (c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)^p \cdot (d \cdot (\text{Mod}[m, n] + 1) + e \cdot (\text{Mod}[m, n] + n \cdot (q + 1) + 1) \cdot x^n)], x], x], x] \text{ ; FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[q, -1] \&\& \text{IGtQ}[m, 0]$
1807. $\text{Int}[(x_)^{(m_)} \cdot \left((a_)(x_)^{(n2_)}\right)^{(p_)} \cdot \left((d_)(x_)^{(n_)} + (e_)(x_)^{(n_)}\right)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(-d)^{\left((m - \text{Mod}[m, n])/n - 1\right)} \cdot (c \cdot d^2 + a \cdot e^2)^p \cdot x^{\left(\text{Mod}[m, n] + 1\right)} \cdot \left(\frac{(d + e \cdot x^n)^{(q + 1)}}{n \cdot e^{(2 \cdot p + (m - \text{Mod}[m, n])/n)} \cdot (q + 1)}\right), x] + \text{Simp}[1/(n \cdot e^{(2 \cdot p + (m - \text{Mod}[m, n])/n)} \cdot (q + 1)) \int [x^{\text{Mod}[m, n]} \cdot (d + e \cdot x^n)^{(q + 1)} \cdot \text{ExpandToSum}[\text{Together}[(1/(d + e \cdot x^n)) \cdot (n \cdot e^{(2 \cdot p + (m - \text{Mod}[m, n])/n)} \cdot (q + 1) \cdot x^{(m - \text{Mod}[m, n])} \cdot (a + c \cdot x^{(2 \cdot n)})^p - (-d)^{\left((m - \text{Mod}[m, n])/n - 1\right)} \cdot (c \cdot d^2 + a \cdot e^2)^p \cdot (d \cdot (\text{Mod}[m, n] + 1) + e \cdot (\text{Mod}[m, n] + n \cdot (q + 1) + 1) \cdot x^n)], x], x], x] \text{ ; FreeQ}\{a, c, d, e\}, x\} \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[q, -1] \&\& \text{IGtQ}[m, 0]$

1808. $\text{Int}[(x_)^{(m_)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_)})^{(p_.)}*((d_) + (e_.)*(x_)^{(n_)})^{(q_)}, x_Symbol] := \text{Simp}[(-d)^{(m - \text{Mod}[m, n])/n - 1}*(c*d^2 - b*d*e + a*e^2)^p*x^{(\text{Mod}[m, n] + 1)}*((d + e*x^n)^{(q + 1)}/(n*e^{(2*p + (m - \text{Mod}[m, n])/n)*(q + 1))}), x] + \text{Simp}[(-d)^{(m - \text{Mod}[m, n])/n - 1}/(n*e^{(2*p)*(q + 1)}) \text{Int}[x^m*(d + e*x^n)^{(q + 1)}*\text{ExpandToSum}[\text{Together}[(1/(d + e*x^n))*(n*(-d)^{-(m - \text{Mod}[m, n])/n + 1})*e^{(2*p)*(q + 1)}*(a + b*x^n + c*x^{(2*n)})^p - ((c*d^2 - b*d*e + a*e^2)^p/(e^{(m - \text{Mod}[m, n])/n}*x^{(m - \text{Mod}[m, n])}))*(d*(\text{Mod}[m, n] + 1) + e*(\text{Mod}[m, n] + n*(q + 1) + 1)*x^n)], x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[n^2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[q, -1] \&\& \text{ILtQ}[m, 0]$
1809. $\text{Int}[(x_)^{(m_)}*((a_) + (c_.)*(x_)^{(n2_.)})^{(p_.)}*((d_) + (e_.)*(x_)^{(n_)})^{(q_)}, x_Symbol] := \text{Simp}[(-d)^{(m - \text{Mod}[m, n])/n - 1}*(c*d^2 + a*e^2)^p*x^{(\text{Mod}[m, n] + 1)}*((d + e*x^n)^{(q + 1)}/(n*e^{(2*p + (m - \text{Mod}[m, n])/n)*(q + 1))}), x] + \text{Simp}[(-d)^{(m - \text{Mod}[m, n])/n - 1}/(n*e^{(2*p)*(q + 1)}) \text{Int}[x^m*(d + e*x^n)^{(q + 1)}*\text{ExpandToSum}[\text{Together}[(1/(d + e*x^n))*(n*(-d)^{-(m - \text{Mod}[m, n])/n + 1})*e^{(2*p)*(q + 1)}*(a + c*x^{(2*n)})^p - ((c*d^2 + a*e^2)^p/(e^{(m - \text{Mod}[m, n])/n}*x^{(m - \text{Mod}[m, n])}))*(d*(\text{Mod}[m, n] + 1) + e*(\text{Mod}[m, n] + n*(q + 1) + 1)*x^n)], x], x], x] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{EqQ}[n^2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{IntegerQ}[m, q] \&\& \text{ILtQ}[q, -1] \&\& \text{ILtQ}[m, 0]$
1810. $\text{Int}[((f_.)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)} + (b_.)*(x_)^{(n_)})^{(p_.)}*((d_) + (e_.)*(x_)^{(n_)})^{(q_.)}, x_Symbol] := \text{Simp}[c^p*(f*x)^{(m + 2*n*p - n + 1)}*((d + e*x^n)^{(q + 1)}/(e*f^{(2*n*p - n + 1)}*(m + 2*n*p + n*q + 1))), x] + \text{Simp}[1/(e*(m + 2*n*p + n*q + 1)) \text{Int}[(f*x)^m*(d + e*x^n)^q*\text{ExpandToSum}[e*(m + 2*n*p + n*q + 1)*((a + b*x^n + c*x^{(2*n)})^p - c^p*x^{(2*n*p)}) - d*c^p*(m + 2*n*p - n + 1)*x^{(2*n*p - n)}, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[n^2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{GtQ}[2*n*p, n - 1] \&\& !\text{IntegerQ}[q] \&\& \text{NeQ}[m + 2*n*p + n*q + 1, 0]$
1811. $\text{Int}[((f_.)*(x_))^{(m_.)}*((a_) + (c_.)*(x_)^{(n2_.)})^{(p_.)}*((d_) + (e_.)*(x_)^{(n_)})^{(q_.)}, x_Symbol] := \text{Simp}[c^p*(f*x)^{(m + 2*n*p - n + 1)}*((d + e*x^n)^{(q + 1)}/(e*f^{(2*n*p - n + 1)}*(m + 2*n*p + n*q + 1))), x] + \text{Simp}[1/(e*(m + 2*n*p + n*q + 1)) \text{Int}[(f*x)^m*(d + e*x^n)^q*\text{ExpandToSum}[e*(m + 2*n*p + n*q + 1)*((a + c*x^{(2*n)})^p - c^p*x^{(2*n*p)}) - d*c^p*($

- $$m + 2*n*p - n + 1)*x^{(2*n*p - n)}, x], x] /; \text{FreeQ}\{a, c, d, e, f, m, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{GtQ}[2*n*p, n - 1] \&\& \text{!IntegerQ}[q] \&\& \text{NeQ}[m + 2*n*p + n*q + 1, 0]$$
1812. $\text{Int}[(f_)*(x_)]^{(m_)}*((a_)+(c_)*(x_)]^{(n2_)}+(b_)*(x_)]^{(n_)]^{(p_)}*((d_)+(e_)*(x_)]^{(n_)]^{(q_)}, x_Symbol] :> \text{Int}[\text{ExpandIntegrand}[(f*x)^m*(d + e*x^n)^q*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
1813. $\text{Int}[(f_)*(x_)]^{(m_)}*((a_)+(c_)*(x_)]^{(n2_)]^{(p_)}*((d_)+(e_)*(x_)]^{(n_)]^{(q_)}, x_Symbol] :> \text{Int}[\text{ExpandIntegrand}[(f*x)^m*(d + e*x^n)^q*(a + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, m, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
1814. $\text{Int}[(x_)]^{(m_)}*((a_)+(c_)*(x_)]^{(n2_)}+(b_)*(x_)]^{(n_)]^{(p_)}*((d_)+(e_)*(x_)]^{(n_)]^{(q_)}, x_Symbol] :> \text{With}\{k = \text{GCD}[m + 1, n]\}, \text{Simp}[1/k \text{ Subst}[\text{Int}[x^{((m + 1)/k - 1)*(d + e*x^{(n/k)})^q*(a + b*x^{(n/k)} + c*x^{(2*(n/k))})^p, x}], x, x^k], x] /; k \neq 1] /; \text{FreeQ}\{a, b, c, d, e, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m]$
1815. $\text{Int}[(x_)]^{(m_)}*((a_)+(c_)*(x_)]^{(n2_)]^{(p_)}*((d_)+(e_)*(x_)]^{(n_)]^{(q_)}, x_Symbol] :> \text{With}\{k = \text{GCD}[m + 1, n]\}, \text{Simp}[1/k \text{ Subst}[\text{Int}[x^{((m + 1)/k - 1)*(d + e*x^{(n/k)})^q*(a + c*x^{(2*(n/k))})^p, x}], x, x^k], x] /; k \neq 1] /; \text{FreeQ}\{a, c, d, e, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m]$
1816. $\text{Int}[(f_)*(x_)]^{(m_)}*((a_)+(c_)*(x_)]^{(n2_)}+(b_)*(x_)]^{(n_)]^{(p_)}*((d_)+(e_)*(x_)]^{(n_)]^{(q_)}, x_Symbol] :> \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k/f \text{ Subst}[\text{Int}[x^{(k*(m + 1) - 1)*(d + e*(x^{(k*n)}/f^n)^q*(a + b*(x^{(k*n)}/f^n) + c*(x^{(2*k*n)}/f^{(2*n))})^p, x], x, (f*x)^{(1/k)}], x]] /; \text{FreeQ}\{a, b, c, d, e, f, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{FractionQ}[m] \&\& \text{IntegerQ}[p]$
1817. $\text{Int}[(f_)*(x_)]^{(m_)}*((a_)+(c_)*(x_)]^{(n2_)]^{(p_)}*((d_)+(e_)*(x_)]^{(n_)]^{(q_)}, x_Symbol] :> \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k/f \text{ Subst}[\text{Int}[x^{(k*(m + 1) - 1)*(d + e*(x^{(k*n)}/f))}^q*(a + c*(x^{(2*k*n)}/f))^{(p)}, x], x, (f*x)^{(1/k)}], x]]$

- , x], x, (f*x)^(1/k)], x]] /; FreeQ[{a, c, d, e, f, p, q}, x] && EqQ[n2, 2*n] && IGtQ[n, 0] && FractionQ[m] && IntegerQ[p]
1818. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^(n_))*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :> Simp[(f*x)^(m+1)*(a + b*x^n + c*x^(2*n))^p*((d*(m+n*(2*p+1)+1) + e*(m+1)*x^n)/(f*(m+1)*(m+n*(2*p+1)+1))), x] + Simp[n*(p/(f^n*(m+1)*(m+n*(2*p+1)+1))) Int[(f*x)^(m+n)*(a + b*x^n + c*x^(2*n))^(p-1)*Simp[2*a*e*(m+1) - b*d*(m+n*(2*p+1)+1) + (b*e*(m+1) - 2*c*d*(m+n*(2*p+1)+1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && GtQ[p, 0] && LtQ[m, -1] && NeQ[m+n*(2*p+1)+1, 0] && IntegerQ[p]
1819. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^(n_))*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :> Simp[(f*x)^(m+1)*(a + c*x^(2*n))^p*((d*(m+n*(2*p+1)+1) + e*(m+1)*x^n)/(f*(m+1)*(m+n*(2*p+1)+1))), x] + Simp[2*n*(p/(f^n*(m+1)*(m+n*(2*p+1)+1))) Int[(f*x)^(m+n)*(a + c*x^(2*n))^(p-1)*(a*e*(m+1) - c*d*(m+n*(2*p+1)+1)*x^n), x], x] /; FreeQ[{a, c, d, e, f}, x] && EqQ[n2, 2*n] && IGtQ[n, 0] && GtQ[p, 0] && LtQ[m, -1] && NeQ[m+n*(2*p+1)+1, 0] && IntegerQ[p]
1820. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^(n_))*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :> Simp[(f*x)^(m+1)*(a + b*x^n + c*x^(2*n))^p*((b*e*n*p + c*d*(m+n*(2*p+1)+1) + c*e*(2*n*p+m+1)*x^n)/(c*f*(2*n*p+m+1)*(m+n*(2*p+1)+1))), x] + Simp[n*(p/(c*(2*n*p+m+1)*(m+n*(2*p+1)+1))) Int[(f*x)^(m*(a + b*x^n + c*x^(2*n))^(p-1)*Simp[2*a*c*d*(m+n*(2*p+1)+1) - a*b*e*(m+1) + (2*a*c*e*(2*n*p+m+1) + b*c*d*(m+n*(2*p+1)+1) - b^2*e*(m+n*p+1))*x^n, x], x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && GtQ[p, 0] && NeQ[2*n*p+m+1, 0] && NeQ[m+n*(2*p+1)+1, 0] && IntegerQ[p]
1821. Int[((f_)*(x_))^(m_)*((d_) + (e_)*(x_)^(n_))*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :> Simp[(f*x)^(m+1)*(a + c*x^(2*n))^p*((c*d*(m+n*(2*p+1)+1) + c*e*(2*n*p+m+1)*x^n)/(c*f*(2*n*p+m+1)*(m+n*(2*p+1)+1))), x] + Simp[2*a*n*(p/((2*n*p+m+1)*(m+n*(2*p+1)+1)))

- $$+ 1) + 1))) \quad \text{Int}[(f*x)^m*(a + c*x^{(2*n)})^{(p - 1)*\text{Simp}[d*(m + n*(2*p + 1) + 1) + e*(2*n*p + m + 1)*x^n, x], x] /; \text{FreeQ}\{a, c, d, e, f, m\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[2*n*p + m + 1, 0] \&\& \text{NeQ}[m + n*(2*p + 1) + 1, 0] \&\& \text{IntegerQ}[p]$$
1822.
$$\text{Int}[(f_*)*(x_*)^{(m_*)}*((d_*) + (e_*)*(x_*)^{(n_*)})*((a_*) + (b_*)*(x_*)^{(n_*)} + (c_*)*(x_*)^{(n2_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[f^{(n - 1)}*(f*x)^{(m - n + 1)}*(a + b*x^n + c*x^{(2*n)})^{(p + 1)}*((b*d - 2*a*e - (b*e - 2*c*d)*x^n)/(n*(p + 1)*(b^2 - 4*a*c))], x] + \text{Simp}[f^n/(n*(p + 1)*(b^2 - 4*a*c)) \text{Int}[(f*x)^{(m - n)}*(a + b*x^n + c*x^{(2*n)})^{(p + 1)}*\text{Simp}[(n - m - 1)*(b*d - 2*a*e) + (2*n*p + 2*n + m + 1)*(b*e - 2*c*d)*x^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, n - 1] \&\& \text{IntegerQ}[p]$$
1823.
$$\text{Int}[(f_*)*(x_*)^{(m_*)}*((d_*) + (e_*)*(x_*)^{(n_*)})*((a_*) + (c_*)*(x_*)^{(n2_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[f^{(n - 1)}*(f*x)^{(m - n + 1)}*(a + c*x^{(2*n)})^{(p + 1)}*((a*e - c*d*x^n)/(2*a*c*n*(p + 1))), x] + \text{Simp}[f^n/(2*a*c*n*(p + 1)) \text{Int}[(f*x)^{(m - n)}*(a + c*x^{(2*n)})^{(p + 1)}*(a*e*(n - m - 1) + c*d*(2*n*p + 2*n + m + 1)*x^n), x], x] /; \text{FreeQ}\{a, c, d, e, f\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, n - 1] \&\& \text{IntegerQ}[p]$$
1824.
$$\text{Int}[(f_*)*(x_*)^{(m_*)}*((d_*) + (e_*)*(x_*)^{(n_*)})*((a_*) + (b_*)*(x_*)^{(n_*)} + (c_*)*(x_*)^{(n2_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[(-f*x)^{(m + 1)}*(a + b*x^n + c*x^{(2*n)})^{(p + 1)}*((d*(b^2 - 2*a*c) - a*b*e + (b*d - 2*a*e)*c*x^n)/(a*f*n*(p + 1)*(b^2 - 4*a*c))], x] + \text{Simp}[1/(a*n*(p + 1)*(b^2 - 4*a*c)) \text{Int}[(f*x)^m*(a + b*x^n + c*x^{(2*n)})^{(p + 1)}*\text{Simp}[d*(b^2*(m + n*(p + 1) + 1) - 2*a*c*(m + 2*n*(p + 1) + 1)) - a*b*e*(m + 1) + c*(m + n*(2*p + 3) + 1)*(b*d - 2*a*e)*x^n, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[p]$$
1825.
$$\text{Int}[(f_*)*(x_*)^{(m_*)}*((d_*) + (e_*)*(x_*)^{(n_*)})*((a_*) + (c_*)*(x_*)^{(n2_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[(-f*x)^{(m + 1)}*(a + c*x^{(2*n)})^{(p + 1)}*(d + e*x^n)/(2*a*f*n*(p + 1)), x] + \text{Simp}[1/(2*a*n*(p + 1)) \text{Int}[(f*x)^m*(a + c*x^{(2*n)})^{(p + 1)}*\text{Simp}[d*(m + 2*n*(p + 1) + 1) + e*(m + n*(2*p + 3) + 1)*x^n, x], x], x] /; \text{FreeQ}\{a, c, d, e, f, m\}, x] \&\& \text{EqQ}[n2$$

- , 2*n] && IGtQ[n, 0] && LtQ[p, -1] && IntegerQ[p]
1826. $\text{Int}[\left(\frac{(f \cdot x)^m \cdot (d + e \cdot x^n) \cdot (a + b \cdot x^n + c \cdot x^{2n})^p}{(c \cdot (m + n \cdot (2p + 1) + 1))}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[e \cdot f^{n-1} \cdot (f \cdot x)^{m-n+1} \cdot (a + b \cdot x^n + c \cdot x^{2n})^{p+1} / (c \cdot (m + n \cdot (2p + 1) + 1))], x] - \text{Simp}[f^n / (c \cdot (m + n \cdot (2p + 1) + 1))] \text{Int}[(f \cdot x)^{m-n} \cdot (a + b \cdot x^n + c \cdot x^{2n})^p \cdot \text{Simp}[a \cdot e \cdot (m - n + 1) + (b \cdot e \cdot (m + n \cdot p + 1) - c \cdot d \cdot (m + n \cdot (2p + 1) + 1)) \cdot x^n, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, p\}, x] \&\& \text{EqQ}[n^2, 2 \cdot n] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[m, n - 1] \&\& \text{NeQ}[m + n \cdot (2p + 1) + 1, 0] \&\& \text{IntegerQ}[p]$
1827. $\text{Int}[\left(\frac{(f \cdot x)^m \cdot (d + e \cdot x^n) \cdot (a + c \cdot x^{2n})^p}{(c \cdot (m + n \cdot (2p + 1) + 1))}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[e \cdot f^{n-1} \cdot (f \cdot x)^{m-n+1} \cdot (a + c \cdot x^{2n})^{p+1} / (c \cdot (m + n \cdot (2p + 1) + 1))], x] - \text{Simp}[f^n / (c \cdot (m + n \cdot (2p + 1) + 1))] \text{Int}[(f \cdot x)^{m-n} \cdot (a + c \cdot x^{2n})^p \cdot (a \cdot e \cdot (m - n + 1) - c \cdot d \cdot (m + n \cdot (2p + 1) + 1)) \cdot x^n, x], x] /; \text{FreeQ}[\{a, c, d, e, f, p\}, x] \&\& \text{EqQ}[n^2, 2 \cdot n] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[m, n - 1] \&\& \text{NeQ}[m + n \cdot (2p + 1) + 1, 0] \&\& \text{IntegerQ}[p]$
1828. $\text{Int}[\left(\frac{(f \cdot x)^m \cdot (d + e \cdot x^n) \cdot (a + b \cdot x^n + c \cdot x^{2n})^p}{(a \cdot f \cdot (m + 1))}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot (f \cdot x)^{m+1} \cdot (a + b \cdot x^n + c \cdot x^{2n})^{p+1} / (a \cdot f \cdot (m + 1))], x] + \text{Simp}[1 / (a \cdot f^n \cdot (m + 1))] \text{Int}[(f \cdot x)^{m+n} \cdot (a + b \cdot x^n + c \cdot x^{2n})^p \cdot \text{Simp}[a \cdot e \cdot (m + 1) - b \cdot d \cdot (m + n \cdot (p + 1) + 1) - c \cdot d \cdot (m + 2 \cdot n \cdot (p + 1) + 1)) \cdot x^n, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, p\}, x] \&\& \text{EqQ}[n^2, 2 \cdot n] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[m, -1] \&\& \text{IntegerQ}[p]$
1829. $\text{Int}[\left(\frac{(f \cdot x)^m \cdot (d + e \cdot x^n) \cdot (a + c \cdot x^{2n})^p}{(a \cdot f \cdot (m + 1))}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot (f \cdot x)^{m+1} \cdot (a + c \cdot x^{2n})^{p+1} / (a \cdot f \cdot (m + 1))], x] + \text{Simp}[1 / (a \cdot f^n \cdot (m + 1))] \text{Int}[(f \cdot x)^{m+n} \cdot (a + c \cdot x^{2n})^p \cdot (a \cdot e \cdot (m + 1) - c \cdot d \cdot (m + 2 \cdot n \cdot (p + 1) + 1)) \cdot x^n, x], x] /; \text{FreeQ}[\{a, c, d, e, f, p\}, x] \&\& \text{EqQ}[n^2, 2 \cdot n] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[m, -1] \&\& \text{IntegerQ}[p]$
1830. $\text{Int}[\left(\frac{(f \cdot x)^m \cdot (d + e \cdot x^n)}{(a + b \cdot x^n + c \cdot x^{2n})}\right), x_{\text{Symbol}}] \rightarrow \text{With}[\{q = \text{Rt}[a \cdot c, 2]\}, \text{With}[\{r = \text{Rt}[2 \cdot c \cdot q - b \cdot c, 2]\}, \text{Simp}[c / (2 \cdot q \cdot r) \text{Int}[(f \cdot x)^m \cdot (\text{Simp}[d \cdot r - (c \cdot d - e$

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*q)*x^(n/2), x]/(q - r*x^(n/2) + c*x^n), x], x] + Simp[c/(2*q*r) In
t[(f*x)^m*(Simp[d*r + (c*d - e*q)*x^(n/2), x]/(q + r*x^(n/2) + c*x^n))
, x], x]] /; !LtQ[2*c*q - b*c, 0]] /; FreeQ[{a, b, c, d, e, f}, x] &&
EqQ[n2, 2*n] && LtQ[b^2 - 4*a*c, 0] && IntegersQ[m, n/2] && LtQ[0, m,
n] && PosQ[a*c]

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1831.  $\text{Int}[\frac{((f \cdot x)^m \cdot ((d) + (e \cdot x)^n))}{((a) + (c \cdot x)^{n2})}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[a \cdot c, 2]\}, \text{With}[\{r = \text{Rt}[2 \cdot c \cdot q, 2]\}, \text{Simp}[c/(2 \cdot q \cdot r) \text{Int}[(f \cdot x)^m \cdot (\text{Simp}[d \cdot r - (c \cdot d - e \cdot q) \cdot x^{n/2}], x]/(q - r \cdot x^{n/2} + c \cdot x^n)), x], x] + \text{Simp}[c/(2 \cdot q \cdot r) \text{Int}[(f \cdot x)^m \cdot (\text{Simp}[d \cdot r + (c \cdot d - e \cdot q) \cdot x^{n/2}], x]/(q + r \cdot x^{n/2} + c \cdot x^n)), x], x]] /; !\text{LtQ}[2 \cdot c \cdot q, 0]] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{GtQ}[a \cdot c, 0] \&\& \text{IntegersQ}[m, n/2] \&\& \text{LtQ}[0, m, n]$
1832.  $\text{Int}[\frac{((f \cdot x)^m \cdot ((d) + (e \cdot x)^n))}{((a) + (b \cdot x)^{n2}) + (c \cdot x)^{n2}}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[a \cdot c, 2]\}, \text{With}[\{r = \text{Rt}[2 \cdot c \cdot q - b \cdot c, 2]\}, \text{Simp}[c/(2 \cdot q \cdot r) \text{Int}[(f \cdot x)^m \cdot ((d \cdot r - (c \cdot d - e \cdot q) \cdot x^{n/2}))/((q - r \cdot x^{n/2} + c \cdot x^n)), x], x] + \text{Simp}[c/(2 \cdot q \cdot r) \text{Int}[(f \cdot x)^m \cdot ((d \cdot r + (c \cdot d - e \cdot q) \cdot x^{n/2}))/((q + r \cdot x^{n/2} + c \cdot x^n)), x], x]] /; !\text{LtQ}[2 \cdot c \cdot q - b \cdot c, 0]] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{LtQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{IGtQ}[n/2, 1] \&\& \text{PosQ}[a \cdot c]$
1833.  $\text{Int}[\frac{((f \cdot x)^m \cdot ((d) + (e \cdot x)^n))}{((a) + (c \cdot x)^{n2})}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[a \cdot c, 2]\}, \text{With}[\{r = \text{Rt}[2 \cdot c \cdot q, 2]\}, \text{Simp}[c/(2 \cdot q \cdot r) \text{Int}[(f \cdot x)^m \cdot ((d \cdot r - (c \cdot d - e \cdot q) \cdot x^{n/2}))/((q - r \cdot x^{n/2} + c \cdot x^n)), x], x] + \text{Simp}[c/(2 \cdot q \cdot r) \text{Int}[(f \cdot x)^m \cdot ((d \cdot r + (c \cdot d - e \cdot q) \cdot x^{n/2}))/((q + r \cdot x^{n/2} + c \cdot x^n)), x], x]] /; !\text{LtQ}[2 \cdot c \cdot q, 0]] /; \text{FreeQ}[\{a, c, d, e, f, m\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{IGtQ}[n/2, 1] \&\& \text{GtQ}[a \cdot c, 0]$
1834.  $\text{Int}[\frac{((f \cdot x)^m \cdot ((d) + (e \cdot x)^n))}{((a) + (b \cdot x)^{n2}) + (c \cdot x)^{n2}}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b^2 - 4 \cdot a \cdot c, 2]\}, \text{Simp}[(e/2 + (2 \cdot c \cdot d - b \cdot e)/(2 \cdot q)) \text{Int}[(f \cdot x)^m/(b/2 - q/2 + c \cdot x^n), x], x] + \text{Simp}[(e/2 - (2 \cdot c \cdot d - b \cdot e)/(2 \cdot q)) \text{Int}[(f \cdot x)^m/(b/2 + q/2 + c \cdot x^n), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[n2, 2 \cdot n] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{IGtQ}[n, 0]$

1835.  $\text{Int}[(((f\_.)*(x\_))^m\_)*((d\_)+(e\_)*(x\_)^n\_)]/((a\_)+(c\_)*(x\_)^{n2\_}), x\_Symbol] \rightarrow \text{With}\{[q = \text{Rt}[(-a)*c, 2]\}, \text{Simp}[-(e/2 + c*(d/(2*q)))] \text{Int}[(f*x)^m/(q - c*x^n), x], x] + \text{Simp}[(e/2 - c*(d/(2*q)))] \text{Int}[(f*x)^m/(q + c*x^n), x], x] \text{ /; FreeQ}\{[a, c, d, e, f, m], x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0]$
1836.  $\text{Int}[(((f\_.)*(x\_))^m\_)*((d\_)+(e\_)*(x\_)^n\_)]^q_/((a\_)+(c\_)*(x\_)^{n2\_}) + (b\_)*(x\_)^n\_), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m*((d + e*x^n)^q/(a + b*x^n + c*x^{2*n}))], x], x] \text{ /; FreeQ}\{[a, b, c, d, e, f, m], x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[q] \&\& \text{IntegerQ}[m]$
1837.  $\text{Int}[(((f\_.)*(x\_))^m\_)*((d\_)+(e\_)*(x\_)^n\_)]^q_/((a\_)+(c\_)*(x\_)^{n2\_}), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m*((d + e*x^n)^q/(a + c*x^{2*n}))], x], x] \text{ /; FreeQ}\{[a, c, d, e, f, m], x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[q] \&\& \text{IntegerQ}[m]$
1838.  $\text{Int}[(((f\_.)*(x\_))^m\_)*((d\_)+(e\_)*(x\_)^n\_)]^q_/((a\_)+(c\_)*(x\_)^{n2\_}) + (b\_)*(x\_)^n\_), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m, (d + e*x^n)^q/(a + b*x^n + c*x^{2*n}), x], x] \text{ /; FreeQ}\{[a, b, c, d, e, f, m], x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[q] \&\& !\text{IntegerQ}[m]$
1839.  $\text{Int}[(((f\_.)*(x\_))^m\_)*((d\_)+(e\_)*(x\_)^n\_)]^q_/((a\_)+(c\_)*(x\_)^{n2\_}), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m, (d + e*x^n)^q/(a + c*x^{2*n}), x], x] \text{ /; FreeQ}\{[a, c, d, e, f, m], x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[q] \&\& !\text{IntegerQ}[m]$
1840.  $\text{Int}[(((f\_.)*(x\_))^m\_)*((d\_)+(e\_)*(x\_)^n\_)]^q_/((a\_)+(c\_)*(x\_)^{n2\_}) + (b\_)*(x\_)^n\_), x\_Symbol] \rightarrow \text{Simp}[f^{2*n}/c^2 \text{Int}[(f*x)^{m-2*n}*(c*d - b*e + c*e*x^n)*(d + e*x^n)^{q-1}, x], x] - \text{Simp}[f^{2*n}/c^2 \text{Int}[(f*x)^{m-2*n}*(d + e*x^n)^{q-1}*(\text{Simp}[a*(c*d - b*e) + (b*c*d - b^2*e + a*c*e)*x^n, x]/(a + b*x^n + c*x^{2*n}))], x], x] \text{ /; FreeQ}\{[a, b, c, d, e, f], x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[m, 2*n - 1]$

1841.  $\text{Int}[(((f\_)(x\_))^{\text{m\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_)(x\_)^{\text{n2\_}}), x\_Symbol] \rightarrow \text{Simp}[f^{\text{(2*n)}}/c \text{ Int}[(f*x)^{\text{(m-2*n)}}*(d+e*x^{\text{n}})^{\text{q}}, x], x] - \text{Simp}[a*(f^{\text{(2*n)}}/c \text{ Int}[(f*x)^{\text{(m-2*n)}}*((d+e*x^{\text{n}})^{\text{q}}/(a+c*x^{\text{(2*n)}})), x], x] /; \text{FreeQ}[\{a, c, d, e, f, q\}, x] \&\& \text{EqQ}[\text{n2}, 2*n] \&\& \text{IGtQ}[\text{n}, 0] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[\text{m}, 2*n-1]$
1842.  $\text{Int}[(((f\_)(x\_))^{\text{m\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_)(x\_)^{\text{n2\_}}+(b\_)(x\_)^{\text{n}}), x\_Symbol] \rightarrow \text{Simp}[e*(f^{\text{n}}/c \text{ Int}[(f*x)^{\text{(m-n)}}*(d+e*x^{\text{n}})^{\text{(q-1)}}, x], x] - \text{Simp}[f^{\text{n}}/c \text{ Int}[(f*x)^{\text{(m-n)}}*(d+e*x^{\text{n}})^{\text{(q-1)}}*(\text{Simp}[a*e-(c*d-b*e)*x^{\text{n}}, x]/(a+b*x^{\text{n}}+c*x^{\text{(2*n)}})), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[\text{n2}, 2*n] \&\& \text{NeQ}[\text{b}^2-4*a*c, 0] \&\& \text{IGtQ}[\text{n}, 0] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[\text{m}, \text{n}-1] \&\& \text{LeQ}[\text{m}, 2*n-1]$
1843.  $\text{Int}[(((f\_)(x\_))^{\text{m\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_)(x\_)^{\text{n2\_}}), x\_Symbol] \rightarrow \text{Simp}[e*(f^{\text{n}}/c \text{ Int}[(f*x)^{\text{(m-n)}}*(d+e*x^{\text{n}})^{\text{(q-1)}}, x], x] - \text{Simp}[f^{\text{n}}/c \text{ Int}[(f*x)^{\text{(m-n)}}*(d+e*x^{\text{n}})^{\text{(q-1)}}*(\text{Simp}[a*e-c*d*x^{\text{n}}, x]/(a+c*x^{\text{(2*n)}})), x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{EqQ}[\text{n2}, 2*n] \&\& \text{IGtQ}[\text{n}, 0] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{GtQ}[\text{m}, \text{n}-1] \&\& \text{LeQ}[\text{m}, 2*n-1]$
1844.  $\text{Int}[(((f\_)(x\_))^{\text{m\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_)(x\_)^{\text{n2\_}}+(b\_)(x\_)^{\text{n}}), x\_Symbol] \rightarrow \text{Simp}[d/a \text{ Int}[(f*x)^{\text{m}}*(d+e*x^{\text{n}})^{\text{(q-1)}}, x], x] - \text{Simp}[1/(a*f^{\text{n}} \text{ Int}[(f*x)^{\text{(m+n)}}*(d+e*x^{\text{n}})^{\text{(q-1)}}*(\text{Simp}[b*d-a*e+c*d*x^{\text{n}}, x]/(a+b*x^{\text{n}}+c*x^{\text{(2*n)}})), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[\text{n2}, 2*n] \&\& \text{NeQ}[\text{b}^2-4*a*c, 0] \&\& \text{IGtQ}[\text{n}, 0] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{LtQ}[\text{m}, 0]$
1845.  $\text{Int}[(((f\_)(x\_))^{\text{m\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_)(x\_)^{\text{n2\_}}), x\_Symbol] \rightarrow \text{Simp}[d/a \text{ Int}[(f*x)^{\text{m}}*(d+e*x^{\text{n}})^{\text{(q-1)}}, x], x] + \text{Simp}[1/(a*f^{\text{n}} \text{ Int}[(f*x)^{\text{(m+n)}}*(d+e*x^{\text{n}})^{\text{(q-1)}}*(\text{Simp}[a*e-c*d*x^{\text{n}}, x]/(a+c*x^{\text{(2*n)}})), x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{EqQ}[\text{n2}, 2*n] \&\& \text{IGtQ}[\text{n}, 0] \&\& !\text{IntegerQ}[q] \&\& \text{GtQ}[q, 0] \&\& \text{LtQ}[\text{m}, 0]$
1846.  $\text{Int}[(((f\_)(x\_))^{\text{m\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_)(x\_)^{\text{n2\_}}+(b\_)(x\_)^{\text{n}}), x\_Symbol] \rightarrow \text{Simp}[d^2*(f^{\text{(2*n)}}/(c*d^2$

- $$- b*d*e + a*e^2)) \quad \text{Int}[(f*x)^{(m-2*n)}*(d + e*x^n)^q, x], x] - \text{Simp}[f^{(2*n)} / (c*d^2 - b*d*e + a*e^2) \quad \text{Int}[(f*x)^{(m-2*n)}*(d + e*x^n)^{(q+1)} * (\text{Simp}[a*d + (b*d - a*e)*x^n, x] / (a + b*x^n + c*x^{(2*n)}))], x], x] /;$$

$$\text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{GtQ}[m, 2*n - 1]$$
1847. 
$$\text{Int}[(((f\_)*(x\_))^{(m\_)}*((d\_)+(e\_)*(x\_)^{(n\_)})^{(q\_)})/((a\_)+(c\_)*(x\_)^{(n2\_)}), x\_Symbol] \ :> \ \text{Simp}[d^2*(f^{(2*n)})/(c*d^2 + a*e^2) \quad \text{Int}[(f*x)^{(m-2*n)}*(d + e*x^n)^q, x], x] - \text{Simp}[a*(f^{(2*n)})/(c*d^2 + a*e^2) \quad \text{Int}[(f*x)^{(m-2*n)}*(d + e*x^n)^{(q+1)}*((d - e*x^n)/(a + c*x^{(2*n)}))], x], x] /;$$

$$\text{FreeQ}\{a, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{GtQ}[m, 2*n - 1]$$
1848. 
$$\text{Int}[(((f\_)*(x\_))^{(m\_)}*((d\_)+(e\_)*(x\_)^{(n\_)})^{(q\_)})/((a\_)+(c\_)*(x\_)^{(n2\_)} + (b\_)*(x\_)^{(n\_)}), x\_Symbol] \ :> \ \text{Simp}[(-d)*e*(f^n/(c*d^2 - b*d*e + a*e^2)) \quad \text{Int}[(f*x)^{(m-n)}*(d + e*x^n)^q, x], x] + \text{Simp}[f^n/(c*d^2 - b*d*e + a*e^2) \quad \text{Int}[(f*x)^{(m-n)}*(d + e*x^n)^{(q+1)}*(\text{Simp}[a*e + c*d*x^n, x] / (a + b*x^n + c*x^{(2*n)}))], x], x] /;$$

$$\text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{GtQ}[m, n - 1] \ \&\& \ \text{LeQ}[m, 2*n - 1]$$
1849. 
$$\text{Int}[(((f\_)*(x\_))^{(m\_)}*((d\_)+(e\_)*(x\_)^{(n\_)})^{(q\_)})/((a\_)+(c\_)*(x\_)^{(n2\_)}), x\_Symbol] \ :> \ \text{Simp}[(-d)*e*(f^n/(c*d^2 + a*e^2)) \quad \text{Int}[(f*x)^{(m-n)}*(d + e*x^n)^q, x], x] + \text{Simp}[f^n/(c*d^2 + a*e^2) \quad \text{Int}[(f*x)^{(m-n)}*(d + e*x^n)^{(q+1)}*(\text{Simp}[a*e + c*d*x^n, x] / (a + c*x^{(2*n)}))], x], x] /;$$

$$\text{FreeQ}\{a, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{GtQ}[m, n - 1] \ \&\& \ \text{LeQ}[m, 2*n - 1]$$
1850. 
$$\text{Int}[(((f\_)*(x\_))^{(m\_)}*((d\_)+(e\_)*(x\_)^{(n\_)})^{(q\_)})/((a\_)+(b\_)*(x\_)^{(n\_)} + (c\_)*(x\_)^{(n2\_)}), x\_Symbol] \ :> \ \text{Simp}[e^2/(c*d^2 - b*d*e + a*e^2) \quad \text{Int}[(f*x)^m*(d + e*x^n)^q, x], x] + \text{Simp}[1/(c*d^2 - b*d*e + a*e^2) \quad \text{Int}[(f*x)^m*(d + e*x^n)^{(q+1)}*(\text{Simp}[c*d - b*e - c*e*x^n, x] / (a + b*x^n + c*x^{(2*n)}))], x], x] /;$$

$$\text{FreeQ}\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ \text{LtQ}[q, -1]$$



1851.  $\text{Int}[(((f\_.)*(x\_))^{\text{m\_}}*((d\_)+(e\_)*(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_.)*(x\_)^{\text{n2\_}}), x\_Symbol] \rightarrow \text{Simp}[e^2/(c*d^2+a*e^2) \text{ Int}[(f*x)^m*(d+e*x^n)^q, x], x] + \text{Simp}[c/(c*d^2+a*e^2) \text{ Int}[(f*x)^m*(d+e*x^n)^{q+1}*((d-e*x^n)/(a+c*x^{2*n}))], x], x] /; \text{FreeQ}\{a, c, d, e, f, m\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ \text{LtQ}[q, -1]$
1852.  $\text{Int}[(((f\_.)*(x\_))^{\text{m\_}}*((d\_)+(e\_)*(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_.)*(x\_)^{\text{n2\_}}+(b\_.)*(x\_)^{\text{n\_}}), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d+e*x^n)^q, (f*x)^m/(a+b*x^n+c*x^{2*n}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, q, n\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[b^2-4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ \text{IntegerQ}[m]$
1853.  $\text{Int}[(((f\_.)*(x\_))^{\text{m\_}}*((d\_)+(e\_)*(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_.)*(x\_)^{\text{n2\_}}), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d+e*x^n)^q, (f*x)^m/(a+c*x^{2*n}), x], x] /; \text{FreeQ}\{a, c, d, e, f, q, n\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ \text{IntegerQ}[m]$
1854.  $\text{Int}[(((f\_.)*(x\_))^{\text{m\_}}*((d\_)+(e\_)*(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_.)*(x\_)^{\text{n2\_}}+(b\_.)*(x\_)^{\text{n\_}}), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m*(d+e*x^n)^q, 1/(a+b*x^n+c*x^{2*n}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q, n\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[b^2-4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ !\text{IntegerQ}[m]$
1855.  $\text{Int}[(((f\_.)*(x\_))^{\text{m\_}}*((d\_)+(e\_)*(x\_)^{\text{n\_}})^{\text{q\_}})/((a\_)+(c\_.)*(x\_)^{\text{n2\_}}), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m*(d+e*x^n)^q, 1/(a+c*x^{2*n}), x], x] /; \text{FreeQ}\{a, c, d, e, f, m, q, n\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ !\text{IntegerQ}[m]$
1856.  $\text{Int}[(((f\_.)*(x\_))^{\text{m\_}}*((a\_)+(c\_.)*(x\_)^{\text{n2\_}}+(b\_.)*(x\_)^{\text{n\_}})^{\text{p\_}})/((d\_)+(e\_)*(x\_)^{\text{n\_}}), x\_Symbol] \rightarrow \text{Simp}[1/d^2 \text{ Int}[(f*x)^m*(a*d+(b*d-a*e)*x^n)*(a+b*x^n+c*x^{2*n})^{p-1}, x], x] + \text{Simp}[(c*d^2-b*d*e+a*e^2)/(d^2*f^{2*n}) \text{ Int}[(f*x)^{m+2*n}*((a+b*x^n+c*x^{2*n})^{p-1}/(d+e*x^n)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{NeQ}[b^2-4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[m, -n]$

1857.  $\text{Int}[(((f\_.)*(x\_))^m)*((a\_)+(c\_)*(x\_)^{n2\_})^{(p\_)}]/((d\_)+(e\_)*(x\_)^{n\_}), x\_Symbol] \rightarrow \text{Simp}[a/d^2 \text{ Int}[(f*x)^m*(d - e*x^n)*(a + c*x^{2*n})^{(p-1)}, x], x] + \text{Simp}[(c*d^2 + a*e^2)/(d^2*f^{(2*n)}) \text{ Int}[(f*x)^{(m+2*n)}*((a + c*x^{2*n})^{(p-1)})/(d + e*x^n)], x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -n]$
1858.  $\text{Int}[(((f\_.)*(x\_))^m)*((a\_)+(c\_)*(x\_)^{n2\_})+(b\_)*(x\_)^{n\_})^{(p\_)}]/((d\_)+(e\_)*(x\_)^{n\_}), x\_Symbol] \rightarrow \text{Simp}[1/(d*e) \text{ Int}[(f*x)^m*(a*e + c*d*x^n)*(a + b*x^n + c*x^{2*n})^{(p-1)}, x], x] - \text{Simp}[(c*d^2 - b*d*e + a*e^2)/(d*e*f^n) \text{ Int}[(f*x)^{(m+n)}*((a + b*x^n + c*x^{2*n})^{(p-1)})/(d + e*x^n)], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, 0]$
1859.  $\text{Int}[(((f\_.)*(x\_))^m)*((a\_)+(c\_)*(x\_)^{n2\_})^{(p\_)}]/((d\_)+(e\_)*(x\_)^{n\_}), x\_Symbol] \rightarrow \text{Simp}[1/(d*e) \text{ Int}[(f*x)^m*(a*e + c*d*x^n)*(a + c*x^{2*n})^{(p-1)}, x], x] - \text{Simp}[(c*d^2 + a*e^2)/(d*e*f^n) \text{ Int}[(f*x)^{(m+n)}*((a + c*x^{2*n})^{(p-1)})/(d + e*x^n)], x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, 0]$
1860.  $\text{Int}[(((f\_.)*(x\_))^m)*((a\_)+(c\_)*(x\_)^{n2\_})+(b\_)*(x\_)^{n\_})^{(p\_)}]/((d\_)+(e\_)*(x\_)^{n\_}), x\_Symbol] \rightarrow \text{Simp}[-f^{(2*n)}/(c*d^2 - b*d*e + a*e^2) \text{ Int}[(f*x)^{(m-2*n)}*(a*d + (b*d - a*e)*x^n)*(a + b*x^n + c*x^{2*n})^p, x], x] + \text{Simp}[d^2*(f^{(2*n)})/(c*d^2 - b*d*e + a*e^2) \text{ Int}[(f*x)^{(m-2*n)}*((a + b*x^n + c*x^{2*n})^{(p+1)})/(d + e*x^n)], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, n]$
1861.  $\text{Int}[(((f\_.)*(x\_))^m)*((a\_)+(c\_)*(x\_)^{n2\_})^{(p\_)}]/((d\_)+(e\_)*(x\_)^{n\_}), x\_Symbol] \rightarrow \text{Simp}[(-a)*(f^{(2*n)})/(c*d^2 + a*e^2) \text{ Int}[(f*x)^{(m-2*n)}*(d - e*x^n)*(a + c*x^{2*n})^p, x], x] + \text{Simp}[d^2*(f^{(2*n)})/(c*d^2 + a*e^2) \text{ Int}[(f*x)^{(m-2*n)}*((a + c*x^{2*n})^{(p+1)})/(d + e*x^n)], x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[m, n]$

1862.  $\text{Int}[(((f\_)(x\_))^{\text{m\_}}*((a\_)+(c\_)(x\_)^{\text{n2\_}})+(b\_)(x\_)^{\text{n\_}})^{\text{p\_}})/((d\_)+(e\_)(x\_)^{\text{n\_}}), x\_Symbol] \rightarrow \text{Simp}[f^{\text{n}}/(c*d^2 - b*d*e + a*e^2) \text{Int}[(f*x)^{\text{m-n}}*(a*e + c*d*x^{\text{n}})*(a + b*x^{\text{n}} + c*x^{2*\text{n}})^{\text{p}}, x], x] - \text{Simp}[d*e*(f^{\text{n}}/(c*d^2 - b*d*e + a*e^2)) \text{Int}[(f*x)^{\text{m-n}}*((a + b*x^{\text{n}} + c*x^{2*\text{n}})^{\text{p+1}})/(d + e*x^{\text{n}}), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[\text{n2}, 2*\text{n}] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[\text{n}, 0] \&\& \text{LtQ}[\text{p}, -1] \&\& \text{GtQ}[\text{m}, 0]$
1863.  $\text{Int}[(((f\_)(x\_))^{\text{m\_}}*((a\_)+(c\_)(x\_)^{\text{n2\_}})^{\text{p\_}})/((d\_)+(e\_)(x\_)^{\text{n\_}}), x\_Symbol] \rightarrow \text{Simp}[f^{\text{n}}/(c*d^2 + a*e^2) \text{Int}[(f*x)^{\text{m-n}}*(a*e + c*d*x^{\text{n}})*(a + c*x^{2*\text{n}})^{\text{p}}, x], x] - \text{Simp}[d*e*(f^{\text{n}}/(c*d^2 + a*e^2)) \text{Int}[(f*x)^{\text{m-n}}*((a + c*x^{2*\text{n}})^{\text{p+1}})/(d + e*x^{\text{n}}), x], x] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \&\& \text{EqQ}[\text{n2}, 2*\text{n}] \&\& \text{IGtQ}[\text{n}, 0] \&\& \text{LtQ}[\text{p}, -1] \&\& \text{GtQ}[\text{m}, 0]$
1864.  $\text{Int}[(f\_)(x\_)^{\text{m\_}}*((a\_)+(c\_)(x\_)^{\text{n2\_}})+(b\_)(x\_)^{\text{n\_}})^{\text{p\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*x^{\text{n}} + c*x^{2*\text{n}})^{\text{p}}, (f*x)^{\text{m}}*(d + e*x^{\text{n}})^{\text{q}}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[\text{n2}, 2*\text{n}] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[\text{n}, 0] \&\& \text{IGtQ}[\text{q}, 0]$
1865.  $\text{Int}[(f\_)(x\_)^{\text{m\_}}*((a\_)+(c\_)(x\_)^{\text{n2\_}})^{\text{p\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + c*x^{2*\text{n}})^{\text{p}}, (f*x)^{\text{m}}*(d + e*x^{\text{n}})^{\text{q}}, x], x] /; \text{FreeQ}[\{a, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[\text{n2}, 2*\text{n}] \&\& \text{IGtQ}[\text{n}, 0] \&\& \text{IGtQ}[\text{q}, 0]$
1866.  $\text{Int}[(x\_)^{\text{m\_}}*((a\_)+(c\_)(x\_)^{\text{n2\_}})+(b\_)(x\_)^{\text{n\_}})^{\text{p\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(d + e/x^{\text{n}})^{\text{q}}*((a + b/x^{\text{n}} + c/x^{2*\text{n}})^{\text{p}}/x^{\text{m+2}}), x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d, e, p, q\}, x] \&\& \text{EqQ}[\text{n2}, 2*\text{n}] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[\text{n}, 0] \&\& \text{IntegerQ}[\text{m}]$
1867.  $\text{Int}[(x\_)^{\text{m\_}}*((a\_)+(c\_)(x\_)^{\text{n2\_}})^{\text{p\_}}*((d\_)+(e\_)(x\_)^{\text{n\_}})^{\text{q\_}}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(d + e/x^{\text{n}})^{\text{q}}*((a + c/x^{2*\text{n}})^{\text{p}}/x^{\text{m+2}}), x], x, 1/x] /; \text{FreeQ}[\{a, c, d, e, p, q\}, x] \&\& \text{EqQ}[\text{n2}, 2*\text{n}] \&\& \text{ILtQ}[\text{n}, 0] \&\& \text{IntegerQ}[\text{m}]$

1868.  $\text{Int}[(f \cdot x)^m \cdot ((a) + (c) \cdot x^{n2}) + (b) \cdot x^n)^p \cdot ((d) + (e) \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{With}[\{g = \text{Denominator}[m]\}, \text{Simp}[-g/f \text{ Subst}[\text{Int}[(d + e/(f^n \cdot x^{g \cdot n}))^q \cdot ((a + b/(f^n \cdot x^{g \cdot n})) + c/(f^{2n} \cdot x^{2g \cdot n}))^p/x^{g(m+1)+1}), x], x, 1/(f \cdot x)^{1/g}], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{FractionQ}[m]$
1869.  $\text{Int}[(f \cdot x)^m \cdot ((a) + (c) \cdot x^{n2})^p \cdot ((d) + (e) \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{With}[\{g = \text{Denominator}[m]\}, \text{Simp}[-g/f \text{ Subst}[\text{Int}[(d + e/(f^n \cdot x^{g \cdot n}))^q \cdot ((a + c/(f^{2n} \cdot x^{2g \cdot n}))^p/x^{g(m+1)+1}), x], x, 1/(f \cdot x)^{1/g}], x]] /; \text{FreeQ}[\{a, c, d, e, f, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{FractionQ}[m]$
1870.  $\text{Int}[(f \cdot x)^m \cdot ((a) + (c) \cdot x^{n2}) + (b) \cdot x^n)^p \cdot ((d) + (e) \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-f^{\text{IntPart}[m]}) \cdot (f \cdot x)^{\text{FracPart}[m]} \cdot x^{-1})^{\text{FracPart}[m]} \text{ Subst}[\text{Int}[(d + e/x^n)^q \cdot ((a + b/x^n + c/x^{2n})^p/x^{m+2}), x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{!RationalQ}[m]$
1871.  $\text{Int}[(f \cdot x)^m \cdot ((a) + (c) \cdot x^{n2})^p \cdot ((d) + (e) \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-f^{\text{IntPart}[m]}) \cdot (f \cdot x)^{\text{FracPart}[m]} \cdot x^{-1})^{\text{FracPart}[m]} \text{ Subst}[\text{Int}[(d + e/x^n)^q \cdot ((a + c/x^{2n})^p/x^{m+2}), x], x, 1/x], x] /; \text{FreeQ}[\{a, c, d, e, f, m, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{!RationalQ}[m]$
1872.  $\text{Int}[x^m \cdot ((a) + (c) \cdot x^{n2}) + (b) \cdot x^n)^p \cdot ((d) + (e) \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{With}[\{g = \text{Denominator}[n]\}, \text{Simp}[g \text{ Subst}[\text{Int}[x^{g(m+1)-1} \cdot (d + e \cdot x^{g \cdot n})^q \cdot (a + b \cdot x^{g \cdot n} + c \cdot x^{2g \cdot n})^p], x], x, x^{1/g}], x]] /; \text{FreeQ}[\{a, b, c, d, e, m, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \ \&\& \ \text{FractionQ}[n]$
1873.  $\text{Int}[x^m \cdot ((a) + (c) \cdot x^{n2})^p \cdot ((d) + (e) \cdot x^n)^q, x_{\text{Symbol}}] \rightarrow \text{With}[\{g = \text{Denominator}[n]\}, \text{Simp}[g \text{ Subst}[\text{Int}[x^{g(m+1)-1} \cdot (d + e \cdot x^{g \cdot n})^q \cdot (a + c \cdot x^{2g \cdot n})^p], x], x, x^{1/g}], x]] /; \text{FreeQ}[\{a, c, d, e, m, p, q\}, x] \ \&\& \ \text{EqQ}[n2, 2 \cdot n] \ \&\& \ \text{FractionQ}[n]$

1874.  $\text{Int}[\left((f\_)(x\_)^{(m\_)}\left((a\_)+(c\_)(x\_)^{(n2\_)}+(b\_)(x\_)^{(n\_)}\right)^{(p\_)}\right)\left((d\_)+(e\_)(x\_)^{(n\_)}\right)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]}\left(\frac{(f*x)^{\text{FracPart}[m]}}{x^{\text{FracPart}[m]}}\right) \text{Int}[x^m(d+e*x^n)^q(a+b*x^n+c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{FractionQ}[n]$
1875.  $\text{Int}[\left((f\_)(x\_)^{(m\_)}\left((a\_)+(c\_)(x\_)^{(n2\_)}\right)^{(p\_)}\right)\left((d\_)+(e\_)(x\_)^{(n\_)}\right)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]}\left(\frac{(f*x)^{\text{FracPart}[m]}}{x^{\text{FracPart}[m]}}\right) \text{Int}[x^m(d+e*x^n)^q(a+c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, m, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{FractionQ}[n]$
1876.  $\text{Int}[(x\_)^{(m\_)}\left((a\_)+(c\_)(x\_)^{(n2\_)}+(b\_)(x\_)^{(n\_)}\right)^{(p\_)}\left((d\_)+(e\_)(x\_)^{(n\_)}\right)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[1/(m+1) \text{Subst}[\text{Int}[(d+e*x^{\text{Simplify}[n/(m+1)])^q(a+b*x^{\text{Simplify}[n/(m+1)]+c*x^{\text{Simplify}[2*(n/(m+1))])^p, x], x, x^{(m+1)}], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& !\text{RationalQ}[n] \&\& \text{IntegerQ}[\text{Simplify}[n/(m+1)]] \&\& !\text{IntegerQ}[n]$
1877.  $\text{Int}[(x\_)^{(m\_)}\left((a\_)+(c\_)(x\_)^{(n2\_)}\right)^{(p\_)}\left((d\_)+(e\_)(x\_)^{(n\_)}\right)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[1/(m+1) \text{Subst}[\text{Int}[(d+e*x^{\text{Simplify}[n/(m+1)])^q(a+c*x^{\text{Simplify}[2*(n/(m+1))])^p, x], x, x^{(m+1)}], x] /; \text{FreeQ}\{a, c, d, e, m, n, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& !\text{RationalQ}[n] \&\& \text{IntegerQ}[\text{Simplify}[n/(m+1)]] \&\& !\text{IntegerQ}[n]$
1878.  $\text{Int}[\left((f\_)(x\_)^{(m\_)}\left((a\_)+(c\_)(x\_)^{(n2\_)}+(b\_)(x\_)^{(n\_)}\right)^{(p\_)}\right)\left((d\_)+(e\_)(x\_)^{(n\_)}\right)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]}\left(\frac{(f*x)^{\text{FracPart}[m]}}{x^{\text{FracPart}[m]}}\right) \text{Int}[x^m(d+e*x^n)^q(a+b*x^n+c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& !\text{RationalQ}[n] \&\& \text{IntegerQ}[\text{Simplify}[n/(m+1)]] \&\& !\text{IntegerQ}[n]$
1879.  $\text{Int}[\left((f\_)(x\_)^{(m\_)}\left((a\_)+(c\_)(x\_)^{(n2\_)}\right)^{(p\_)}\right)\left((d\_)+(e\_)(x\_)^{(n\_)}\right)^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]}\left(\frac{(f*x)^{\text{FracPart}[m]}}{x^{\text{FracPart}[m]}}\right) \text{Int}[x^m(d+e*x^n)^q(a+c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, m, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& !\text{RationalQ}[n] \&\& \text{IntegerQ}[n]$

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erQ[Simplify[n/(m + 1)]] && !IntegerQ[n]

1880. Int[(((f_.)*(x_))^(m_.)*((d_) + (e_.)*(x_)^(n_))^(q_))/((a_) + (c_.)*(
x_)^(n2_.) + (b_.)*(x_)^(n_)), x_Symbol] := With[{r = Rt[b^2 - 4*a*c,
2]}, Simp[2*(c/r) Int[(f*x)^m*((d + e*x^n)^q/(b - r + 2*c*x^n)), x],
x] - Simp[2*(c/r) Int[(f*x)^m*((d + e*x^n)^q/(b + r + 2*c*x^n)), x]
, x]] /; FreeQ[{a, b, c, d, e, f, m, n, q}, x] && EqQ[n2, 2*n] && NeQ[
b^2 - 4*a*c, 0] && !RationalQ[n]

1881. Int[(((f_.)*(x_))^(m_.)*((d_) + (e_.)*(x_)^(n_))^(q_))/((a_) + (c_.)*(
x_)^(n2_.)), x_Symbol] := With[{r = Rt[(-a)*c, 2]}, Simp[-c/(2*r) In
t[(f*x)^m*((d + e*x^n)^q/(r - c*x^n)), x], x] - Simp[c/(2*r) Int[(f*
x)^m*((d + e*x^n)^q/(r + c*x^n)), x], x]] /; FreeQ[{a, c, d, e, f, m,
n, q}, x] && EqQ[n2, 2*n] && !RationalQ[n]

1882. Int[(((f_.)*(x_))^(m_.)*((d_) + (e_.)*(x_)^(n_))*((a_) + (b_.)*(x_)^(n_
) + (c_.)*(x_)^(n2_))^(p_), x_Symbol] := Simp[(-(f*x)^(m + 1))*(a + b*
x^n + c*x^(2*n))^(p + 1)*((d*(b^2 - 2*a*c) - a*b*e + (b*d - 2*a*e)*c*x
^n)/(a*f*n*(p + 1)*(b^2 - 4*a*c))), x] + Simp[1/(a*n*(p + 1)*(b^2 - 4*
a*c)) Int[(f*x)^m*(a + b*x^n + c*x^(2*n))^(p + 1)*Simp[d*(b^2*(m + n
*(p + 1) + 1) - 2*a*c*(m + 2*n*(p + 1) + 1)) - a*b*e*(m + 1) + (m + n*
(2*p + 3) + 1)*(b*d - 2*a*e)*c*x^n, x], x], x] /; FreeQ[{a, b, c, d, e
, f, m, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && !RationalQ[n
] && ILtQ[p + 1, 0]

1883. Int[(((f_.)*(x_))^(m_.)*((d_) + (e_.)*(x_)^(n_))*((a_) + (c_.)*(x_)^(n2
_))^(p_), x_Symbol] := Simp[(-(f*x)^(m + 1))*(a + c*x^(2*n))^(p + 1)*
(d + e*x^n)/(2*a*f*n*(p + 1))), x] + Simp[1/(2*a*n*(p + 1)) Int[(f*x
)^m*(a + c*x^(2*n))^(p + 1)*Simp[d*(m + 2*n*(p + 1) + 1) + e*(m + n*(2
*p + 3) + 1)*x^n, x], x], x] /; FreeQ[{a, c, d, e, f, m, n}, x] && EqQ
[n2, 2*n] && !RationalQ[n] && ILtQ[p + 1, 0]

1884. Int[(((f_.)*(x_))^(m_.)*((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p
_)*((d_) + (e_.)*(x_)^(n_))^(q_.), x_Symbol] := Int[ExpandIntegrand[(
f*x)^m*(d + e*x^n)^q*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b,
c, d, e, f, m, n, p, q}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] &&
!RationalQ[n] && (IGtQ[p, 0] || IGtQ[q, 0])

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1885. $\text{Int}[(f_)(x_)^{(m_)}((a_)+(c_)(x_)^{(n2_}))^{(p_)}((d_)+(e_)(x_)^{(n_}))^{(q_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f*x)^m*(d+e*x^n)^q*(a+c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, c, d, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& !\text{RationalQ}[n] \&\& (\text{IGtQ}[p, 0] \parallel \text{IGtQ}[q, 0])$
1886. $\text{Int}[(f_)(x_)^{(m_)}((d_)+(e_)(x_)^{(n_}))^{(q_)}((a_)+(c_)(x_)^{(n2_}))^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^m/x^m \text{Int}[\text{ExpandIntegrand}[x^m*(a+c*x^{(2*n)})^p, (d/(d^2-e^2*x^{(2*n)})-e*(x^n/(d^2-e^2*x^{(2*n)})))]^{(-q)}, x], x] /; \text{FreeQ}\{a, c, d, e, f, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& !\text{RationalQ}[n] \&\& !\text{IntegerQ}[p] \&\& \text{ILtQ}[q, 0]$
1887. $\text{Int}[(f_)(x_)^{(m_)}((a_)+(c_)(x_)^{(n2_)}+(b_)(x_)^{(n_}))^{(p_)}((d_)+(e_)(x_)^{(n_}))^{(q_)}, x_Symbol] \rightarrow \text{Unintegrable}[(f*x)^m*(d+e*x^n)^q*(a+b*x^n+c*x^{(2*n)})^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n]$
1888. $\text{Int}[(f_)(x_)^{(m_)}((a_)+(c_)(x_)^{(n2_}))^{(p_)}((d_)+(e_)(x_)^{(n_}))^{(q_)}, x_Symbol] \rightarrow \text{Unintegrable}[(f*x)^m*(d+e*x^n)^q*(a+c*x^{(2*n)})^p, x] /; \text{FreeQ}\{a, c, d, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n]$
1889. $\text{Int}[(u_)^{(m_)}((a_)+(c_)(v_)^{(n2_)}+(b_)(v_)^{(n_}))^{(p_)}((d_)+(e_)(v_)^{(n_}))^{(q_)}, x_Symbol] \rightarrow \text{Simp}[u^m/(\text{Coefficient}[v, x, 1]*v^m) \text{Subst}[\text{Int}[x^m*(d+e*x^n)^q*(a+b*x^n+c*x^{(2*n)})^p, x], x, v], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{LinearPairQ}[u, v, x] \&\& \text{NeQ}[v, x]$
1890. $\text{Int}[(u_)^{(m_)}((a_)+(c_)(v_)^{(n2_}))^{(p_)}((d_)+(e_)(v_)^{(n_}))^{(q_)}, x_Symbol] \rightarrow \text{Simp}[u^m/(\text{Coefficient}[v, x, 1]*v^m) \text{Subst}[\text{Int}[x^m*(d+e*x^n)^q*(a+c*x^{(2*n)})^p, x], x, v], x] /; \text{FreeQ}\{a, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{LinearPairQ}[u, v, x] \&\& \text{NeQ}[v, x]$
1891. $\text{Int}[(x_)^{(m_)}((d_)+(e_)(x_)^{(mn_}))^{(q_)}((a_)+(b_)(x_)^{(n_)}+(c_)(x_)^{(n2_}))^{(p_)}, x_Symbol] \rightarrow \text{Int}[x^{(m-n*q)}*(e+d*x^n)^q*(a+b*x^n+c*x^{(2*n)})^p, x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\},$

- $x]$ && EqQ[n2, 2*n] && EqQ[mn, -n] && IntegerQ[q] && (PosQ[n] || !IntegerQ[p])
1892. Int[(x_)^(m_)*((d_) + (e_)*(x_)^(mn_))^(q_)*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :> Int[x^(m + mn*q)*(e + d/x^mn)^q*(a + c*x^n2)^p, x] /; FreeQ[{a, c, d, e, m, mn, p}, x] && EqQ[n2, -2*mn] && IntegerQ[q] && (PosQ[n2] || !IntegerQ[p])
1893. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(mn_) + (c_)*(x_)^(mn2_))^(p_)*((d_) + (e_)*(x_)^(n_))^(q_), x_Symbol] :> Int[x^(m - 2*n*p)*(d + e*x^n)^q*(c + b*x^n + a*x^(2*n))^p, x] /; FreeQ[{a, b, c, d, e, m, n, q}, x] && EqQ[mn, -n] && EqQ[mn2, 2*mn] && IntegerQ[p]
1894. Int[(x_)^(m_)*((a_) + (c_)*(x_)^(mn2_))^(p_)*((d_) + (e_)*(x_)^(n_))^(q_), x_Symbol] :> Int[x^(m - 2*n*p)*(d + e*x^n)^q*(c + a*x^(2*n))^p, x] /; FreeQ[{a, c, d, e, m, n, q}, x] && EqQ[mn2, -2*n] && IntegerQ[p]
1895. Int[(x_)^(m_)*((d_) + (e_)*(x_)^(mn_))^(q_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :> Simp[e^IntPart[q]*x^(n*FracPart[q])*(d + e/x^n)^FracPart[q]/(1 + d*(x^n/e))^FracPart[q]] Int[x^(m - n*q)*(1 + d*(x^n/e))^q*(a + b*x^n + c*x^(2*n))^p, x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && EqQ[n2, 2*n] && EqQ[mn, -n] && !IntegerQ[p] && !IntegerQ[q] && PosQ[n]
1896. Int[(x_)^(m_)*((d_) + (e_)*(x_)^(mn_))^(q_)*((a_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :> Simp[(e^IntPart[q]*((d + e*x^mn)^FracPart[q]/(1 + d*(1/(x^mn*e)))^FracPart[q]))/x^(mn*FracPart[q]) Int[x^(m + mn*q)*(1 + d*(1/(x^mn*e)))^q*(a + c*x^n2)^p, x] /; FreeQ[{a, c, d, e, m, mn, p, q}, x] && EqQ[n2, -2*mn] && !IntegerQ[p] && !IntegerQ[q] && PosQ[n2]
1897. Int[(x_)^(m_)*((a_) + (b_)*(x_)^(mn_) + (c_)*(x_)^(mn2_))^(p_)*((d_) + (e_)*(x_)^(n_))^(q_), x_Symbol] :> Simp[x^(2*n*FracPart[p])*((a + b/x^n + c/x^(2*n))^FracPart[p]/(c + b*x^n + a*x^(2*n))^FracPart[p]) Int[x^(m - 2*n*p)*(d + e*x^n)^q*(c + b*x^n + a*x^(2*n))^p, x] /; FreeQ[{a, b, c, d, e, m, n, p, q}, x] && EqQ[mn, -n] && EqQ[mn2,

$2*mn$] && !IntegerQ[p] && !IntegerQ[q] && PosQ[n]

1898. $\text{Int}[(x_)^{(m_.)}*((a_.) + (c_.)*(x_)^{(mn2_.)})^{(p_)}*((d_.) + (e_.)*(x_)^{(n_.)})^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(2*n*FracPart[p])}*((a + c/x^{(2*n)})^{FracPart[p]}) \text{Int}[x^{(m - 2*n*p)}*(d + e*x^n)^q*(c + a*x^{(2*n)})^p, x], x] /;$ FreeQ[{a, c, d, e, m, n, p, q}, x] && EqQ[mn2, -2*n] && !IntegerQ[p] && !IntegerQ[q] && PosQ[n]

1899. $\text{Int}[((f_)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^{(mn_.)})^{(q_.)}*((a_.) + (b_.)*(x_)^{(n_.)} + (c_.)*(x_)^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]}*((f*x)^{FracPart[m]}/x^{FracPart[m]}) \text{Int}[x^m*(d + e*x^{mn})^q*(a + b*x^n + c*x^{(2*n)})^p, x], x] /;$ FreeQ[{a, b, c, d, e, f, m, n, p, q}, x] && EqQ[n2, 2*n] && EqQ[mn, -n]

1900. $\text{Int}[((f_)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^{(mn_.)})^{(q_.)}*((a_.) + (c_.)*(x_)^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]}*((f*x)^{FracPart[m]}/x^{FracPart[m]}) \text{Int}[x^m*(d + e*x^{mn})^q*(a + c*x^{n2})^p, x], x] /;$ FreeQ[{a, c, d, e, f, m, mn, p, q}, x] && EqQ[n2, -2*mn]

1901. $\text{Int}[(x_)^{(m_.)}*((a_.) + (c_.)*(x_)^{(n_.)} + (b_.)*(x_)^{(mn_.)})^{(p_.)}*((d_.) + (e_.)*(x_)^{(n_.)})^{(q_.)}, x_Symbol] \rightarrow \text{Int}[x^{(m - n*p)}*(d + e*x^n)^q*(b + a*x^n + c*x^{(2*n)})^p, x] /;$ FreeQ[{a, b, c, d, e, m, n, q}, x] && EqQ[mn, -n] && IntegerQ[p]

1902. $\text{Int}[(x_)^{(m_.)}*((a_.) + (c_.)*(x_)^{(n_.)} + (b_.)*(x_)^{(mn_.)})^{(p_.)}*((d_.) + (e_.)*(x_)^{(n_.)})^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(n*FracPart[p])}*((a + b/x^n + c*x^n)^{FracPart[p]}/(b + a*x^n + c*x^{(2*n)})^{FracPart[p]}) \text{Int}[x^{(m - n*p)}*(d + e*x^n)^q*(b + a*x^n + c*x^{(2*n)})^p, x], x] /;$ FreeQ[{a, b, c, d, e, m, n, p, q}, x] && EqQ[mn, -n] && !IntegerQ[p]

1903. $\text{Int}[((f_)*(x_))^{(m_.)}*((a_.) + (c_.)*(x_)^{(n_.)} + (b_.)*(x_)^{(mn_.)})^{(p_.)}*((d_.) + (e_.)*(x_)^{(n_.)})^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[f^{\text{IntPart}[m]}*((f*x)^{FracPart[m]}/x^{FracPart[m]}) \text{Int}[x^m*(d + e*x^n)^q*(a + b/x^n + c*x^n)^p, x], x] /;$ FreeQ[{a, b, c, d, e, f, m, n, p, q}, x] && EqQ[mn, -n]

1904. $\text{Int}[(f_.)*(x_)]^{(m_)}*((d1_)+(e1_)*(x_)^{(non2_)})^{(q_)}*((d2_)+(e2_)*(x_)^{(non2_)})^{(q_)}*((a_)+(b_)*(x_)^{(n_)}+(c_)*(x_)^{(n2_)})^{(p_)}, x_Symbol] \rightarrow \text{Int}[(f*x)^m*(d1*d2 + e1*e2*x^n)^q*(a + b*x^n + c*x^{(2*n)})^p, x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f, n, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[non2, n/2] \&\& \text{EqQ}[d2*e1 + d1*e2, 0] \&\& (\text{IntegerQ}[q] \mid\mid (\text{GtQ}[d1, 0] \&\& \text{GtQ}[d2, 0]))$
1905. $\text{Int}[(f_.)*(x_)]^{(m_)}*((d1_)+(e1_)*(x_)^{(non2_)})^{(q_)}*((d2_)+(e2_)*(x_)^{(non2_)})^{(q_)}*((a_)+(b_)*(x_)^{(n_)}+(c_)*(x_)^{(n2_)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(d1 + e1*x^{(n/2)})^{\text{FracPart}[q]}*((d2 + e2*x^{(n/2)})^{\text{FracPart}[q]}/(d1*d2 + e1*e2*x^n)^{\text{FracPart}[q]}) \text{Int}[(f*x)^m*(d1*d2 + e1*e2*x^n)^q*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f, n, p, q\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[non2, n/2] \&\& \text{EqQ}[d2*e1 + d1*e2, 0]$
1906. $\text{Int}[(a_.)*(x_)]^{(j_)}+(b_.)*(x_)]^{(n_)]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(a*x^j + b*x^n)^{(p+1)}/(b*(n-j)*(p+1)*x^{(n-1)}), x] /; \text{FreeQ}\{a, b, j, n, p\}, x\} \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{EqQ}[j*p - n + j + 1, 0]$
1907. $\text{Int}[(a_.)*(x_)]^{(j_)}+(b_.)*(x_)]^{(n_)]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[-(a*x^j + b*x^n)^{(p+1)}/(a*(n-j)*(p+1)*x^{(j-1)}), x] + \text{Simp}[(n*p + n - j + 1)/(a*(n-j)*(p+1)) \text{Int}[(a*x^j + b*x^n)^{(p+1)}/x^j, x], x] /; \text{FreeQ}\{a, b, j, n\}, x\} \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{ILtQ}[\text{Simplify}[(n*p + n - j + 1)/(n - j)], 0] \&\& \text{LtQ}[p, -1]$
1908. $\text{Int}[(a_.)*(x_)]^{(j_)}+(b_.)*(x_)]^{(n_)]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(a*x^j + b*x^n)^{(p+1)}/(a*(j*p + 1)*x^{(j-1)}), x] - \text{Simp}[b*((n*p + n - j + 1)/(a*(j*p + 1))) \text{Int}[x^{(n-j)}*(a*x^j + b*x^n)^p, x], x] /; \text{FreeQ}\{a, b, j, n, p\}, x\} \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{ILtQ}[\text{Simplify}[(n*p + n - j + 1)/(n - j)], 0] \&\& \text{NeQ}[j*p + 1, 0]$
1909. $\text{Int}[(a_.)*(x_)]^{(j_)}+(b_.)*(x_)]^{(n_)]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[x*((a*x^j + b*x^n)^p/(j*p + 1)), x] - \text{Simp}[b*(n-j)*(p/(j*p + 1)) \text{Int}[x^n*(a*x^j + b*x^n)^{(p-1)}, x], x] /; \text{FreeQ}\{a, b\}, x\} \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[0, j, n] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[j*p + 1, 0]$

1910. $\text{Int}[(a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[x*((a*x^j + b*x^n)^p/(n*p + 1)), x] + \text{Simp}[a*(n - j)*(p/(n*p + 1)) \text{Int}[x^j*(a*x^j + b*x^n)^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{LtQ}[0, j, n] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{NeQ}[n*p + 1, 0]$
1911. $\text{Int}[(a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(a*x^j + b*x^n)^{(p + 1)}/(b*(n - j)*(p + 1)*x^{(n - 1)}), x] - \text{Simp}[(j*p - n + j + 1)/(b*(n - j)*(p + 1)) \text{Int}[(a*x^j + b*x^n)^{(p + 1)}/x^n, x], x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{LtQ}[0, j, n] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GtQ}[j*p + 1, n - j]$
1912. $\text{Int}[(a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[-(a*x^j + b*x^n)^{(p + 1)}/(a*(n - j)*(p + 1)*x^{(j - 1)}), x] + \text{Simp}[(n*p + n - j + 1)/(a*(n - j)*(p + 1)) \text{Int}[(a*x^j + b*x^n)^{(p + 1)}/x^j, x], x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{LtQ}[0, j, n] \ \&\& \ \text{LtQ}[p, -1]$
1913. $\text{Int}[(a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[x*((a*x^j + b*x^n)^p/(p*(n - j))), x] + \text{Simp}[a \text{Int}[x^j*(a*x^j + b*x^n)^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, j, n\}, x \ \&\& \ \text{IGtQ}[p + 1/2, 0] \ \&\& \ \text{NeQ}[n, j] \ \&\& \ \text{EqQ}[\text{Simplify}[j*p + 1], 0]$
1914. $\text{Int}[1/\text{Sqrt}[(a_.)(x_)^2 + (b_.)(x_)^{(n_.)}], x_Symbol] \rightarrow \text{Simp}[2/(2 - n) \text{Subst}[\text{Int}[1/(1 - a*x^2), x], x, x/\text{Sqrt}[a*x^2 + b*x^n]], x] /; \text{FreeQ}\{a, b, n\}, x \ \&\& \ \text{NeQ}[n, 2]$
1915. $\text{Int}[(a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[-(a*x^j + b*x^n)^{(p + 1)}/(a*(n - j)*(p + 1)*x^{(j - 1)}), x] + \text{Simp}[(n*p + n - j + 1)/(a*(n - j)*(p + 1)) \text{Int}[(a*x^j + b*x^n)^{(p + 1)}/x^j, x], x] /; \text{FreeQ}\{a, b, j, n\}, x \ \&\& \ \text{ILtQ}[p + 1/2, 0] \ \&\& \ \text{NeQ}[n, j] \ \&\& \ \text{EqQ}[\text{Simplify}[j*p + 1], 0]$
1916. $\text{Int}[1/\text{Sqrt}[(a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)}], x_Symbol] \rightarrow \text{Simp}[-2*(\text{Sqrt}[a*x^j + b*x^n]/(b*(n - 2)*x^{(n - 1)})), x] - \text{Simp}[a*((2*n - j - 2)/(b*(n - 2))) \text{Int}[1/(x^{(n - j)}*\text{Sqrt}[a*x^j + b*x^n]), x], x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ \text{LtQ}[2*(n - 1), j, n]$

1917. $\text{Int}[(a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)}]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(a*x \wedge j + b*x^n)^{\text{FracPart}[p]} / (x^{(j*\text{FracPart}[p])} * (a + b*x^{(n-j)})^{\text{FracPart}[p]}) \text{Int}[x^{(j*p)} * (a + b*x^{(n-j)})^p, x], x] /;$ $\text{FreeQ}\{a, b, j, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{PosQ}[n - j]$
1918. $\text{Int}[(a_.)(u_)^{(j_.)} + (b_.)(u_)^{(n_.)}]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[(a*x^j + b*x^n)^p, x], x, u], x] /;$ $\text{FreeQ}\{a, b, j, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
1919. $\text{Int}[(x_)^{(m_.)} * ((a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/n \text{Subst}[\text{Int}[(a*x^{\text{Simplify}[j/n]} + b*x)^p, x], x, x^n], x] /;$ $\text{FreeQ}\{a, b, j, m, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{IntegerQ}[\text{Simplify}[j/n]] \&\& \text{EqQ}[\text{Simplify}[m - n + 1], 0]$
1920. $\text{Int}[(c_.)(x_)^{(m_.)} * ((a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(-c^{(j-1)} * (c*x)^{(m-j+1)} * ((a*x^j + b*x^n)^{(p+1)} / (a*(n-j)*(p+1))), x] /;$ $\text{FreeQ}\{a, b, c, j, m, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{EqQ}[m + n*p + n - j + 1, 0] \&\& (\text{IntegerQ}[j] \parallel \text{GtQ}[c, 0])$
1921. $\text{Int}[(c_.)(x_)^{(m_.)} * ((a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(-c^{(j-1)} * (c*x)^{(m-j+1)} * ((a*x^j + b*x^n)^{(p+1)} / (a*(n-j)*(p+1))), x] + \text{Simp}[c^j * ((m + n*p + n - j + 1) / (a*(n-j)*(p+1))) \text{Int}[(c*x)^{(m-j)} * (a*x^j + b*x^n)^{(p+1)}, x], x] /;$ $\text{FreeQ}\{a, b, c, j, m, n\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{ILtQ}[\text{Simplify}[(m + n*p + n - j + 1) / (n - j)], 0] \&\& \text{LtQ}[p, -1] \&\& (\text{IntegerQ}[j] \parallel \text{GtQ}[c, 0])$
1922. $\text{Int}[(c_.)(x_)^{(m_.)} * ((a_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^{(j-1)} * (c*x)^{(m-j+1)} * ((a*x^j + b*x^n)^{(p+1)} / (a*(m + j*p + 1))), x] - \text{Simp}[b * ((m + n*p + n - j + 1) / (a*c^{(n-j)} * (m + j*p + 1))) \text{Int}[(c*x)^{(m+n-j)} * (a*x^j + b*x^n)^p, x], x] /;$ $\text{FreeQ}\{a, b, c, j, m, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{ILtQ}[\text{Simplify}[(m + n*p + n - j + 1) / (n - j)], 0] \&\& \text{NeQ}[m + j*p + 1, 0] \&\& (\text{IntegersQ}[j, n] \parallel \text{GtQ}[c, 0])$

1923. `Int[((c_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a*x^j + b*x^n)^p, x], x] /; FreeQ[{a, b, c, j, m, n, p}, x] && !IntegerQ[p] && NeQ[n, j] && ILtQ[Simplify[(m + n*p + n - j + 1)/(n - j)], 0]`
1924. `Int[(x_)^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a*x^Simplify[j/n] + b*x)^p, x], x, x^n], x] /; FreeQ[{a, b, j, m, n, p}, x] && !IntegerQ[p] && NeQ[n, j] && IntegerQ[Simplify[j/n]] && IntegerQ[Simplify[(m + 1)/n]] && NeQ[n^2, 1]`
1925. `Int[((c_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a*x^j + b*x^n)^p, x], x] /; FreeQ[{a, b, c, j, m, n, p}, x] && !IntegerQ[p] && NeQ[n, j] && IntegerQ[Simplify[j/n]] && IntegerQ[Simplify[(m + 1)/n]] && NeQ[n^2, 1]`
1926. `Int[((c_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(c*x)^(m + 1)*((a*x^j + b*x^n)^p/(c*(m + j*p + 1))), x] - Simp[b*p*(n - j)/(c^n*(m + j*p + 1)) Int[(c*x)^(m + n)*(a*x^j + b*x^n)^(p - 1), x], x] /; FreeQ[{a, b, c}, x] && !IntegerQ[p] && LtQ[0, j, n] && (IntegersQ[j, n] || GtQ[c, 0]) && GtQ[p, 0] && LtQ[m + j*p + 1, 0]`
1927. `Int[((c_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(c*x)^(m + 1)*((a*x^j + b*x^n)^p/(c*(m + n*p + 1))), x] + Simp[a*(n - j)*(p/(c^j*(m + n*p + 1))) Int[(c*x)^(m + j)*(a*x^j + b*x^n)^(p - 1), x], x] /; FreeQ[{a, b, c, m}, x] && !IntegerQ[p] && LtQ[0, j, n] && (IntegersQ[j, n] || GtQ[c, 0]) && GtQ[p, 0] && NeQ[m + n*p + 1, 0]`
1928. `Int[((c_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[c^(n - 1)*(c*x)^(m - n + 1)*((a*x^j + b*x^n)^(p + 1)/(b*(n - j)*(p + 1))), x] - Simp[c^n*(m + j*p - n + j + 1)/(b*(n - j)*(p + 1)) Int[(c*x)^(m - n)*(a*x^j + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, c}, x] && !IntegerQ[p] && LtQ[0, j, n] && (IntegersQ[j, n] || G`

tQ[c, 0]) && LtQ[p, -1] && GtQ[m + j*p + 1, n - j]

1929. Int[((c_.)*(x_))^(m_.)*((a_.)*(x_)^(j_.) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] :> Simp[(-c^(j - 1))*(c*x)^(m - j + 1)*((a*x^j + b*x^n)^(p + 1)/(a*(n - j)*(p + 1))), x] + Simp[c^j*((m + n*p + n - j + 1)/(a*(n - j)*(p + 1))) Int[(c*x)^(m - j)*(a*x^j + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, c, m}, x] && !IntegerQ[p] && LtQ[0, j, n] && (IntegersQ[j, n] || GtQ[c, 0]) && LtQ[p, -1]
1930. Int[((c_.)*(x_))^(m_.)*((a_.)*(x_)^(j_.) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] :> Simp[c^(n - 1)*(c*x)^(m - n + 1)*((a*x^j + b*x^n)^(p + 1)/(b*(m + n*p + 1))), x] - Simp[a*c^(n - j)*((m + j*p - n + j + 1)/(b*(m + n*p + 1))) Int[(c*x)^(m - (n - j))*(a*x^j + b*x^n)^p, x], x] /; FreeQ[{a, b, c, m, p}, x] && !IntegerQ[p] && LtQ[0, j, n] && (IntegersQ[j, n] || GtQ[c, 0]) && GtQ[m + j*p - n + j + 1, 0] && NeQ[m + n*p + 1, 0]
1931. Int[((c_.)*(x_))^(m_.)*((a_.)*(x_)^(j_.) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] :> Simp[c^(j - 1)*(c*x)^(m - j + 1)*((a*x^j + b*x^n)^(p + 1)/(a*(m + j*p + 1))), x] - Simp[b*((m + n*p + n - j + 1)/(a*c^(n - j)*(m + j*p + 1))) Int[(c*x)^(m + n - j)*(a*x^j + b*x^n)^p, x], x] /; FreeQ[{a, b, c, m, p}, x] && !IntegerQ[p] && LtQ[0, j, n] && (IntegersQ[j, n] || GtQ[c, 0]) && LtQ[m + j*p + 1, 0]
1932. Int[(x_)^(m_.)*((a_.)*(x_)^(j_.) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] :> Simp[1/(m + 1) Subst[Int[(a*x^Simplify[j/(m + 1)] + b*x^Simplify[n/(m + 1)])^p, x], x, x^(m + 1)], x] /; FreeQ[{a, b, j, m, n, p}, x] && !IntegerQ[p] && NeQ[n, j] && IntegerQ[Simplify[j/n]] && NeQ[m, -1] && IntegerQ[Simplify[n/(m + 1)]] && !IntegerQ[n]
1933. Int[((c_.)*(x_))^(m_.)*((a_.)*(x_)^(j_.) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] :> Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a*x^j + b*x^n)^p, x], x] /; FreeQ[{a, b, c, j, m, n, p}, x] && !IntegerQ[p] && NeQ[n, j] && IntegerQ[Simplify[j/n]] && NeQ[m, -1] && IntegerQ[Simplify[n/(m + 1)]] && !IntegerQ[n]

1934. $\text{Int}[(c \cdot x)^m \cdot ((a \cdot x)^j + (b \cdot x)^n)^p, x_Symbol] \rightarrow \text{Simp}[(c \cdot x)^{m+1} \cdot ((a \cdot x)^j + (b \cdot x)^n)^p / (c \cdot p \cdot (n - j)), x] + \text{Simp}[a/c^j \cdot \text{Int}[(c \cdot x)^{m+j} \cdot ((a \cdot x)^j + (b \cdot x)^n)^{p-1}, x], x] /;$ $\text{FreeQ}[\{a, b, c, j, m, n\}, x] \ \&\& \ \text{IGtQ}[p + 1/2, 0] \ \&\& \ \text{NeQ}[n, j] \ \&\& \ \text{EqQ}[\text{Simplify}[m + j \cdot p + 1], 0] \ \&\& \ (\text{IntegerQ}[j] \ || \ \text{GtQ}[c, 0])$
1935. $\text{Int}[x^m / \text{Sqrt}[(a \cdot x)^j + (b \cdot x)^n], x_Symbol] \rightarrow \text{Simp}[-2/(n - j) \cdot \text{Subst}[\text{Int}[1/(1 - a \cdot x^2), x], x, x^{(j/2)} / \text{Sqrt}[a \cdot x^j + b \cdot x^n]], x] /;$ $\text{FreeQ}[\{a, b, j, n\}, x] \ \&\& \ \text{EqQ}[m, j/2 - 1] \ \&\& \ \text{NeQ}[n, j]$
1936. $\text{Int}[(c \cdot x)^m \cdot ((a \cdot x)^j + (b \cdot x)^n)^p, x_Symbol] \rightarrow \text{Simp}[(-c^{(j-1)}) \cdot (c \cdot x)^{m-j+1} \cdot ((a \cdot x)^j + (b \cdot x)^n)^{p+1} / (a \cdot (n - j) \cdot (p + 1)), x] + \text{Simp}[c^j \cdot ((m + n \cdot p + n - j + 1) / (a \cdot (n - j) \cdot (p + 1))) \cdot \text{Int}[(c \cdot x)^{m-j} \cdot ((a \cdot x)^j + (b \cdot x)^n)^{p+1}, x], x] /;$ $\text{FreeQ}[\{a, b, c, j, m, n\}, x] \ \&\& \ \text{ILtQ}[p + 1/2, 0] \ \&\& \ \text{NeQ}[n, j] \ \&\& \ \text{EqQ}[\text{Simplify}[m + j \cdot p + 1], 0] \ \&\& \ (\text{IntegerQ}[j] \ || \ \text{GtQ}[c, 0])$
1937. $\text{Int}[(c \cdot x)^m \cdot ((a \cdot x)^j + (b \cdot x)^n)^p, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[m]} \cdot ((c \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \cdot \text{Int}[x^m \cdot ((a \cdot x)^j + (b \cdot x)^n)^p, x], x] /;$ $\text{FreeQ}[\{a, b, c, j, m, n, p\}, x] \ \&\& \ \text{IntegerQ}[p + 1/2] \ \&\& \ \text{NeQ}[n, j] \ \&\& \ \text{EqQ}[\text{Simplify}[m + j \cdot p + 1], 0]$
1938. $\text{Int}[(c \cdot x)^m \cdot ((a \cdot x)^j + (b \cdot x)^n)^p, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[m]} \cdot (c \cdot x)^{\text{FracPart}[m]} \cdot ((a \cdot x)^j + (b \cdot x)^n)^{\text{FracPart}[m]} \cdot \text{Int}[x^{(m + j \cdot p)} \cdot (a + b \cdot x^{(n - j)})^p, x], x] /;$ $\text{FreeQ}[\{a, b, c, j, m, n, p\}, x] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[n, j] \ \&\& \ \text{PosQ}[n - j]$
1939. $\text{Int}[u^m \cdot ((a \cdot v)^j + (b \cdot v)^n)^p, x_Symbol] \rightarrow \text{Simp}[u^m / (\text{Coefficient}[v, x, 1] \cdot v^m) \cdot \text{Subst}[\text{Int}[x^m \cdot ((a \cdot x)^j + (b \cdot x)^n)^p, x], x, v], x] /;$ $\text{FreeQ}[\{a, b, j, m, n, p\}, x] \ \&\& \ \text{LinearPairQ}[u, v, x]$
1940. $\text{Int}[x^m \cdot ((b \cdot x)^k + (a \cdot x)^j)^p \cdot ((c \cdot x)^n + (d \cdot x)^q), x_Symbol] \rightarrow \text{Simp}[1/n \cdot \text{Subst}[\text{Int}[x^{\text{Simplify}[m + 1/n] - 1} \cdot (a \cdot x^{\text{Simplify}[j/n]} + b \cdot x^{\text{Simplify}[k/n]})^p \cdot (c + d \cdot x)^q, x],$

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x, x^n], x] /; FreeQ[{a, b, c, d, j, k, m, n, p, q}, x] && !IntegerQ[
p] && NeQ[k, j] && IntegerQ[Simplify[j/n]] && IntegerQ[Simplify[k/n]]
&& IntegerQ[Simplify[(m + 1)/n]] && NeQ[n^2, 1]

1941. Int[((e_)*(x_))^(m_)*((c_) + (d_)*(x_)^(n_))^(q_)*((b_)*(x_)^(k_
) + (a_)*(x_)^(j_))^(p_), x_Symbol] := Simp[e^IntPart[m]*((e*x)^FracP
art[m]/x^FracPart[m]) Int[x^m*(a*x^j + b*x^k)^p*(c + d*x^n)^q, x], x
] /; FreeQ[{a, b, c, d, e, j, k, m, n, p, q}, x] && !IntegerQ[p] && N
eQ[k, j] && IntegerQ[Simplify[j/n]] && IntegerQ[Simplify[k/n]] && Inte
gerQ[Simplify[(m + 1)/n]] && NeQ[n^2, 1]

1942. Int[((e_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(jn_))^(p_)*((c
) + (d)*(x_)^(n_)), x_Symbol] := Simp[c*e^(j - 1)*(e*x)^(m - j + 1
)*((a*x^j + b*x^(j + n))^(p + 1)/(a*(m + j*p + 1))), x] /; FreeQ[{a, b
, c, d, e, j, m, n, p}, x] && EqQ[jn, j + n] && !IntegerQ[p] && NeQ[b
*c - a*d, 0] && EqQ[a*d*(m + j*p + 1) - b*c*(m + n + p*(j + n) + 1), 0
] && (GtQ[e, 0] || IntegersQ[j]) && NeQ[m + j*p + 1, 0]

1943. Int[((e_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(jn_))^(p_)*((c
) + (d)*(x_)^(n_)), x_Symbol] := Simp[(-e^(j - 1))*(b*c - a*d)*(e*
x)^(m - j + 1)*((a*x^j + b*x^(j + n))^(p + 1)/(a*b*n*(p + 1))), x] - S
imp[e^j*((a*d*(m + j*p + 1) - b*c*(m + n + p*(j + n) + 1))/(a*b*n*(p +
1))] Int[(e*x)^(m - j)*(a*x^j + b*x^(j + n))^(p + 1), x], x] /; Fre
eQ[{a, b, c, d, e, j, m, n}, x] && EqQ[jn, j + n] && !IntegerQ[p] &&
NeQ[b*c - a*d, 0] && LtQ[p, -1] && GtQ[j, 0] && LeQ[j, m] && (GtQ[e, 0
] || IntegerQ[j])

1944. Int[((e_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(jn_))^(p_)*((c
) + (d)*(x_)^(n_)), x_Symbol] := Simp[c*e^(j - 1)*(e*x)^(m - j + 1
)*((a*x^j + b*x^(j + n))^(p + 1)/(a*(m + j*p + 1))), x] + Simp[(a*d*(m
+ j*p + 1) - b*c*(m + n + p*(j + n) + 1))/(a*e^n*(m + j*p + 1)) Int
[(e*x)^(m + n)*(a*x^j + b*x^(j + n))^p, x], x] /; FreeQ[{a, b, c, d, e
, j, p}, x] && EqQ[jn, j + n] && !IntegerQ[p] && NeQ[b*c - a*d, 0] &&
GtQ[n, 0] && (LtQ[m + j*p, -1] || (IntegersQ[m - 1/2, p - 1/2] && LtQ
[p, 0] && LtQ[m, (-n)*p - 1])) && (GtQ[e, 0] || IntegersQ[j, n]) && Ne
Q[m + j*p + 1, 0] && NeQ[m - n + j*p + 1, 0]

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1945.  $\text{Int}[(e_{\_})*(x_{\_})^{(m_{\_})}*((a_{\_})*(x_{\_})^{(j_{\_})} + (b_{\_})*(x_{\_})^{(jn_{\_})})^{(p_{\_})}*((c_{\_}) + (d_{\_})*(x_{\_})^{(n_{\_})}), x\_Symbol] \rightarrow \text{Simp}[d*e^{(j-1)}*(e*x)^{(m-j+1)}*((a*x^j + b*x^{(j+n)})^{(p+1)}/(b*(m+n+p*(j+n)+1))), x] - \text{Simp}[(a*d*(m+j*p+1) - b*c*(m+n+p*(j+n)+1))/(b*(m+n+p*(j+n)+1)) \text{Int}[(e*x)^m*(a*x^j + b*x^{(j+n)})^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, j, m, n, p\}, x\} \ \&\& \ \text{EqQ}[jn, j+n] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[m+n+p*(j+n)+1, 0] \ \&\& \ (\text{GtQ}[e, 0] \ || \ \text{IntegerQ}[j])$
1946.  $\text{Int}[(x_{\_})^{(m_{\_})}*((c_{\_}) + (d_{\_})*(x_{\_})^{(n_{\_})})^{(q_{\_})}*((b_{\_})*(x_{\_})^{(k_{\_})} + (a_{\_})*(x_{\_})^{(j_{\_})})^{(p_{\_})}, x\_Symbol] \rightarrow \text{Simp}[1/(m+1) \text{Subst}[\text{Int}[(a*x^{\text{Simplify}[j/(m+1)]} + b*x^{\text{Simplify}[k/(m+1)])^p*(c + d*x^{\text{Simplify}[n/(m+1)])}]]^q, x], x, x^{(m+1)}], x] /;$   $\text{FreeQ}\{a, b, c, d, j, k, m, n, p, q\}, x\} \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[k, j] \ \&\& \ \text{IntegerQ}[\text{Simplify}[j/n]] \ \&\& \ \text{IntegerQ}[\text{Simplify}[k/n]] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{IntegerQ}[\text{Simplify}[n/(m+1)]] \ \&\& \ !\text{IntegerQ}[n]$
1947.  $\text{Int}[(e_{\_})*(x_{\_})^{(m_{\_})}*((c_{\_}) + (d_{\_})*(x_{\_})^{(n_{\_})})^{(q_{\_})}*((b_{\_})*(x_{\_})^{(k_{\_})} + (a_{\_})*(x_{\_})^{(j_{\_})})^{(p_{\_})}, x\_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}*(e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]} \text{Int}[x^m*(a*x^j + b*x^k)^p*(c + d*x^n)^q, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, j, k, m, n, p, q\}, x\} \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[k, j] \ \&\& \ \text{IntegerQ}[\text{Simplify}[j/n]] \ \&\& \ \text{IntegerQ}[\text{Simplify}[k/n]] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{IntegerQ}[\text{Simplify}[n/(m+1)]] \ \&\& \ !\text{IntegerQ}[n]$
1948.  $\text{Int}[(e_{\_})*(x_{\_})^{(m_{\_})}*((a_{\_})*(x_{\_})^{(j_{\_})} + (b_{\_})*(x_{\_})^{(jn_{\_})})^{(p_{\_})}*((c_{\_}) + (d_{\_})*(x_{\_})^{(n_{\_})})^{(q_{\_})}, x\_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}*(e*x)^{\text{FracPart}[m]}*((a*x^j + b*x^{(j+n)})^{\text{FracPart}[p]}/(x^{(\text{FracPart}[m] + j*\text{FracPart}[p])}*(a + b*x^n)^{\text{FracPart}[p]})) \text{Int}[x^{(m+j*p)}*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, j, m, n, p, q\}, x\} \ \&\& \ \text{EqQ}[jn, j+n] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ !(\text{EqQ}[n, 1] \ \&\& \ \text{EqQ}[j, 1])$
1949.  $\text{Int}[(b_{\_})*(x_{\_})^{(n_{\_})} + (a_{\_})*(x_{\_})^{(q_{\_})} + (c_{\_})*(x_{\_})^{(r_{\_})})^{(p_{\_})}, x\_Symbol] \rightarrow \text{Int}[x^{(p*q)}*(a + b*x^{(n-q)} + c*x^{(2*(n-q))})^p, x] /;$   $\text{FreeQ}\{a, b, c, n, q\}, x\} \ \&\& \ \text{EqQ}[r, 2*n - q] \ \&\& \ \text{PosQ}[n - q] \ \&\& \ \text{IntegerQ}[p]$

1950.  $\text{Int}[\text{Sqrt}[(b\_.)*(x\_.)^{(n\_.)} + (a\_.)*(x\_.)^{(q\_.)} + (c\_.)*(x\_.)^{(r\_.)}], x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[a*x^q + b*x^n + c*x^{(2*n - q)}]/(x^{(q/2)}*\text{Sqrt}[a + b*x^{(n - q)} + c*x^{(2*(n - q))})] \text{Int}[x^{(q/2)}*\text{Sqrt}[a + b*x^{(n - q)} + c*x^{(2*(n - q))}], x], x] /;$   $\text{FreeQ}\{a, b, c, n, q\}, x\} \ \&\& \ \text{EqQ}[r, 2*n - q] \ \&\& \ \text{PosQ}[n - q]$
1951.  $\text{Int}[1/\text{Sqrt}[(a\_.)*(x\_.)^2 + (b\_.)*(x\_.)^{(n\_.)} + (c\_.)*(x\_.)^{(r\_.)}], x\_Symbol] \rightarrow \text{Simp}[-2/(n - 2) \text{Subst}[\text{Int}[1/(4*a - x^2), x], x, x*((2*a + b*x^{(n - 2)})/\text{Sqrt}[a*x^2 + b*x^n + c*x^r])], x] /;$   $\text{FreeQ}\{a, b, c, n, r\}, x\} \ \&\& \ \text{EqQ}[r, 2*n - 2] \ \&\& \ \text{PosQ}[n - 2] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0]$
1952.  $\text{Int}[1/\text{Sqrt}[(b\_.)*(x\_.)^{(n\_.)} + (a\_.)*(x\_.)^{(q\_.)} + (c\_.)*(x\_.)^{(r\_.)}], x\_Symbol] \rightarrow \text{Simp}[x^{(q/2)}*(\text{Sqrt}[a + b*x^{(n - q)} + c*x^{(2*(n - q))})]/\text{Sqrt}[a*x^q + b*x^n + c*x^{(2*n - q)}] \text{Int}[1/(x^{(q/2)}*\text{Sqrt}[a + b*x^{(n - q)} + c*x^{(2*(n - q))})], x], x] /;$   $\text{FreeQ}\{a, b, c, n, q\}, x\} \ \&\& \ \text{EqQ}[r, 2*n - q] \ \&\& \ \text{PosQ}[n - q]$
1953.  $\text{Int}[((b\_.)*(x\_.)^{(n\_.)} + (a\_.)*(x\_.)^{(q\_.)} + (c\_.)*(x\_.)^{(r\_.)})^{(p\_.)}, x\_Symbol] \rightarrow \text{Simp}[x*((a*x^q + b*x^n + c*x^{(2*n - q)})^p/(p*(2*n - q) + 1)), x] + \text{Simp}[(n - q)*(p/(p*(2*n - q) + 1)) \text{Int}[x^q*(2*a + b*x^{(n - q)})*(a*x^q + b*x^n + c*x^{(2*n - q)})^{(p - 1)}, x], x] /;$   $\text{FreeQ}\{a, b, c, n, q\}, x\} \ \&\& \ \text{EqQ}[r, 2*n - q] \ \&\& \ \text{PosQ}[n - q] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{NeQ}[p*(2*n - q) + 1, 0]$
1954.  $\text{Int}[((b\_.)*(x\_.)^{(n\_.)} + (a\_.)*(x\_.)^{(q\_.)} + (c\_.)*(x\_.)^{(r\_.)})^{(p\_.)}, x\_Symbol] \rightarrow \text{Simp}[(-x^{(-q + 1)})*(b^2 - 2*a*c + b*c*x^{(n - q)})*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)/(a*(n - q)*(p + 1)*(b^2 - 4*a*c)}), x] + \text{Simp}[1/(a*(n - q)*(p + 1)*(b^2 - 4*a*c)) \text{Int}[(((p*q + 1)*(b^2 - 2*a*c) + (n - q)*(p + 1)*(b^2 - 4*a*c) + b*c*(p*q + (n - q)*(2*p + 3) + 1)*x^{(n - q)})*(a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/x^q, x], x] /;$   $\text{FreeQ}\{a, b, c, n, q\}, x\} \ \&\& \ \text{EqQ}[r, 2*n - q] \ \&\& \ \text{PosQ}[n - q] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{LtQ}[p, -1]$
1955.  $\text{Int}[((b\_.)*(x\_.)^{(n\_.)} + (a\_.)*(x\_.)^{(q\_.)} + (c\_.)*(x\_.)^{(r\_.)})^{(p\_.)}, x\_Symbol] \rightarrow \text{Simp}[(a*x^q + b*x^n + c*x^{(2*n - q)})^p/(x^{(p*q)}*(a + b*x^{(n - q)} + c*x^{(2*(n - q))})^p) \text{Int}[x^{(p*q)}*(a + b*x^{(n - q)} + c*x^{(2*(n - q))})^p, x], x] /;$   $\text{FreeQ}\{a, b, c, n, p, q\}, x\} \ \&\& \ \text{EqQ}[r, 2*n - q] \ \&\&$

- PosQ[n - q] && !IntegerQ[p]
1956.  $\text{Int}[(b \cdot x^{n_1}) + (a \cdot x^{q_1}) + (c \cdot x^{r_1})]^p, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(b \cdot x^n + c \cdot x^{2n - q} + a \cdot x^q)^p, x] /; \text{FreeQ}[\{a, b, c, n, p, q\}, x] \&\& \text{EqQ}[r, 2n - q]$
1957.  $\text{Int}[(b \cdot u^{n_1}) + (a \cdot u^{q_1}) + (c \cdot u^{r_1})]^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(a \cdot x^q + b \cdot x^n + c \cdot x^{2n - q})^p, x], x, u], x] /; \text{FreeQ}[\{a, b, c, n, p, q\}, x] \&\& \text{EqQ}[r, 2n - q] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
1958.  $\text{Int}[x^{m_1} \cdot ((b \cdot x^{n_1}) + (a \cdot x^{q_1}) + (c \cdot x^{r_1}))^p, x_{\text{Symbol}}] \rightarrow \text{Int}[x^m \cdot (a + b + c) \cdot x^n]^p, x] /; \text{FreeQ}[\{a, b, c, m, n, p\}, x] \&\& \text{EqQ}[q, n] \&\& \text{EqQ}[r, n]$
1959.  $\text{Int}[x^{m_1} \cdot ((b \cdot x^{n_1}) + (a \cdot x^{q_1}) + (c \cdot x^{r_1}))^p, x_{\text{Symbol}}] \rightarrow \text{Int}[x^{m + p \cdot q} \cdot (a + b \cdot x^{n - q} + c \cdot x^{2(n - q)})^p, x] /; \text{FreeQ}[\{a, b, c, m, n, q\}, x] \&\& \text{EqQ}[r, 2n - q] \&\& \text{IntegerQ}[p] \&\& \text{PosQ}[n - q]$
1960.  $\text{Int}[x^{m_1} / \text{Sqrt}[(b \cdot x^{n_1}) + (a \cdot x^{q_1}) + (c \cdot x^{r_1})], x_{\text{Symbol}}] \rightarrow \text{Simp}[-2/(n - q) \text{ Subst}[\text{Int}[1/(4 \cdot a - x^2), x], x, x^{m + 1} \cdot ((2 \cdot a + b \cdot x^{n - q}) / \text{Sqrt}[a \cdot x^q + b \cdot x^n + c \cdot x^r])], x] /; \text{FreeQ}[\{a, b, c, m, n, q, r\}, x] \&\& \text{EqQ}[r, 2n - q] \&\& \text{PosQ}[n - q] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{EqQ}[m, q/2 - 1]$
1961.  $\text{Int}[x^{m_1} / \text{Sqrt}[(b \cdot x^{n_1}) + (a \cdot x^{q_1}) + (c \cdot x^{r_1})], x_{\text{Symbol}}] \rightarrow \text{Simp}[x^{q/2} \cdot (\text{Sqrt}[a + b \cdot x^{n - q} + c \cdot x^{2(n - q)})] / \text{Sqrt}[a \cdot x^q + b \cdot x^n + c \cdot x^{2n - q}] \text{ Int}[x^{m - q/2} / \text{Sqrt}[a + b \cdot x^{n - q} + c \cdot x^{2(n - q)}], x], x] /; \text{FreeQ}[\{a, b, c, m, n, q\}, x] \&\& \text{EqQ}[r, 2n - q] \&\& \text{PosQ}[n - q] \&\& ((\text{EqQ}[m, 1] \&\& \text{EqQ}[n, 3] \&\& \text{EqQ}[q, 2]) \|\| ((\text{EqQ}[m + 1/2] \|\| \text{EqQ}[m, 3/2] \|\| \text{EqQ}[m, 1/2] \|\| \text{EqQ}[m, 5/2]) \&\& \text{EqQ}[n, 3] \&\& \text{EqQ}[q, 1]))$
1962.  $\text{Int}[x^{m_1} / ((b \cdot x^{n_1}) + (a \cdot x^{q_1}) + (c \cdot x^{r_1}))^{3/2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2 \cdot x^{(n - 1)/2} \cdot (b + 2 \cdot c \cdot x) / (b^2 - 4 \cdot a \cdot c$

- $$\text{)*Sqrt}[a*x^{(n-1)} + b*x^n + c*x^{(n+1)}]), x] /; \text{FreeQ}[\{a, b, c, n\}, x] \ \&\& \ \text{EqQ}[m, 3*((n-1)/2)] \ \&\& \ \text{EqQ}[q, n-1] \ \&\& \ \text{EqQ}[r, n+1] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0]$$
1963.  $\text{Int}[(x_)^{(m_.)}/((b_.)*(x_)^{(n_.)} + (a_.)*(x_)^{(q_.)} + (c_.)*(x_)^{(r_.)})^{(3/2)}, x\_Symbol] \rightarrow \text{Simp}[x^{((n-1)/2)*((4*a + 2*b*x)/(b^2 - 4*a*c)*\text{Sqrt}[a*x^{(n-1)} + b*x^n + c*x^{(n+1)}])}], x] /; \text{FreeQ}[\{a, b, c, n\}, x] \ \&\& \ \text{EqQ}[m, (3*n-1)/2] \ \&\& \ \text{EqQ}[q, n-1] \ \&\& \ \text{EqQ}[r, n+1] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0]$
1964.  $\text{Int}[(x_)^{(m_.)}*((b_.)*(x_)^{(n_.)} + (a_.)*(x_)^{(q_.)} + (c_.)*(x_)^{(r_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m-n)*((a*x^{(n-1)} + b*x^n + c*x^{(n+1)})^{(p+1)/(2*c*(p+1))})}], x] - \text{Simp}[b/(2*c) \ \text{Int}[x^{(m-1)*(a*x^{(n-1)} + b*x^n + c*x^{(n+1)})^p}], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[r, 2*n-q] \ \&\& \ \text{PosQ}[n-q] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{RationalQ}[m, p, q] \ \&\& \ \text{EqQ}[m + p*(n-1) - 1, 0]$
1965.  $\text{Int}[(x_)^{(m_.)}*((b_.)*(x_)^{(n_.)} + (a_.)*(x_)^{(q_.)} + (c_.)*(x_)^{(r_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m-n+q+1)*(b+2*c*x^{(n-q)})*((a*x^q + b*x^n + c*x^{(2*n-q)})^p/(2*c*(n-q)*(2*p+1))}], x] - \text{Simp}[p*((b^2 - 4*a*c)/(2*c*(2*p+1))) \ \text{Int}[x^{(m+q)*(a*x^q + b*x^n + c*x^{(2*n-q)})^{(p-1)}], x], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[r, 2*n-q] \ \&\& \ \text{PosQ}[n-q] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{RationalQ}[m, q] \ \&\& \ \text{EqQ}[m + p*q + 1, n - q]$
1966.  $\text{Int}[(x_)^{(m_.)}*((b_.)*(x_)^{(n_.)} + (a_.)*(x_)^{(q_.)} + (c_.)*(x_)^{(r_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m-n+q+1)*(b*(n-q)*p + c*(m+p*q + (n-q)*(2*p-1) + 1)*x^{(n-q)})*((a*x^q + b*x^n + c*x^{(2*n-q)})^p/(c*(m+p*(2*n-q) + 1)*(m+p*q + (n-q)*(2*p-1) + 1))}], x] + \text{Simp}[(n-q)*(p/(c*(m+p*(2*n-q) + 1)*(m+p*q + (n-q)*(2*p-1) + 1))) \ \text{Int}[x^{(m-(n-2*q))*\text{Simp}[(-a)*b*(m+p*q-n+q+1) + (2*a*c*(m+p*q + (n-q)*(2*p-1) + 1) - b^2*(m+p*q + (n-q)*(p-1) + 1)*x^{(n-q)}], x]*(a*x^q + b*x^n + c*x^{(2*n-q)})^{(p-1)}], x], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[r, 2*n-q] \ \&\& \ \text{PosQ}[n-q] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{RationalQ}[m, q] \ \&\& \ \text{GtQ}[m + p*q + 1, n - q] \ \&\& \ \text{NeQ}[m + p*(2*n-q) + 1, 0] \ \&\& \ \text{NeQ}[m + p*q + (n-q)*(2*p-1) + 1, 0]$

1967.  $\text{Int}[(x_)^{(m_.)}*((b_.)*(x_)^{(n_.)} + (a_.)*(x_)^{(q_.)} + (c_.)*(x_)^{(r_.)})^{(p_.)}, x\_Symbol] := \text{Simp}[x^{(m+1)}*((a*x^q + b*x^n + c*x^{(2*n-q)})^p / (m+p*q+1)), x] - \text{Simp}[(n-q)*(p/(m+p*q+1)) \text{Int}[x^{(m+n)}*(b + 2*c*x^{(n-q)})*(a*x^q + b*x^n + c*x^{(2*n-q)})^{(p-1)}, x], x] /;$   
 $\text{FreeQ}\{a, b, c\}, x] \ \&\& \ \text{EqQ}[r, 2*n-q] \ \&\& \ \text{PosQ}[n-q] \ \&\& \ \text{!IntegerQ}[p]$   
 $\ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{RationalQ}[m, q]$   
 $\ \&\& \ \text{LeQ}[m+p*q+1, -(n-q)+1] \ \&\& \ \text{NeQ}[m+p*q+1, 0]$
1968.  $\text{Int}[(x_)^{(m_.)}*((b_.)*(x_)^{(n_.)} + (a_.)*(x_)^{(q_.)} + (c_.)*(x_)^{(r_.)})^{(p_.)}, x\_Symbol] := \text{Simp}[x^{(m+1)}*((a*x^q + b*x^n + c*x^{(2*n-q)})^p / (m+p*(2*n-q)+1)), x] + \text{Simp}[(n-q)*(p/(m+p*(2*n-q)+1)) \text{Int}[x^{(m+q)}*(2*a + b*x^{(n-q)})*(a*x^q + b*x^n + c*x^{(2*n-q)})^{(p-1)}, x], x] /;$   
 $\text{FreeQ}\{a, b, c\}, x] \ \&\& \ \text{EqQ}[r, 2*n-q] \ \&\& \ \text{PosQ}[n-q]$   
 $\ \&\& \ \text{!IntegerQ}[p] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{RationalQ}[m, q]$   
 $\ \&\& \ \text{GtQ}[m+p*q+1, -(n-q)] \ \&\& \ \text{NeQ}[m+p*(2*n-q)+1, 0]$
1969.  $\text{Int}[(x_)^{(m_.)}*((b_.)*(x_)^{(n_.)} + (a_.)*(x_)^{(q_.)} + (c_.)*(x_)^{(r_.)})^{(p_.)}, x\_Symbol] := \text{Simp}[(-x^{(m-q+1)})*(b^2 - 2*a*c + b*c*x^{(n-q)})*((a*x^q + b*x^n + c*x^{(2*n-q)})^{(p+1)} / (a*(n-q)*(p+1)*(b^2 - 4*a*c))), x] + \text{Simp}[(2*a*c - b^2*(p+2)) / (a*(p+1)*(b^2 - 4*a*c)) \text{Int}[x^{(m-q)}*(a*x^q + b*x^n + c*x^{(2*n-q)})^{(p+1)}, x], x] /;$   
 $\text{FreeQ}\{a, b, c\}, x] \ \&\& \ \text{EqQ}[r, 2*n-q] \ \&\& \ \text{PosQ}[n-q] \ \&\& \ \text{!IntegerQ}[p] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0]$   
 $\ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{RationalQ}[m, p, q] \ \&\& \ \text{EqQ}[m+p*q+1, -(n-q)*(2*p+3)]$
1970.  $\text{Int}[(x_)^{(m_.)}*((b_.)*(x_)^{(n_.)} + (a_.)*(x_)^{(q_.)} + (c_.)*(x_)^{(r_.)})^{(p_.)}, x\_Symbol] := \text{Simp}[(-x^{(m-2*n+q+1)})*(2*a + b*x^{(n-q)})*((a*x^q + b*x^n + c*x^{(2*n-q)})^{(p+1)} / ((n-q)*(p+1)*(b^2 - 4*a*c))), x] + \text{Simp}[1 / ((n-q)*(p+1)*(b^2 - 4*a*c)) \text{Int}[x^{(m-2*n+q)}*(2*a*(m+p*q - 2*(n-q)+1) + b*(m+p*q + (n-q)*(2*p+1)+1)*x^{(n-q)}*(a*x^q + b*x^n + c*x^{(2*n-q)})^{(p+1)}, x], x] /;$   
 $\text{FreeQ}\{a, b, c\}, x] \ \&\& \ \text{EqQ}[r, 2*n-q] \ \&\& \ \text{PosQ}[n-q] \ \&\& \ \text{!IntegerQ}[p] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0]$   
 $\ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{RationalQ}[m, q] \ \&\& \ \text{GtQ}[m+p*q+1, 2*(n-q)]$

1971.  $\text{Int}[(x_)^{(m_.)}*((b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)} + (c_.)(x_)^{(r_.)})^{(p_.)}, x\_Symbol] := \text{Simp}[(-x^{(m - q + 1)})*(b^2 - 2*a*c + b*c*x^{(n - q)})*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/(a*(n - q)*(p + 1)*(b^2 - 4*a*c)), x] + \text{Simp}[1/(a*(n - q)*(p + 1)*(b^2 - 4*a*c)) \text{Int}[x^{(m - q)}*(b^2*(m + p*q + (n - q)*(p + 1) + 1) - 2*a*c*(m + p*q + 2*(n - q)*(p + 1) + 1) + b*c*(m + p*q + (n - q)*(2*p + 3) + 1)*x^{(n - q)}*(a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{PosQ}[n - q] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{RationalQ}[m, q] \&\& \text{LtQ}[m + p*q + 1, n - q]$
1972.  $\text{Int}[(x_)^{(m_.)}*((b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)} + (c_.)(x_)^{(r_.)})^{(p_.)}, x\_Symbol] := \text{Simp}[x^{(m - n + 1)}*(b + 2*c*x^{(n - q)})*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/((n - q)*(p + 1)*(b^2 - 4*a*c)), x] - \text{Simp}[1/((n - q)*(p + 1)*(b^2 - 4*a*c)) \text{Int}[x^{(m - n)}*(b*(m + p*q - n + q + 1) + 2*c*(m + p*q + 2*(n - q)*(p + 1) + 1)*x^{(n - q)}*(a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{PosQ}[n - q] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{RationalQ}[m, q] \&\& \text{LtQ}[n - q, m + p*q + 1, 2*(n - q)]$
1973.  $\text{Int}[(x_)^{(m_.)}*((b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)} + (c_.)(x_)^{(r_.)})^{(p_.)}, x\_Symbol] := \text{Simp}[x^{(m - 2*n + q + 1)}*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/(2*c*(n - q)*(p + 1)), x] - \text{Simp}[b/(2*c) \text{Int}[x^{(m - n + q)}*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{PosQ}[n - q] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GeQ}[p, -1] \&\& \text{LtQ}[p, 0] \&\& \text{RationalQ}[m, q] \&\& \text{EqQ}[m + p*q + 1, 2*(n - q)]$
1974.  $\text{Int}[(x_)^{(m_.)}*((b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)} + (c_.)(x_)^{(r_.)})^{(p_.)}, x\_Symbol] := \text{Simp}[(-x^{(m - q + 1)})*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/(2*a*(n - q)*(p + 1)), x] - \text{Simp}[b/(2*a) \text{Int}[x^{(m + n - q)}*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{PosQ}[n - q] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GeQ}[p, -1] \&\& \text{LtQ}[p, 0] \&\& \text{RationalQ}[m, q] \&\& \text{EqQ}[m + p*q + 1, -2*(n - q)*(p + 1)]$

1975.  $\text{Int}[(x_)^{(m_.)}*((b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)} + (c_.)(x_)^{(r_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m - 2*n + q + 1)}*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/(c*(m + p*q + 2*(n - q)*p + 1))], x] - \text{Simp}[1/(c*(m + p*q + 2*(n - q)*p + 1)) \text{Int}[x^{(m - 2*(n - q))}*(a*(m + p*q - 2*(n - q) + 1) + b*(m + p*q + (n - q)*(p - 1) + 1)*x^{(n - q)})*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{PosQ}[n - q] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GeQ}[p, -1] \&\& \text{LtQ}[p, 0] \&\& \text{RationalQ}[m, q] \&\& \text{GtQ}[m + p*q + 1, 2*(n - q)]$
1976.  $\text{Int}[(x_)^{(m_.)}*((b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)} + (c_.)(x_)^{(r_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m - q + 1)}*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/(a*(m + p*q + 1))], x] - \text{Simp}[1/(a*(m + p*q + 1)) \text{Int}[x^{(m + n - q)}*(b*(m + p*q + (n - q)*(p + 1) + 1) + c*(m + p*q + 2*(n - q)*(p + 1) + 1)*x^{(n - q)})*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{PosQ}[n - q] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GeQ}[p, -1] \&\& \text{LtQ}[p, 0] \&\& \text{RationalQ}[m, q] \&\& \text{LtQ}[m + p*q + 1, 0]$
1977.  $\text{Int}[(x_)^{(m_.)}*((b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)} + (c_.)(x_)^{(r_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(a*x^q + b*x^n + c*x^{(2*n - q)})^p/(x^{(p*q)}*(a + b*x^{(n - q)} + c*x^{(2*(n - q))})^p) \text{Int}[x^{(m + p*q)}*(a + b*x^{(n - q)} + c*x^{(2*(n - q))})^p, x], x] /; \text{FreeQ}\{a, b, c, m, n, p, q\}, x] \&\& \text{EqQ}[r, 2*n - q] \&\& !\text{IntegerQ}[p] \&\& \text{PosQ}[n - q]$
1978.  $\text{Int}[(u_)^{(m_.)}*((b_.)(u_)^{(n_.)} + (a_.)(u_)^{(q_.)} + (c_.)(u_)^{(r_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[x^m*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x, u], x] /; \text{FreeQ}\{a, b, c, m, n, p, q\}, x] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
1979.  $\text{Int}[((c_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)})^{(p_.)}*((A_) + (B_.)(x_)^{(r_.)}), x\_Symbol] \rightarrow \text{Int}[x^{(p*q)}*(A + B*x^{(n - q)})*(a + b*x^{(n - q)} + c*x^{(2*(n - q))})^p, x] /; \text{FreeQ}\{a, b, c, A, B, n, q\}, x] \&\& \text{EqQ}[r, n - q] \&\& \text{EqQ}[j, 2*n - q] \&\& \text{IntegerQ}[p] \&\& \text{PosQ}[n - q]$
1980.  $\text{Int}[((A_) + (B_.)(x_)^{(j_.)})/\text{Sqrt}[(b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)} + (c_.)(x_)^{(r_.)}], x\_Symbol] \rightarrow \text{Simp}[x^{(q/2)}*(\text{Sqrt}[a + b*x^{(n - q)}]$

$$+ c*x^{(2*(n - q))}/\text{Sqrt}[a*x^q + b*x^n + c*x^{(2*n - q)}] \quad \text{Int}[(A + B*x^{(n - q)})/(x^{(q/2)}*\text{Sqrt}[a + b*x^{(n - q)} + c*x^{(2*(n - q))}], x], x] /;$$

FreeQ[{a, b, c, A, B, n, q}, x] && EqQ[j, n - q] && EqQ[r, 2\*n - q] && PosQ[n - q] && EqQ[n, 3] && EqQ[q, 2]

1981. Int[((c\_.)\*(x\_)^(j\_.) + (b\_.)\*(x\_)^(n\_.) + (a\_.)\*(x\_)^(q\_.))^(p\_.)\*((A\_.) + (B\_.)\*(x\_)^(r\_.)), x\_Symbol] := Simp[x\*(b\*B\*(n - q)\*p + A\*c\*(p\*q + (n - q)\*(2\*p + 1) + 1) + B\*c\*(p\*(2\*n - q) + 1)\*x^(n - q))\*((a\*x^q + b\*x^n + c\*x^(2\*n - q))^p/(c\*(p\*(2\*n - q) + 1)\*(p\*q + (n - q)\*(2\*p + 1) + 1))), x] + Simp[(n - q)\*(p/(c\*(p\*(2\*n - q) + 1)\*(p\*q + (n - q)\*(2\*p + 1) + 1))) Int[x^q\*(2\*a\*A\*c\*(p\*q + (n - q)\*(2\*p + 1) + 1) - a\*b\*B\*(p\*q + 1) + (2\*a\*B\*c\*(p\*(2\*n - q) + 1) + A\*b\*c\*(p\*q + (n - q)\*(2\*p + 1) + 1) - b^2\*B\*(p\*q + (n - q)\*p + 1))\*x^(n - q))\*(a\*x^q + b\*x^n + c\*x^(2\*n - q))^(p - 1), x], x] /; FreeQ[{a, b, c, A, B, n, q}, x] && EqQ[r, n - q] && EqQ[j, 2\*n - q] && !IntegerQ[p] && NeQ[b^2 - 4\*a\*c, 0] && GtQ[p, 0] && NeQ[p\*(2\*n - q) + 1, 0] && NeQ[p\*q + (n - q)\*(2\*p + 1) + 1, 0]

1982. Int[((c\_.)\*(x\_)^(j\_.) + (a\_.)\*(x\_)^(q\_.))^(p\_.)\*((A\_.) + (B\_.)\*(x\_)^(r\_.)), x\_Symbol] := With[{n = q + r}, Simp[x\*(A\*(p\*q + (n - q)\*(2\*p + 1) + 1) + B\*(p\*(2\*n - q) + 1)\*x^(n - q))\*((a\*x^q + c\*x^(2\*n - q))^p/((p\*(2\*n - q) + 1)\*(p\*q + (n - q)\*(2\*p + 1) + 1))), x] + Simp[(n - q)\*(p/((p\*(2\*n - q) + 1)\*(p\*q + (n - q)\*(2\*p + 1) + 1))) Int[x^q\*(2\*a\*A\*(p\*q + (n - q)\*(2\*p + 1) + 1) + (2\*a\*B\*(p\*(2\*n - q) + 1))\*x^(n - q))\*(a\*x^q + c\*x^(2\*n - q))^(p - 1), x], x] /; EqQ[j, 2\*n - q] && NeQ[p\*(2\*n - q) + 1, 0] && NeQ[p\*q + (n - q)\*(2\*p + 1) + 1, 0] /; FreeQ[{a, c, A, B, q}, x] && !IntegerQ[p] && GtQ[p, 0]

1983. Int[((c\_.)\*(x\_)^(j\_.) + (b\_.)\*(x\_)^(n\_.) + (a\_.)\*(x\_)^(q\_.))^(p\_.)\*((A\_.) + (B\_.)\*(x\_)^(r\_.)), x\_Symbol] := Simp[(-x^(-q + 1))\*(A\*b^2 - a\*b\*B - 2\*a\*A\*c + (A\*b - 2\*a\*B)\*c\*x^(n - q))\*((a\*x^q + b\*x^n + c\*x^(2\*n - q))^(p + 1)/(a\*(n - q)\*(p + 1)\*(b^2 - 4\*a\*c))), x] + Simp[1/(a\*(n - q)\*(p + 1)\*(b^2 - 4\*a\*c)) Int[((A\*b^2\*(p\*q + (n - q)\*(p + 1) + 1) - a\*b\*B\*(p\*q + 1) - 2\*a\*A\*c\*(p\*q + 2\*(n - q)\*(p + 1) + 1) + (p\*q + (n - q)\*(2\*p + 3) + 1)\*(A\*b - 2\*a\*B)\*c\*x^(n - q))\*(a\*x^q + b\*x^n + c\*x^(2\*n - q))^(p + 1))/x^q, x], x] /; FreeQ[{a, b, c, A, B, n, q}, x] && EqQ[r, n - q] && EqQ[j, 2\*n - q] && !IntegerQ[p] && NeQ[b^2 - 4\*a\*c, 0] && LtQ[p, -1]



1984.  $\text{Int}[(c_.)*(x_.)^{(j_.)} + (a_.)*(x_.)^{(q_.)})^{(p_.)}*((A_.) + (B_.)*(x_.)^{(r_.)})]$   $\rightarrow$   $\text{With}[\{n = q + r\}, \text{Simp}[(-x^{(-q + 1)})*(a*A*c + a*B*c*x^{(n - q)})*(a*x^q + c*x^{(2*n - q)})^{(p + 1)}/(a*(n - q)*(p + 1)*(2*a*c))]$ ,  $x]$   $+ \text{Simp}[1/(a*(n - q)*(p + 1)*(2*a*c)) \text{Int}[(a*A*c*(p*q + 2*(n - q)*(p + 1) + 1) + a*B*c*(p*q + (n - q)*(2*p + 3) + 1)*x^{(n - q)})*(a*x^q + c*x^{(2*n - q)})^{(p + 1)}/x^q, x]$ ,  $x]$   $;/; \text{EqQ}[j, 2*n - q]$   $;/; \text{FreeQ}[\{a, c, A, B, q\}, x]$   $\&\& !\text{IntegerQ}[p]$   $\&\& \text{LtQ}[p, -1]$
1985.  $\text{Int}[(A_.) + (B_.)*(x_.)^{(j_.)})*((b_.)*(x_.)^{(n_.)} + (a_.)*(x_.)^{(q_.)} + (c_.)*(x_.)^{(r_.)})^{(p_.)}$ ,  $x\_Symbol]$   $\rightarrow$   $\text{Unintegrable}[(A + B*x^{(n - q)})*(b*x^n + c*x^{(2*n - q)} + a*x^q)^p, x]$   $;/; \text{FreeQ}[\{a, b, c, A, B, n, p, q\}, x]$   $\&\& \text{EqQ}[j, n - q]$   $\&\& \text{EqQ}[r, 2*n - q]$
1986.  $\text{Int}[(A_.) + (B_.)*(u_.)^{(j_.)})*((b_.)*(u_.)^{(n_.)} + (a_.)*(u_.)^{(q_.)} + (c_.)*(u_.)^{(r_.)})^{(p_.)}$ ,  $x\_Symbol]$   $\rightarrow$   $\text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[(A + B*x^{(n - q)})*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x, u]$ ,  $x]$   $;/; \text{FreeQ}[\{a, b, c, A, B, n, p, q\}, x]$   $\&\& \text{EqQ}[j, n - q]$   $\&\& \text{EqQ}[r, 2*n - q]$   $\&\& \text{LinearQ}[u, x]$   $\&\& \text{NeQ}[u, x]$
1987.  $\text{Int}[(x_.)^{(m_.)}*((c_.)*(x_.)^{(j_.)} + (b_.)*(x_.)^{(n_.)} + (a_.)*(x_.)^{(q_.)})^{(p_.)}*((A_.) + (B_.)*(x_.)^{(r_.)})]$ ,  $x\_Symbol]$   $\rightarrow$   $\text{Int}[x^{(m + p*q)}*(A + B*x^{(n - q)})*(a + b*x^{(n - q)} + c*x^{(2*(n - q))})^p, x]$   $;/; \text{FreeQ}[\{a, b, c, A, B, m, n, q\}, x]$   $\&\& \text{EqQ}[r, n - q]$   $\&\& \text{EqQ}[j, 2*n - q]$   $\&\& \text{IntegerQ}[p]$   $\&\& \text{PosQ}[n - q]$
1988.  $\text{Int}[(x_.)^{(m_.)}*((c_.)*(x_.)^{(j_.)} + (b_.)*(x_.)^{(n_.)} + (a_.)*(x_.)^{(q_.)})^{(p_.)}*((A_.) + (B_.)*(x_.)^{(r_.)})]$ ,  $x\_Symbol]$   $\rightarrow$   $\text{Simp}[x^{(m + 1)}*(A*(m + p*q + (n - q)*(2*p + 1) + 1) + B*(m + p*q + 1)*x^{(n - q)})*((a*x^q + b*x^n + c*x^{(2*n - q)})^p/((m + p*q + 1)*(m + p*q + (n - q)*(2*p + 1) + 1)))]$ ,  $x]$   $+ \text{Simp}[(n - q)*(p/((m + p*q + 1)*(m + p*q + (n - q)*(2*p + 1) + 1)))] \text{Int}[x^{(n + m)}*\text{Simp}[2*a*B*(m + p*q + 1) - A*b*(m + p*q + (n - q)*(2*p + 1) + 1) + (b*B*(m + p*q + 1) - 2*A*c*(m + p*q + (n - q)*(2*p + 1) + 1))*x^{(n - q)}, x]*(a*x^q + b*x^n + c*x^{(2*n - q)})^{(p - 1)}, x]$ ,  $x]$   $;/; \text{FreeQ}[\{a, b, c, A, B\}, x]$   $\&\& \text{EqQ}[r, n - q]$   $\&\& \text{EqQ}[j, 2*n - q]$   $\&\& !\text{IntegerQ}[p]$   $\&\& \text{NeQ}[b^2 - 4*a*c, 0]$   $\&\& \text{IGtQ}[n, 0]$   $\&\& \text{GtQ}[p, 0]$   $\&\& \text{RationalQ}[m, q]$   $\&\& \text{LeQ}[m + p*q, -(n - q)]$   $\&\& \text{NeQ}[m + p*q + 1, 0]$   $\&\& \text{NeQ}[m + p*q + 1, 0]$

$$Q[m + p*q + (n - q)*(2*p + 1) + 1, 0]$$

1989. `Int[(x_)^(m_.)*((c_.)*(x_)^(j_.) + (a_.)*(x_)^(q_.))^(p_.)*((A_) + (B_.)*(x_)^(r_.)), x_Symbol] := With[{n = q + r}, Simp[x^(m + 1)*(A*(m + p*q + (n - q)*(2*p + 1) + 1) + B*(m + p*q + 1)*x^(n - q))*((a*x^q + c*x^(2*n - q))^p/((m + p*q + 1)*(m + p*q + (n - q)*(2*p + 1) + 1))), x] + Simp[2*(n - q)*(p/((m + p*q + 1)*(m + p*q + (n - q)*(2*p + 1) + 1)))] Int[x^(n + m)*Simp[a*B*(m + p*q + 1) - A*c*(m + p*q + (n - q)*(2*p + 1) + 1)*x^(n - q), x]*(a*x^q + c*x^(2*n - q))^(p - 1), x], x] /; EqQ[j, 2*n - q] && IGtQ[n, 0] && LeQ[m + p*q, -(n - q)] && NeQ[m + p*q + 1, 0] && NeQ[m + p*q + (n - q)*(2*p + 1) + 1, 0]] /; FreeQ[{a, c, A, B}, x] && !IntegerQ[p] && RationalQ[m, p, q] && GtQ[p, 0]`

1990. `Int[(x_)^(m_.)*((c_.)*(x_)^(j_.) + (b_.)*(x_)^(n_.) + (a_.)*(x_)^(q_.))^(p_.)*((A_) + (B_.)*(x_)^(r_.)), x_Symbol] := Simp[x^(m - n + 1)*(A*b - 2*a*B - (b*B - 2*A*c)*x^(n - q))*((a*x^q + b*x^n + c*x^(2*n - q))^(p + 1)/((n - q)*(p + 1)*(b^2 - 4*a*c))), x] + Simp[1/((n - q)*(p + 1)*(b^2 - 4*a*c))] Int[x^(m - n)*Simp[(m + p*q - n + q + 1)*(2*a*B - A*b) + (m + p*q + 2*(n - q)*(p + 1) + 1)*(b*B - 2*A*c)*x^(n - q), x]*(a*x^q + b*x^n + c*x^(2*n - q))^(p + 1), x], x] /; FreeQ[{a, b, c, A, B}, x] && EqQ[r, n - q] && EqQ[j, 2*n - q] && !IntegerQ[p] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && LtQ[p, -1] && RationalQ[m, q] && GtQ[m + p*q, n - q - 1]`

1991. `Int[(x_)^(m_.)*((c_.)*(x_)^(j_.) + (a_.)*(x_)^(q_.))^(p_.)*((A_) + (B_.)*(x_)^(r_.)), x_Symbol] := With[{n = q + r}, Simp[x^(m - n + 1)*(a*B - A*c*x^(n - q))*((a*x^q + c*x^(2*n - q))^(p + 1)/(2*a*c*(n - q)*(p + 1))), x] - Simp[1/(2*a*c*(n - q)*(p + 1))] Int[x^(m - n)*Simp[a*B*(m + p*q - n + q + 1) - A*c*(m + p*q + (n - q)*2*(p + 1) + 1)*x^(n - q), x]*(a*x^q + c*x^(2*n - q))^(p + 1), x], x] /; EqQ[j, 2*n - q] && IGtQ[n, 0] && m + p*q > n - q - 1 /; FreeQ[{a, c, A, B}, x] && !IntegerQ[p] && RationalQ[m, q] && LtQ[p, -1]`

1992. `Int[(x_)^(m_.)*((c_.)*(x_)^(j_.) + (b_.)*(x_)^(n_.) + (a_.)*(x_)^(q_.))^(p_.)*((A_) + (B_.)*(x_)^(r_.)), x_Symbol] := Simp[x^(m + 1)*(b*B*(n - q)*p + A*c*(m + p*q + (n - q)*(2*p + 1) + 1) + B*c*(m + p*q + 2*(n - q)*p + 1)*x^(n - q))*((a*x^q + b*x^n + c*x^(2*n - q))^p/(c*(m + p*(2`

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(n - q) + 1)(m + p*q + (n - q)*(2*p + 1) + 1))), x] + Simp[(n - q)*(p
/(c*(m + p*(2*n - q) + 1)*(m + p*q + (n - q)*(2*p + 1) + 1))) Int[x^
(m + q)*Simp[2*a*A*c*(m + p*q + (n - q)*(2*p + 1) + 1) - a*b*B*(m + p*
q + 1) + (2*a*B*c*(m + p*q + 2*(n - q)*p + 1) + A*b*c*(m + p*q + (n -
q)*(2*p + 1) + 1) - b^2*B*(m + p*q + (n - q)*p + 1))*x^(n - q), x]*(a*
x^q + b*x^n + c*x^(2*n - q))^(p - 1), x], x] /; FreeQ[{a, b, c, A, B},
x] && EqQ[r, n - q] && EqQ[j, 2*n - q] && !IntegerQ[p] && NeQ[b^2 -
4*a*c, 0] && IGtQ[n, 0] && GtQ[p, 0] && RationalQ[m, q] && GtQ[m + p*q
, -(n - q) - 1] && NeQ[m + p*(2*n - q) + 1, 0] && NeQ[m + p*q + (n - q
)*(2*p + 1) + 1, 0]

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1993.  $\text{Int}[(x_)^{(m_.)}*((c_.)(x_)^{(j_.)} + (a_.)(x_)^{(q_.)})^{(p_.)}*((A_) + (B_.)(x_)^{(r_.)})]$ , x\_Symbol] := With[{n = q + r}, Simp[x^(m + 1)\*(A\*(m + p\*q + (n - q)\*(2\*p + 1) + 1) + B\*(m + p\*q + 2\*(n - q)\*p + 1)\*x^(n - q))\*((a\*x^q + c\*x^(2\*n - q))^p/((m + p\*(2\*n - q) + 1)\*(m + p\*q + (n - q)\*(2\*p + 1) + 1))), x] + Simp[(n - q)\*(p/((m + p\*(2\*n - q) + 1)\*(m + p\*q + (n - q)\*(2\*p + 1) + 1))) Int[x^(m + q)\*Simp[2\*a\*A\*(m + p\*q + (n - q)\*(2\*p + 1) + 1) + 2\*a\*B\*(m + p\*q + 2\*(n - q)\*p + 1)\*x^(n - q), x]\*(a\*x^q + c\*x^(2\*n - q))^(p - 1), x], x] /; EqQ[j, 2\*n - q] && IGtQ[n, 0] && GtQ[m + p\*q, -(n - q)] && NeQ[m + p\*q + 2\*(n - q)\*p + 1, 0] && NeQ[m + p\*q + (n - q)\*(2\*p + 1) + 1, 0] && NeQ[m + 1, n]] /; FreeQ[{a, c, A, B}, x] && !IntegerQ[p] && RationalQ[m, q] && GtQ[p, 0]

1994.  $\text{Int}[(x_)^{(m_.)}*((c_.)(x_)^{(j_.)} + (b_.)(x_)^{(n_.)} + (a_.)(x_)^{(q_.)})^{(p_.)}*((A_) + (B_.)(x_)^{(r_.)})]$ , x\_Symbol] := Simp[(-x^(m - q + 1))\*(A\*b^2 - a\*b\*B - 2\*a\*A\*c + (A\*b - 2\*a\*B)\*c\*x^(n - q))\*((a\*x^q + b\*x^n + c\*x^(2\*n - q))^(p + 1)/(a\*(n - q)\*(p + 1)\*(b^2 - 4\*a\*c))), x] + Simp[1/(a\*(n - q)\*(p + 1)\*(b^2 - 4\*a\*c)) Int[x^(m - q)\*Simp[A\*b^2\*(m + p\*q + (n - q)\*(p + 1) + 1) - a\*b\*B\*(m + p\*q + 1) - 2\*a\*A\*c\*(m + p\*q + 2\*(n - q)\*(p + 1) + 1) + (m + p\*q + (n - q)\*(2\*p + 3) + 1)\*(A\*b - 2\*a\*B)\*c\*x^(n - q), x]\*(a\*x^q + b\*x^n + c\*x^(2\*n - q))^(p + 1), x], x] /; FreeQ[{a, b, c, A, B}, x] && EqQ[r, n - q] && EqQ[j, 2\*n - q] && !IntegerQ[p] && NeQ[b^2 - 4\*a\*c, 0] && IGtQ[n, 0] && LtQ[p, -1] && RationalQ[m, q] && m + p\*q < n - q - 1

1995.  $\text{Int}[(x_)^{(m_.)}*((c_.)(x_)^{(j_.)} + (a_.)(x_)^{(q_.)})^{(p_.)}*((A_) + (B_.)(x_)^{(r_.)})]$ , x\_Symbol] := With[{n = q + r}, Simp[(-x^(m - q + 1))\*(A\*c + B\*c\*x^(n - q))\*((a\*x^q + c\*x^(2\*n - q))^(p + 1)/(2\*a\*c\*(n - q)\*(

- $$p + 1))), x] + \text{Simp}[1/(2*a*c*(n - q)*(p + 1)) \text{Int}[x^{(m - q)}*\text{Simp}[A*c*(m + p*q + 2*(n - q)*(p + 1) + 1) + B*(m + p*q + (n - q)*(2*p + 3) + 1)*c*x^{(n - q)}, x]*(a*x^q + c*x^{(2*n - q)})^{(p + 1)}, x], x] /; \text{EqQ}[j, 2*n - q] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[m + p*q, n - q - 1] /; \text{FreeQ}[\{a, c, A, B\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{RationalQ}[m, q] \&\& \text{LtQ}[p, -1]$$
1996. 
$$\text{Int}[(x\_)^{(m\_)}*((c\_)*(x\_)^{(j\_)} + (b\_)*(x\_)^{(n\_)} + (a\_)*(x\_)^{(q\_)})^{(p\_)}*((A\_)+(B\_)*(x\_)^{(r\_)}), x\_Symbol] :> \text{Simp}[B*x^{(m - n + 1)}*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/(c*(m + p*q + (n - q)*(2*p + 1) + 1)), x] - \text{Simp}[1/(c*(m + p*q + (n - q)*(2*p + 1) + 1)) \text{Int}[x^{(m - n + q)}*\text{Simp}[a*B*(m + p*q - n + q + 1) + (b*B*(m + p*q + (n - q)*p + 1) - A*c*(m + p*q + (n - q)*(2*p + 1) + 1))*x^{(n - q)}, x]*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x] /; \text{FreeQ}[\{a, b, c, A, B\}, x] \&\& \text{EqQ}[r, n - q] \&\& \text{EqQ}[j, 2*n - q] \&\& \text{!IntegerQ}[p] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{GeQ}[p, -1] \&\& \text{LtQ}[p, 0] \&\& \text{RationalQ}[m, q] \&\& \text{GeQ}[m + p*q, n - q - 1] \&\& \text{NeQ}[m + p*q + (n - q)*(2*p + 1) + 1, 0]$$
1997. 
$$\text{Int}[(x\_)^{(m\_)}*((c\_)*(x\_)^{(j\_)} + (a\_)*(x\_)^{(q\_)})^{(p\_)}*((A\_)+(B\_)*(x\_)^{(r\_)}), x\_Symbol] :> \text{With}[\{n = q + r\}, \text{Simp}[B*x^{(m - n + 1)}*((a*x^q + c*x^{(2*n - q)})^{(p + 1)})/(c*(m + p*q + (n - q)*(2*p + 1) + 1)), x] - \text{Simp}[1/(c*(m + p*q + (n - q)*(2*p + 1) + 1)) \text{Int}[x^{(m - n + q)}*\text{Simp}[a*B*(m + p*q - n + q + 1) - A*c*(m + p*q + (n - q)*(2*p + 1) + 1))*x^{(n - q)}, x]*(a*x^q + c*x^{(2*n - q)})^p, x], x] /; \text{EqQ}[j, 2*n - q] \&\& \text{IGtQ}[n, 0] \&\& \text{GeQ}[m + p*q, n - q - 1] \&\& \text{NeQ}[m + p*q + (n - q)*(2*p + 1) + 1, 0] /; \text{FreeQ}[\{a, c, A, B\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{RationalQ}[m, p, q] \&\& \text{GeQ}[p, -1] \&\& \text{LtQ}[p, 0]$$
1998. 
$$\text{Int}[(x\_)^{(m\_)}*((c\_)*(x\_)^{(j\_)} + (b\_)*(x\_)^{(n\_)} + (a\_)*(x\_)^{(q\_)})^{(p\_)}*((A\_)+(B\_)*(x\_)^{(r\_)}), x\_Symbol] :> \text{Simp}[A*x^{(m - q + 1)}*((a*x^q + b*x^n + c*x^{(2*n - q)})^{(p + 1)})/(a*(m + p*q + 1)), x] + \text{Simp}[1/(a*(m + p*q + 1)) \text{Int}[x^{(m + n - q)}*\text{Simp}[a*B*(m + p*q + 1) - A*b*(m + p*q + (n - q)*(p + 1) + 1) - A*c*(m + p*q + 2*(n - q)*(p + 1) + 1))*x^{(n - q)}, x]*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x] /; \text{FreeQ}[\{a, b, c, A, B\}, x] \&\& \text{EqQ}[r, n - q] \&\& \text{EqQ}[j, 2*n - q] \&\& \text{!IntegerQ}[p] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{RationalQ}[m, p, q] \&\& ((\text{GeQ}[p, -1] \&\& \text{LtQ}[p, 0]) || \text{EqQ}[m + p*q + (n - q)*(2*p + 1) + 1, 0]) \&\& \text{LeQ}[m + p*q, -(n - q)] \&\& \text{NeQ}[m + p*q + 1, 0]$$

1999.  $\text{Int}[(x\_)^{(m\_)}*((c\_)*(x\_)^{(j\_)} + (a\_)*(x\_)^{(q\_)})^{(p\_)}*((A\_)+(B\_)*(x\_)^{(r\_)}), x\_Symbol] := \text{With}[\{n = q + r\}, \text{Simp}[A*x^{(m - q + 1)}*((a*x^q + c*x^{(2*n - q)})^{(p + 1)})/(a*(m + p*q + 1))], x] + \text{Simp}[1/(a*(m + p*q + 1)) \text{Int}[x^{(m + n - q)}*\text{Simp}[a*B*(m + p*q + 1) - A*c*(m + p*q + 2*(n - q)*(p + 1) + 1)*x^{(n - q)}, x]*(a*x^q + c*x^{(2*n - q)})^p, x], x] /; \text{EqQ}[j, 2*n - q] \&\& \text{IGtQ}[n, 0] \&\& ((\text{GeQ}[p, -1] \&\& \text{LtQ}[p, 0]) || \text{EqQ}[m + p*q + (n - q)*(2*p + 1) + 1, 0]) \&\& \text{LeQ}[m + p*q, -(n - q)] \&\& \text{NeQ}[m + p*q + 1, 0]] /; \text{FreeQ}[\{a, c, A, B\}, x] \&\& !\text{IntegerQ}[p] \&\& \text{RationalQ}[m, p, q]$
2000.  $\text{Int}[(x\_)^{(m\_)}*((A\_)+(B\_)*(x\_)^{(j\_)}))/\text{Sqrt}[(b\_)*(x\_)^{(n\_)} + (a\_)*(x\_)^{(q\_)} + (c\_)*(x\_)^{(r\_)}], x\_Symbol] := \text{Simp}[x^{(q/2)}*(\text{Sqrt}[a + b*x^{(n - q)} + c*x^{(2*(n - q))}]/\text{Sqrt}[a*x^q + b*x^n + c*x^{(2*n - q)}]) \text{Int}[x^{(m - q/2)}*((A + B*x^{(n - q)})/\text{Sqrt}[a + b*x^{(n - q)} + c*x^{(2*(n - q))})], x], x] /; \text{FreeQ}[\{a, b, c, A, B, m, n, q\}, x] \&\& \text{EqQ}[j, n - q] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{PosQ}[n - q] \&\& (\text{EqQ}[m, 1/2] || \text{EqQ}[m, -2^{(-1)}]) \&\& \text{EqQ}[n, 3] \&\& \text{EqQ}[q, 1]$
2001.  $\text{Int}[(x\_)^{(m\_)}*((a\_)*(x\_)^{(j\_)} + (b\_)*(x\_)^{(k\_)} + (c\_)*(x\_)^{(n\_)})^{(p\_)}*((A\_)+(B\_)*(x\_)^{(q\_)}), x\_Symbol] := \text{Simp}[(a*x^j + b*x^k + c*x^n)^p/(x^{(j*p)}*(a + b*x^{(k - j)} + c*x^{(2*(k - j))})^p) \text{Int}[x^{(m + j*p)}*(A + B*x^{(k - j)})*(a + b*x^{(k - j)} + c*x^{(2*(k - j))})^p, x], x] /; \text{FreeQ}[\{a, b, c, A, B, j, k, m, p\}, x] \&\& \text{EqQ}[q, k - j] \&\& \text{EqQ}[n, 2*k - j] \&\& !\text{IntegerQ}[p] \&\& \text{PosQ}[k - j]$
2002.  $\text{Int}[(u\_)^{(m\_)}*((A\_)+(B\_)*(u\_)^{(j\_)}))*((b\_)*(u\_)^{(n\_)} + (a\_)*(u\_)^{(q\_)} + (c\_)*(u\_)^{(r\_)})^{(p\_)}, x\_Symbol] := \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{Subst}[\text{Int}[x^m*(A + B*x^{(n - q)})*(a*x^q + b*x^n + c*x^{(2*n - q)})^p, x], x, u], x] /; \text{FreeQ}[\{a, b, c, A, B, m, n, p, q\}, x] \&\& \text{EqQ}[j, n - q] \&\& \text{EqQ}[r, 2*n - q] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
2003.  $\text{Int}[(u\_)*((c\_)+(d\_)*(x\_))^{(n\_)}*((a\_)+(b\_)*(x\_)^2)^{(p\_)}, x\_Symbol] := \text{Int}[u*(c + d*x)^{(n + p)}*(a/c + (b/d)*x)^p, x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \&\& \text{EqQ}[b*c^2 + a*d^2, 0] \&\& (\text{IntegerQ}[p] || (\text{GtQ}[a, 0] \&\& \text{GtQ}[c, 0] \&\& !\text{IntegerQ}[n]))$

2004. `Int[(u_)*((d_) + (e_)*(x_))^(q_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Int[u*(d + e*x)^(p + q)*(a/d + (c/e)*x)^p, x] /; FreeQ[{a, b, c, d, e, q}, x] && EqQ[c*d^2 - b*d*e + a*e^2, 0] && IntegerQ[p]`
2005. `Int[(Fx_)*(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Int[x^(m + n*p)*(b + a/x^n)^p*Fx, x] /; FreeQ[{a, b, m, n}, x] && IntegerQ[p] && NegQ[n]`
2006. `Int[(u_)*(Px_), x_Symbol] := With[{a = Rt[Coeff[Px, x, 0], Expon[Px, x]], b = Rt[Coeff[Px, x, Expon[Px, x]], Expon[Px, x]]}, Int[u*(a + b*x)^Expon[Px, x], x] /; EqQ[Px, (a + b*x)^Expon[Px, x]] /; PolyQ[Px, x] && GtQ[Expon[Px, x], 1] && NeQ[Coeff[Px, x, 0], 0] && !MatchQ[Px, (a_)*(v_)^Expon[Px, x] /; FreeQ[a, x] && LinearQ[v, x]]`
2007. `Int[(u_)*(Px_)^(p_), x_Symbol] := With[{a = Rt[Coeff[Px, x, 0], Expon[Px, x]], b = Rt[Coeff[Px, x, Expon[Px, x]], Expon[Px, x]]}, Int[u*(a + b*x)^(Expon[Px, x]*p), x] /; EqQ[Px, (a + b*x)^Expon[Px, x]] /; IntegerQ[p] && PolyQ[Px, x] && GtQ[Expon[Px, x], 1] && NeQ[Coeff[Px, x, 0], 0]`
2008. `Int[(u_)*(Px_)^(p_), x_Symbol] := With[{a = Rt[Coeff[Px, x, 0], Expon[Px, x]], b = Rt[Coeff[Px, x, Expon[Px, x]], Expon[Px, x]]}, Simp[((a + b*x)^Expon[Px, x])^p/(a + b*x)^(Expon[Px, x]*p) Int[u*(a + b*x)^(Expon[Px, x]*p), x], x] /; EqQ[Px, (a + b*x)^Expon[Px, x]] /; !IntegerQ[p] && PolyQ[Px, x] && GtQ[Expon[Px, x], 1] && NeQ[Coeff[Px, x, 0], 0]`
2009. `Int[u_, x_Symbol] := Simp[IntSum[u, x], x] /; SumQ[u]`
2010. `Int[(u_)*((c_)*(x_))^(m_), x_Symbol] := Int[ExpandIntegrand[(c*x)^m*u, x], x] /; FreeQ[{c, m}, x] && SumQ[u] && !LinearQ[u, x] && !MatchQ[u, (a_) + (b_)*(v_) /; FreeQ[{a, b}, x] && InverseFunctionQ[v]]`
2011. `Int[(u_)*((a_) + (b_)*(v_))^(m_)*((c_) + (d_)*(v_))^(n_), x_Symbol] := Simp[(b/d)^m Int[u*(c + d*v)^(m + n), x], x] /; FreeQ[{a, b, c`

- , d, n}, x] && EqQ[b\*c - a\*d, 0] && IntegerQ[m] && (!IntegerQ[n] || S  
implerQ[c + d\*x, a + b\*x])
2012. Int[(u\_.)\*((a\_) + (b\_.)\*(v\_))^(m\_)\*((c\_) + (d\_.)\*(v\_))^(n\_), x\_Symbol]  
:> Simp[(b/d)^m Int[u\*(c + d\*v)^(m + n), x], x] /; FreeQ[{a, b, c,  
d, m, n}, x] && EqQ[b\*c - a\*d, 0] && GtQ[b/d, 0] && !(IntegerQ[m] ||  
IntegerQ[n])
2013. Int[(u\_.)\*((a\_) + (b\_.)\*(v\_))^(m\_)\*((c\_) + (d\_.)\*(v\_))^(n\_), x\_Symbol]  
:> Simp[(a + b\*v)^m/(c + d\*v)^m Int[u\*(c + d\*v)^(m + n), x], x] /;  
FreeQ[{a, b, c, d, m, n}, x] && EqQ[b\*c - a\*d, 0] && !(IntegerQ[m] ||  
IntegerQ[n] || GtQ[b/d, 0])
2014. Int[(u\_.)\*((a\_) + (b\_.)\*(v\_))^(m\_)\*((A\_.) + (B\_.)\*(v\_) + (C\_.)\*(v\_)^2)  
, x\_Symbol] :> Simp[1/b^2 Int[u\*(a + b\*v)^(m + 1)\*Simp[b\*B - a\*C + b  
\*C\*v, x], x], x] /; FreeQ[{a, b, A, B, C}, x] && EqQ[A\*b^2 - a\*b\*B + a  
^2\*C, 0] && LeQ[m, -1]
2015. Int[(u\_.)\*((a\_) + (b\_.)\*(x\_)^(n\_.))^(m\_.)\*((c\_) + (d\_.)\*(x\_)^(q\_.))^(p  
\_.), x\_Symbol] :> Simp[(d/a)^p Int[u\*((a + b\*x^n)^(m + p)/x^(n\*p)),  
x], x] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[q, -n] && IntegerQ[p] &&  
EqQ[a\*c - b\*d, 0] && !(IntegerQ[m] && NegQ[n])
2016. Int[(u\_.)\*((a\_) + (b\_.)\*(x\_)^(n\_.))^(m\_.)\*((c\_) + (d\_.)\*(x\_)^(j\_.))^(p  
\_.), x\_Symbol] :> Simp[(-b^2/d)^m Int[u/(a - b\*x^n)^m, x], x] /; Free  
Q[{a, b, c, d, m, n, p}, x] && EqQ[j, 2\*n] && EqQ[p, -m] && EqQ[b^2\*c  
+ a^2\*d, 0] && GtQ[a, 0] && LtQ[d, 0] && GtQ[b^2, 0]
2017. Int[(Px\_)\*((a\_) + (b\_.)\*(x\_)^(n\_))^(p\_), x\_Symbol] :> Simp[Coeff[Px, x  
, n - 1]\*((a + b\*x^n)^(p + 1)/(b\*n\*(p + 1))), x] + Int[(Px - Coeff[Px,  
x, n - 1]\*x^(n - 1))\*(a + b\*x^n)^p, x] /; FreeQ[{a, b}, x] && PolyQ[P  
x, x] && IGtQ[p, 1] && IGtQ[n, 1] && NeQ[Coeff[Px, x, n - 1], 0] && Ne  
Q[Px, Coeff[Px, x, n - 1]\*x^(n - 1)] && !MatchQ[Px, (Qx\_.)\*((c\_) + (d  
\_.)\*x^(m\_))^(q\_) /; FreeQ[{c, d}, x] && PolyQ[Qx, x] && IGtQ[q, 1] &&  
IGtQ[m, 1] && NeQ[Coeff[Qx\*(a + b\*x^n)^p, x, m - 1], 0] && GtQ[m\*q, n\*  
p]]

2018. `Int[(Px_)*(x_)^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] := Simp  
[Coeff[Px, x, n - m - 1]*((a + b*x^n)^(p + 1)/(b*n*(p + 1))), x] + Int  
[(Px - Coeff[Px, x, n - m - 1])*x^(n - m - 1)*x^m*(a + b*x^n)^p, x] /;  
FreeQ[{a, b, m, n}, x] && PolyQ[Px, x] && IGtQ[p, 1] && IGtQ[n - m, 0]  
&& NeQ[Coeff[Px, x, n - m - 1], 0]`
2019. `Int[(u_.)*(Px_)^(p_.)*(Qx_)^(q_.), x_Symbol] := Int[u*PolynomialQuotie  
nt[Px, Qx, x]^p*Qx^(p + q), x] /; FreeQ[q, x] && PolyQ[Px, x] && PolyQ  
[Qx, x] && EqQ[PolynomialRemainder[Px, Qx, x], 0] && IntegerQ[p] && Lt  
Q[p*q, 0]`
2020. `Int[(Pp_)/(Qq_), x_Symbol] := With[{p = Expon[Pp, x], q = Expon[Qq, x]  
}, Simp[Coeff[Pp, x, p]*(Log[RemoveContent[Qq, x]]/(q*Coeff[Qq, x, q])  
) , x] /; EqQ[p, q - 1] && EqQ[Pp, Simplify[(Coeff[Pp, x, p]/(q*Coeff[Q  
q, x, q]))*D[Qq, x]]] /; PolyQ[Pp, x] && PolyQ[Qq, x]`
2021. `Int[(Pp_)*(Qq_)^(m_.), x_Symbol] := With[{p = Expon[Pp, x], q = Expon[  
Qq, x]}, Simp[Coeff[Pp, x, p]*x^(p - q + 1)*(Qq^(m + 1)/((p + m*q + 1)  
*Coeff[Qq, x, q])), x] /; NeQ[p + m*q + 1, 0] && EqQ[(p + m*q + 1)*Coe  
ff[Qq, x, q]*Pp, Coeff[Pp, x, p]*x^(p - q)*((p - q + 1)*Qq + (m + 1)*x  
*D[Qq, x])] /; FreeQ[m, x] && PolyQ[Pp, x] && PolyQ[Qq, x] && NeQ[m,  
-1]`
2022. `Int[(x_)^(m_.)*((a1_) + (b1_.)*(x_)^(n_.))^(p_)*((a2_) + (b2_.)*(x_)^(  
n_.))^(p_), x_Symbol] := Simp[(a1 + b1*x^n)^(p + 1)*((a2 + b2*x^n)^(p  
+ 1)/(2*b1*b2*n*(p + 1))), x] /; FreeQ[{a1, b1, a2, b2, m, n, p}, x] &  
& EqQ[a2*b1 + a1*b2, 0] && EqQ[m - 2*n + 1, 0] && NeQ[p, -1]`
2023. `Int[(Pp_)*(Qq_)^(m_.)*(Rr_)^(n_.), x_Symbol] := With[{p = Expon[Pp, x]  
, q = Expon[Qq, x], r = Expon[Rr, x]}, Simp[Coeff[Pp, x, p]*x^(p - q -  
r + 1)*Qq^(m + 1)*(Rr^(n + 1)/((p + m*q + n*r + 1)*Coeff[Qq, x, q]*Coe  
ff[Rr, x, r])), x] /; NeQ[p + m*q + n*r + 1, 0] && EqQ[(p + m*q + n*r  
+ 1)*Coeff[Qq, x, q]*Coeff[Rr, x, r]*Pp, Coeff[Pp, x, p]*x^(p - q - r)  
)*((p - q - r + 1)*Qq*Rr + (m + 1)*x*Rr*D[Qq, x] + (n + 1)*x*Qq*D[Rr,  
x])] /; FreeQ[{m, n}, x] && PolyQ[Pp, x] && PolyQ[Qq, x] && PolyQ[Rr,  
x] && NeQ[m, -1] && NeQ[n, -1]`



2024. `Int[((a_.) + (b_.)*(Pq_)^(n_.))^(p_.)*(Qr_), x_Symbol] := With[{q = Expon[Pq, x], r = Expon[Qr, x]}, Simp[Coeff[Qr, x, r]/(q*Coeff[Pq, x, q]) Subst[Int[(a + b*x^n)^p, x], x, Pq], x] /; EqQ[r, q - 1] && EqQ[Coeff[Qr, x, r]*D[Pq, x], q*Coeff[Pq, x, q]*Qr] /; FreeQ[{a, b, n, p}, x] && PolyQ[Pq, x] && PolyQ[Qr, x]`
2025. `Int[((a_.) + (b_.)*(Pq_)^(n_.) + (c_.)*(Pq_)^(n2_.))^(p_.)*(Qr_), x_Symbol] := Module[{q = Expon[Pq, x], r = Expon[Qr, x]}, Simp[Coeff[Qr, x, r]/(q*Coeff[Pq, x, q]) Subst[Int[(a + b*x^n + c*x^(2*n))^p, x], x, Pq], x] /; EqQ[r, q - 1] && EqQ[Coeff[Qr, x, r]*D[Pq, x], q*Coeff[Pq, x, q]*Qr] /; FreeQ[{a, b, c, n, p}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && PolyQ[Qr, x]`
2026. `Int[(Fx_.)*(Px_)^(p_.), x_Symbol] := With[{r = Expon[Px, x, Min]}, Int[x^(p*r)*ExpandToSum[Px/x^r, x]^p*Fx, x] /; IGtQ[r, 0]] /; PolyQ[Px, x] && IntegerQ[p] && !MonomialQ[Px, x] && (ILtQ[p, 0] || !PolyQ[u, x])`
2027. `Int[(Fx_.)*((a_.)*(x_)^(r_.) + (b_.)*(x_)^(s_.))^(p_.), x_Symbol] := Int[x^(p*r)*(a + b*x^(s - r))^p*Fx, x] /; FreeQ[{a, b, r, s}, x] && IntegerQ[p] && PosQ[s - r] && !(EqQ[p, 1] && EqQ[u, 1])`
2028. `Int[(Fx_.)*((a_.)*(x_)^(r_.) + (b_.)*(x_)^(s_.) + (c_.)*(x_)^(t_.))^(p_.), x_Symbol] := Int[x^(p*r)*(a + b*x^(s - r) + c*x^(t - r))^p*Fx, x] /; FreeQ[{a, b, c, r, s, t}, x] && IntegerQ[p] && PosQ[s - r] && PosQ[t - r] && !(EqQ[p, 1] && EqQ[u, 1])`
2029. `Int[(Fx_.)*((d_.)*(x_)^(q_.) + (a_.)*(x_)^(r_.) + (b_.)*(x_)^(s_.) + (c_.)*(x_)^(t_.))^(p_.), x_Symbol] := Int[x^(p*r)*(a + b*x^(s - r) + c*x^(t - r) + d*x^(q - r))^p*Fx, x] /; FreeQ[{a, b, c, d, r, s, t, q}, x] && IntegerQ[p] && PosQ[s - r] && PosQ[t - r] && PosQ[q - r] && !(EqQ[p, 1] && EqQ[u, 1])`
2030. `Int[(Fx_.)*(v_)^(m_.)*((b_.)*(v_))^(n_), x_Symbol] := Simp[1/b^m Int[(b*v)^(m + n)*Fx, x], x] /; FreeQ[{b, n}, x] && IntegerQ[m]`

2031.  $\text{Int}[(F x_{.}) * ((a_{.}) * (v_{.}))^{(m_{.})} * ((b_{.}) * (v_{.}))^{(n_{.})}, x\_Symbol] \rightarrow \text{Simp}[a^{(m + 1/2)} * b^{(n - 1/2)} * (\text{Sqrt}[b * v] / \text{Sqrt}[a * v]) \text{Int}[v^{(m + n)} * F x, x], x] /$   
 $;$  FreeQ[{a, b, m}, x] && !IntegerQ[m] && IGtQ[n + 1/2, 0] && IntegerQ[m + n]
2032.  $\text{Int}[(F x_{.}) * ((a_{.}) * (v_{.}))^{(m_{.})} * ((b_{.}) * (v_{.}))^{(n_{.})}, x\_Symbol] \rightarrow \text{Simp}[a^{(m - 1/2)} * b^{(n + 1/2)} * (\text{Sqrt}[a * v] / \text{Sqrt}[b * v]) \text{Int}[v^{(m + n)} * F x, x], x] /$   
 $;$  FreeQ[{a, b, m}, x] && !IntegerQ[m] && ILtQ[n - 1/2, 0] && IntegerQ[m + n]
2033.  $\text{Int}[(F x_{.}) * ((a_{.}) * (v_{.}))^{(m_{.})} * ((b_{.}) * (v_{.}))^{(n_{.})}, x\_Symbol] \rightarrow \text{Simp}[a^{(m + n)} * ((b * v)^n / (a * v)^n) \text{Int}[v^{(m + n)} * F x, x], x] /;$  FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && IntegerQ[m + n]
2034.  $\text{Int}[(F x_{.}) * ((a_{.}) * (v_{.}))^{(m_{.})} * ((b_{.}) * (v_{.}))^{(n_{.})}, x\_Symbol] \rightarrow \text{Simp}[b^{\text{IntPart}[n]} * ((b * v)^{\text{FracPart}[n]} / (a^{\text{IntPart}[n]} * (a * v)^{\text{FracPart}[n]})) \text{Int}[(a * v)^{(m + n)} * F x, x], x] /;$  FreeQ[{a, b, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && !IntegerQ[m + n]
2035.  $\text{Int}[(F x_{.}) * (x_{.})^{(m_{.})}, x\_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[k \text{Subst}[\text{Int}[x^{(k * (m + 1) - 1)} * \text{SubstPower}[F x, x, k], x], x, x^{(1/k)}], x] /;$  FractionQ[m] && AlgebraicFunctionQ[F x, x]
2036.  $\text{Int}[(u_{.}) * ((c_{.}) + (d_{.}) * (x_{.})^{(n_{.})})^{(q_{.})} * ((a1_{.}) + (b1_{.}) * (x_{.})^{(non2_{.})})^{(p_{.})} * ((a2_{.}) + (b2_{.}) * (x_{.})^{(non2_{.})})^{(p_{.})}, x\_Symbol] \rightarrow \text{Int}[u * (a1 * a2 + b1 * b2 * x^n)^p * (c + d * x^n)^q, x] /;$  FreeQ[{a1, b1, a2, b2, c, d, n, p, q}, x] && EqQ[non2, n/2] && EqQ[a2 \* b1 + a1 \* b2, 0] && (IntegerQ[p] || (GtQ[a1, 0] && GtQ[a2, 0]))
2037.  $\text{Int}[(u_{.}) * ((c_{.}) + (d_{.}) * (x_{.})^{(n_{.})} + (e_{.}) * (x_{.})^{(n2_{.})})^{(q_{.})} * ((a1_{.}) + (b1_{.}) * (x_{.})^{(non2_{.})})^{(p_{.})} * ((a2_{.}) + (b2_{.}) * (x_{.})^{(non2_{.})})^{(p_{.})}, x\_Symbol] \rightarrow \text{Int}[u * (a1 * a2 + b1 * b2 * x^n)^p * (c + d * x^n + e * x^{(2 * n)})^q, x] /;$  FreeQ[{a1, b1, a2, b2, c, d, e, n, p, q}, x] && EqQ[non2, n/2] && EqQ[n2, 2 \* n] && EqQ[a2 \* b1 + a1 \* b2, 0] && (IntegerQ[p] || (GtQ[a1, 0] && GtQ[a2, 0]))

2038.  $\text{Int}[(u\_)*((c\_)+(d\_)*(x\_)^{(n\_)})^{(q\_)*((a1\_)+(b1\_)*(x\_)^{(non2\_)}))^{(p\_)*((a2\_)+(b2\_)*(x\_)^{(non2\_)})^{(p\_)}}, x\_Symbol] \rightarrow \text{Simp}[(a1 + b1*x^{(n/2)})^{(p)}*((a2 + b2*x^{(n/2)})^{(p)})/(a1*a2 + b1*b2*x^n)^{(p)}] \text{Int}[u*(a1*a2 + b1*b2*x^n)^p*(c + d*x^n)^q, x], x] /;$   
 $\text{FreeQ}\{a1, b1, a2, b2, c, d, n, p, q\}, x\} \ \&\& \ \text{EqQ}[non2, n/2] \ \&\& \ \text{EqQ}[a2*b1 + a1*b2, 0] \ \&\& \ !(EqQ[n, 2] \ \&\& \ IGtQ[q, 0])$
2039.  $\text{Int}[(u\_)*((c\_)+(d\_)*(x\_)^{(n\_)}+(e\_)*(x\_)^{(n2\_}))^{(q\_)*((a1\_)+(b1\_)*(x\_)^{(non2\_)})^{(p\_)*((a2\_)+(b2\_)*(x\_)^{(non2\_)})^{(p\_)}}, x\_Symbol] \rightarrow \text{Simp}[(a1 + b1*x^{(n/2)})^{(p)}*((a2 + b2*x^{(n/2)})^{(p)})/(a1*a2 + b1*b2*x^n)^{(p)}] \text{Int}[u*(a1*a2 + b1*b2*x^n)^p*(c + d*x^n + e*x^{(2*n)})^q, x], x] /;$   
 $\text{FreeQ}\{a1, b1, a2, b2, c, d, e, n, p, q\}, x\} \ \&\& \ \text{EqQ}[non2, n/2] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[a2*b1 + a1*b2, 0]$
2040.  $\text{Int}[((e1\_)+(f1\_)*(x\_)^{(n2\_}))^{(r\_)*((e2\_)+(f2\_)*(x\_)^{(n2\_}))^{(r\_)}*((a\_)+(b\_)*(x\_)^{(n\_)})^{(p\_)*((c\_)+(d\_)*(x\_)^{(n\_)})^{(q\_)}}, x\_Symbol] \rightarrow \text{Int}[(a + b*x^n)^p*(c + d*x^n)^q*(e1*e2 + f1*f2*x^n)^r, x] /;$   
 $\text{FreeQ}\{a, b, c, d, e1, f1, e2, f2, n, p, q, r\}, x\} \ \&\& \ \text{EqQ}[n2, n/2] \ \&\& \ \text{EqQ}[e2*f1 + e1*f2, 0] \ \&\& \ (\text{IntegerQ}[r] \ || \ (\text{GtQ}[e1, 0] \ \&\& \ \text{GtQ}[e2, 0]))$
2041.  $\text{Int}[((e1\_)+(f1\_)*(x\_)^{(n2\_}))^{(r\_)*((e2\_)+(f2\_)*(x\_)^{(n2\_}))^{(r\_)}*((a\_)+(b\_)*(x\_)^{(n\_)})^{(p\_)*((c\_)+(d\_)*(x\_)^{(n\_)})^{(q\_)}}, x\_Symbol] \rightarrow \text{Simp}[(e1 + f1*x^{(n/2)})^{(r)}*((e2 + f2*x^{(n/2)})^{(r)})/(e1*e2 + f1*f2*x^n)^{(r)}] \text{Int}[(a + b*x^n)^p*(c + d*x^n)^q*(e1*e2 + f1*f2*x^n)^r, x], x] /;$   
 $\text{FreeQ}\{a, b, c, d, e1, f1, e2, f2, n, p, q, r\}, x\} \ \&\& \ \text{EqQ}[n2, n/2] \ \&\& \ \text{EqQ}[e2*f1 + e1*f2, 0]$
2042.  $\text{Int}[(u\_)*((c\_)*((d\_)*((a\_)+(b\_)*(x\_)))^{(q)})^{(p)}, x\_Symbol] \rightarrow \text{Simp}[(c*(d*(a + b*x))^q]^p/(a + b*x)^{(p*q)} \text{Int}[u*(a + b*x)^{(p*q)}, x], x] /;$   
 $\text{FreeQ}\{a, b, c, d, q, p\}, x\} \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ !\text{IntegerQ}[p]$
2043.  $\text{Int}[(u\_)*((c\_)*((d\_)*((a\_)+(b\_)*(x\_))^n)^q)^p, x\_Symbol] \rightarrow \text{Simp}[(c*(d*(a + b*x))^n]^q/(a + b*x)^{(n*p*q)} \text{Int}[u*(a + b*x)^{(n*p*q)}, x], x] /;$   
 $\text{FreeQ}\{a, b, c, d, n, q, p\}, x\} \ \&\& \ !\text{IntegerQ}[q] \ \&\& \ !\text{IntegerQ}[p]$

2044.  $\text{Int}[(u\_)*((c\_)*((a\_)+(b\_)*(x\_)^{(n\_)}))^{(q\_)}]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[\text{Simp}[(c*(a + b*x^n)^q)^p/(a + b*x^n)^{(p*q)}] \text{Int}[u*(a + b*x^n)^{(p*q)}, x], x] /; \text{FreeQ}\{a, b, c, n, p, q\}, x\} \&\& \text{GeQ}[a, 0]$
2045.  $\text{Int}[(u\_)*((c\_)*((a\_)+(b\_)*(x\_)^{(n\_)}))^{(q\_)}]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[\text{Simp}[(c*(a + b*x^n)^q)^p/(1 + b*(x^n/a))^{(p*q)}] \text{Int}[u*(1 + b*(x^n/a))^{(p*q)}, x], x] /; \text{FreeQ}\{a, b, c, n, p, q\}, x\} \&\& !\text{GeQ}[a, 0]$
2046.  $\text{Int}[(u\_)*((e\_)*((a\_)+(b\_)*(x\_)^{(n\_)}))^{(q\_)}*((c\_)+(d\_)*(x\_)^{(n\_)}))^{(q\_)}]^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[u*(e*(d/b)^q*(a + b*x^n)^{(2*q)})^p, x] /; \text{FreeQ}\{a, b, c, d, e, n, p\}, x\} \&\& \text{IntegerQ}[q] \&\& \text{EqQ}[b*c - a*d, 0]$
2047.  $\text{Int}[(u\_)*((e\_)*((a\_)+(b\_)*(x\_)^{(n\_)}))^{(q\_)}*((c\_)+(d\_)*(x\_)^{(n\_)}))^{(q\_)}]^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[u*(e*((-a^2)*(d/b) + b*d*x^{(2*n)}))^q]^p, x] /; \text{FreeQ}\{a, b, c, d, e, n, p\}, x\} \&\& \text{IntegerQ}[q] \&\& \text{EqQ}[b*c + a*d, 0]$
2048.  $\text{Int}[(u\_)*((e\_)*((a\_)+(b\_)*(x\_)^{(n\_)}))*((c\_)+(d\_)*(x\_)^{(n\_)}))^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[u*(a*c*e + (b*c + a*d)*e*x^n + b*d*e*x^{(2*n)})^p, x] /; \text{FreeQ}\{a, b, c, d, e, n, p\}, x\}$
2049.  $\text{Int}[(u\_)*(((e\_)*((a\_)+(b\_)*(x\_)^{(n\_)})))/((c\_)+(d\_)*(x\_)^{(n\_)}))^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(b*(e/d))^p \text{Int}[u, x], x] /; \text{FreeQ}\{a, b, c, d, e, n, p\}, x\} \&\& \text{EqQ}[b*c - a*d, 0]$
2050.  $\text{Int}[(u\_)*(((e\_)*((a\_)+(b\_)*(x\_)^{(n\_)})))/((c\_)+(d\_)*(x\_)^{(n\_)}))^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[u*((a*e + b*e*x^n)^p/(c + d*x^n)^p), x] /; \text{FreeQ}\{a, b, c, d, e, n, p\}, x\} \&\& \text{GtQ}[b*d*e, 0] \&\& \text{GtQ}[c - a*(d/b), 0]$
2051.  $\text{Int}[(u\_)*(((e\_)*((a\_)+(b\_)*(x\_)^{(n\_)})))/((c\_)+(d\_)*(x\_)^{(n\_)}))^{(p\_)}, x\_Symbol] \rightarrow \text{With}\{q = \text{Denominator}[p]\}, \text{Simp}[q*e*((b*c - a*d)/n) \text{Subst}[\text{Int}[x^{(q*(p+1)-1)}*((-a)*e + c*x^q)^{(1/n-1)}/(b*e - d*x^q)^{(1/n+1)}, x], x, (e*((a + b*x^n)/(c + d*x^n)))^{(1/q)}], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{FractionQ}[p] \&\& \text{IntegerQ}[1/n]$

2052.  $\text{Int}[(x_)^{(m_.)} * ((e_.) * (a_.) + (b_.) * (x_)) / ((c_) + (d_.) * (x_))^{(p_)}]$ ,  $x\_Symbol] := \text{With}[\{q = \text{Denominator}[p]\}, \text{Simp}[q * e * (b * c - a * d) \text{ Subst}[\text{Int}[x^{(q * (p + 1) - 1) * ((-a) * e + c * x^q)^m / (b * e - d * x^q)^{(m + 2)}], x], x, (e * ((a + b * x) / (c + d * x)))^{(1/q)}], x]] /;$   $\text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{FractionQ}[p] \ \&\& \ \text{IntegerQ}[m]$
2053.  $\text{Int}[(x_)^{(m_.)} * ((e_.) * (a_.) + (b_.) * (x_)^{(n_.)}) / ((c_) + (d_.) * (x_)^{(n_.)})^{(p_)}]$ ,  $x\_Symbol] := \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n] - 1) * (e * ((a + b * x) / (c + d * x)))^p}], x, x^n], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x] \ \&\& \ \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
2054.  $\text{Int}[(f_.) * (x_)^{(m_.)} * ((e_.) * (a_.) + (b_.) * (x_)^{(n_.)}) / ((c_) + (d_.) * (x_)^{(n_.)})^{(p_)}]$ ,  $x\_Symbol] := \text{Simp}[\text{Simp}[(c * x)^m / x^m \text{ Int}[x^m * (e * ((a + b * x^n) / (c + d * x^n)))^p], x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, m, n, p\}, x] \ \&\& \ \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
2055.  $\text{Int}[(u_)^{(r_.)} * ((e_.) * (a_.) + (b_.) * (x_)^{(n_.)}) / ((c_) + (d_.) * (x_)^{(n_.)})^{(p_)}]$ ,  $x\_Symbol] := \text{With}[\{q = \text{Denominator}[p]\}, \text{Simp}[q * e * ((b * c - a * d) / n) \text{ Subst}[\text{Int}[\text{SimplifyIntegrand}[x^{(q * (p + 1) - 1) * ((-a) * e + c * x^q)^{(1/n - 1)} / (b * e - d * x^q)^{(1/n + 1)}] * (u /. x -> ((-a) * e + c * x^q)^{(1/n)} / (b * e - d * x^q)^{(1/n)})^r], x], x], x, (e * ((a + b * x^n) / (c + d * x^n)))^{(1/q)}], x]] /;$   $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{PolynomialQ}[u, x] \ \&\& \ \text{FractionQ}[p] \ \&\& \ \text{IntegerQ}[1/n] \ \&\& \ \text{IntegerQ}[r]$
2056.  $\text{Int}[(u_)^{(r_.)} * (x_)^{(m_.)} * ((e_.) * (a_.) + (b_.) * (x_)^{(n_.)}) / ((c_) + (d_.) * (x_)^{(n_.)})^{(p_)}]$ ,  $x\_Symbol] := \text{With}[\{q = \text{Denominator}[p]\}, \text{Simp}[q * e * ((b * c - a * d) / n) \text{ Subst}[\text{Int}[\text{SimplifyIntegrand}[x^{(q * (p + 1) - 1) * ((-a) * e + c * x^q)^{(m + 1)/n - 1} / (b * e - d * x^q)^{(m + 1)/n + 1)}] * (u /. x -> ((-a) * e + c * x^q)^{(1/n)} / (b * e - d * x^q)^{(1/n)})^r], x], x], x, (e * ((a + b * x^n) / (c + d * x^n)))^{(1/q)}], x]] /;$   $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{PolynomialQ}[u, x] \ \&\& \ \text{FractionQ}[p] \ \&\& \ \text{IntegerQ}[1/n] \ \&\& \ \text{IntegersQ}[m, r]$
2057.  $\text{Int}[(u_.) * (a_.) + (b_.) / ((c_) + (d_.) * (x_)^{(n_.)})^{(p_)}]$ ,  $x\_Symbol] := \text{Int}[u * ((b + a * c + a * d * x^n) / (c + d * x^n))^p, x] /;$   $\text{FreeQ}[\{a, b, c, d, n, p\}, x]$

2058.  $\text{Int}[(u\_)*((e\_)*((a\_)+(b\_)*(x\_)^{(n\_)}))^{(q\_)*((c\_)+(d\_)*(x\_)^{(n\_)}))^{(r\_)}], x\_Symbol] \rightarrow \text{Simp}[\text{Simp}[(e*(a + b*x^n)^q*(c + d*x^n)^r)^p/((a + b*x^n)^{(p*q)}*(c + d*x^n)^{(p*r)})], \text{Int}[u*(a + b*x^n)^{(p*q)}*(c + d*x^n)^{(p*r)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n, p, q, r\}, x]$
2059.  $\text{Int}[(a\_)+(b\_)*((c\_)/(x\_))^{(n\_)}], x\_Symbol] \rightarrow \text{Simp}[-c \text{ Subst}[\text{Int}[(a + b*x^n)^p/x^2, x], x, c/x], x] /; \text{FreeQ}\{a, b, c, n, p\}, x]$
2060.  $\text{Int}[(a\_)+(b\_)*((c\_)/(x\_))^{(n\_)}], x\_Symbol] \rightarrow \text{Simp}[-c^{(m+1)} \text{ Subst}[\text{Int}[(a + b*x^n)^p/x^{(m+2)}, x], x, c/x], x] /; \text{FreeQ}\{a, b, c, n, p\}, x] \&\& \text{IntegerQ}[m]$
2061.  $\text{Int}[(a\_)+(b\_)*((c\_)/(x\_))^{(n\_)}], x\_Symbol] \rightarrow \text{Simp}[(-c)*(d*x)^m*(c/x)^m \text{ Subst}[\text{Int}[(a + b*x^n)^p/x^{(m+2)}, x], x, c/x], x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x] \&\& \text{!IntegerQ}[m]$
2062.  $\text{Int}[(a\_)+(c\_)*((d\_)/(x\_))^{(n2\_)}], x\_Symbol] \rightarrow \text{Simp}[-d \text{ Subst}[\text{Int}[(a + b*x^n + c*x^{(2*n)})^p/x^2, x], x, d/x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& \text{EqQ}[n2, 2*n]$
2063.  $\text{Int}[(a\_)+(c\_)*((d\_)/(x\_))^{(n2\_)}], x\_Symbol] \rightarrow \text{Simp}[-d^{(m+1)} \text{ Subst}[\text{Int}[(a + b*x^n + c*x^{(2*n)})^p/x^{(m+2)}, x], x, d/x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IntegerQ}[m]$
2064.  $\text{Int}[(a\_)+(c\_)*((d\_)/(x\_))^{(n2\_)}], x\_Symbol] \rightarrow \text{Simp}[(e\_)*(x\_)]^{(m)}, x\_Symbol] \rightarrow \text{Simp}[(-d)*(e*x)^m*(d/x)^m \text{ Subst}[\text{Int}[(a + b*x^n + c*x^{(2*n)})^p/x^{(m+2)}, x], x, d/x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{!IntegerQ}[m]$
2065.  $\text{Int}[(a\_)+(b\_)*((d\_)/(x\_))^{(n\_)}], x\_Symbol] \rightarrow \text{Simp}[-d \text{ Subst}[\text{Int}[(a + b*x^n + (c/d^{(2*n)})*x^{(2*n)})^p/x^2, x], x, d/x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& \text{EqQ}[n2, -2*n] \&\& \text{IntegerQ}[2*n]$

2066.  $\text{Int}[(x\_)^{(m\_)}*((a\_)+(b\_)*((d\_)/(x\_))^{(n\_)}+(c\_)*(x\_)^{(n2\_)})^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[-d^{(m+1)} \text{Subst}[\text{Int}[(a+b*x^n+(c/d^{(2*n)})*x^{(2*n)})^p/x^{(m+2)}, x], x, d/x], x] /;$   $\text{FreeQ}\{a, b, c, d, n, p\}, x]$  &&  $\text{EqQ}[n2, -2*n]$  &&  $\text{IntegerQ}[2*n]$  &&  $\text{IntegerQ}[m]$
2067.  $\text{Int}[((e\_)*(x\_))^{(m\_)}*((a\_)+(b\_)*((d\_)/(x\_))^{(n\_)}+(c\_)*(x\_)^{(n2\_)} )^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(-d)*(e*x)^m*(d/x)^m \text{Subst}[\text{Int}[(a+b*x^n+(c/d^{(2*n)})*x^{(2*n)})^p/x^{(m+2)}, x], x, d/x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, n, p\}, x]$  &&  $\text{EqQ}[n2, -2*n]$  &&  $\text{IntegerQ}[m]$  &&  $\text{IntegerQ}[2*n]$
2068.  $\text{Int}[(u\_)*((e\_)*((a\_)+(b\_)*(x\_)^{(n\_)} )^{(r\_)} )^{(p\_)}*((f\_)*((c\_)+(d\_)*(x\_)^{(n\_)} )^{(s\_)} )^{(q\_)}, x\_Symbol] \rightarrow \text{Simp}[(e*(a+b*x^n)^r)^p*((f*(c+d*x^n)^s)^q/((a+b*x^n)^{(p*r)}*(c+d*x^n)^{(q*s)})) \text{Int}[u*(a+b*x^n)^{(p*r)}*(c+d*x^n)^{(q*s)}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, n, p, q, r, s\}, x]$
2069.  $\text{Int}[(u\_)*(Px\_), x\_Symbol] \rightarrow \text{With}\{a = \text{Rt}[\text{Coeff}[Px, x^2, 0], \text{Expon}[Px, x^2]], b = \text{Rt}[\text{Coeff}[Px, x^2, \text{Expon}[Px, x^2]], \text{Expon}[Px, x^2]]\}, \text{Int}[u*(a+b*x^2)^{\text{Expon}[Px, x^2]}, x] /;$   $\text{EqQ}[Px, (a+b*x^2)^{\text{Expon}[Px, x^2]}]$   $/;$   $\text{PolyQ}[Px, x^2]$  &&  $\text{GtQ}[\text{Expon}[Px, x^2], 1]$  &&  $\text{NeQ}[\text{Coeff}[Px, x^2, 0], 0]$  &&  $\text{!MatchQ}[Px, (a\_)*(v\_)^{\text{Expon}[Px, x^2]} /;$   $\text{FreeQ}[a, x]$  &&  $\text{BinomialQ}[v, x, 2]$
2070.  $\text{Int}[(u\_)*(Px\_)^{(p\_)}, x\_Symbol] \rightarrow \text{With}\{a = \text{Rt}[\text{Coeff}[Px, x^2, 0], \text{Expon}[Px, x^2]], b = \text{Rt}[\text{Coeff}[Px, x^2, \text{Expon}[Px, x^2]], \text{Expon}[Px, x^2]]\}, \text{Int}[u*(a+b*x^2)^{(\text{Expon}[Px, x^2]*p)}, x] /;$   $\text{EqQ}[Px, (a+b*x^2)^{\text{Expon}[Px, x^2]}]$   $/;$   $\text{IntegerQ}[p]$  &&  $\text{PolyQ}[Px, x^2]$  &&  $\text{GtQ}[\text{Expon}[Px, x^2], 1]$  &&  $\text{NeQ}[\text{Coeff}[Px, x^2, 0], 0]$
2071.  $\text{Int}[(u\_)*(Px\_)^{(p\_)}, x\_Symbol] \rightarrow \text{With}\{a = \text{Rt}[\text{Coeff}[Px, x^2, 0], \text{Expon}[Px, x^2]], b = \text{Rt}[\text{Coeff}[Px, x^2, \text{Expon}[Px, x^2]], \text{Expon}[Px, x^2]]\}, \text{Simp}[(a+b*x^2)^{\text{Expon}[Px, x^2]}]^p/(a+b*x^2)^{(\text{Expon}[Px, x^2]*p)} \text{Int}[u*(a+b*x^2)^{(\text{Expon}[Px, x^2]*p)}, x], x] /;$   $\text{EqQ}[Px, (a+b*x^2)^{\text{Expon}[Px, x^2]}]$   $/;$   $\text{!IntegerQ}[p]$  &&  $\text{PolyQ}[Px, x^2]$  &&  $\text{GtQ}[\text{Expon}[Px, x^2], 1]$  &&  $\text{NeQ}[\text{Coeff}[Px, x^2, 0], 0]$

2072.  $\text{Int}[(u_)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^p, x] /; \text{FreeQ}[p, x]$   
 $\&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
2073.  $\text{Int}[(u_)^{(p_.)} * ((c_.) * (x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[(c*x)^m * \text{ExpandToSum}[u, x]^p, x] /; \text{FreeQ}[\{c, m, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
2074.  $\text{Int}[(u_)^{(p_.)} * (v_)^{(q_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^p * \text{ExpandToSum}[v, x]^q, x] /; \text{FreeQ}[\{p, q\}, x] \&\& \text{BinomialQ}[\{u, v\}, x] \&\& \text{EqQ}[\text{BinomialDegree}[u, x] - \text{BinomialDegree}[v, x], 0] \&\& !\text{BinomialMatchQ}[\{u, v\}, x]$
2075.  $\text{Int}[(u_)^{(p_.)} * (v_)^{(q_.)} * ((e_.) * (x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[(e*x)^m * \text{ExpandToSum}[u, x]^p * \text{ExpandToSum}[v, x]^q, x] /; \text{FreeQ}[\{e, m, p, q\}, x] \&\& \text{BinomialQ}[\{u, v\}, x] \&\& \text{EqQ}[\text{BinomialDegree}[u, x] - \text{BinomialDegree}[v, x], 0] \&\& !\text{BinomialMatchQ}[\{u, v\}, x]$
2076.  $\text{Int}[(u_)^{(m_.)} * (v_)^{(p_.)} * (w_)^{(q_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m * \text{ExpandToSum}[v, x]^p * \text{ExpandToSum}[w, x]^q, x] /; \text{FreeQ}[\{m, p, q\}, x] \&\& \text{BinomialQ}[\{u, v, w\}, x] \&\& \text{EqQ}[\text{BinomialDegree}[u, x] - \text{BinomialDegree}[v, x], 0] \&\& \text{EqQ}[\text{BinomialDegree}[u, x] - \text{BinomialDegree}[w, x], 0] \&\& !\text{BinomialMatchQ}[\{u, v, w\}, x]$
2077.  $\text{Int}[(u_)^{(p_.)} * (v_)^{(q_.)} * ((g_.) * (x_))^{(m_.)} * (z_)^{(r_.)}, x\_Symbol] \rightarrow \text{Int}[(g*x)^m * \text{ExpandToSum}[u, x]^p * \text{ExpandToSum}[v, x]^q * \text{ExpandToSum}[z, x]^r, x] /; \text{FreeQ}[\{g, m, p, q, r\}, x] \&\& \text{BinomialQ}[\{u, v, z\}, x] \&\& \text{EqQ}[\text{BinomialDegree}[u, x] - \text{BinomialDegree}[v, x], 0] \&\& \text{EqQ}[\text{BinomialDegree}[u, x] - \text{BinomialDegree}[z, x], 0] \&\& !\text{BinomialMatchQ}[\{u, v, z\}, x]$
2078.  $\text{Int}[(u_)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^p, x] /; \text{FreeQ}[p, x] \&\& \text{GeneralizedBinomialQ}[u, x] \&\& !\text{GeneralizedBinomialMatchQ}[u, x]$
2079.  $\text{Int}[(u_)^{(p_.)} * ((c_.) * (x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[(c*x)^m * \text{ExpandToSum}[u, x]^p, x] /; \text{FreeQ}[\{c, m, p\}, x] \&\& \text{GeneralizedBinomialQ}[u, x] \&\& !\text{GeneralizedBinomialMatchQ}[u, x]$



2080.  $\text{Int}[(u_)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[p, x]$   
 $\&\& \text{QuadraticQ}[u, x] \&\& !\text{QuadraticMatchQ}[u, x]$
2081.  $\text{Int}[(u_)^{(m_*)}(v_)^{(p_*)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m \text{Expand}$   
 $\text{ToSum}[v, x]^p, x] /;$   $\text{FreeQ}[\{m, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{QuadraticQ}[v,$   
 $x] \&\& !( \text{LinearMatchQ}[u, x] \&\& \text{QuadraticMatchQ}[v, x] )$
2082.  $\text{Int}[(u_)^{(m_*)}(v_)^{(n_*)}(w_)^{(p_*)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u,$   
 $x]^m \text{ExpandToSum}[v, x]^n \text{ExpandToSum}[w, x]^p, x] /;$   $\text{FreeQ}[\{m, n, p\}, x]$   
 $] \&\& \text{LinearQ}[\{u, v\}, x] \&\& \text{QuadraticQ}[w, x] \&\& !( \text{LinearMatchQ}[\{u, v\},$   
 $x] \&\& \text{QuadraticMatchQ}[w, x] )$
2083.  $\text{Int}[(u_)^{(p_*)}(v_)^{(q_*)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^p \text{Expand}$   
 $\text{ToSum}[v, x]^q, x] /;$   $\text{FreeQ}[\{p, q\}, x] \&\& \text{QuadraticQ}[\{u, v\}, x] \&\& !\text{Qu}$   
 $\text{adraticMatchQ}[\{u, v\}, x]$
2084.  $\text{Int}[(u_)^{(p_*)}(v_)^{(q_*)}(z_)^{(m_*)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[z,$   
 $x]^m \text{ExpandToSum}[u, x]^p \text{ExpandToSum}[v, x]^q, x] /;$   $\text{FreeQ}[\{m, p, q\}, x]$   
 $] \&\& \text{LinearQ}[z, x] \&\& \text{QuadraticQ}[\{u, v\}, x] \&\& !( \text{LinearMatchQ}[z, x] \&\&$   
 $\&\& \text{QuadraticMatchQ}[\{u, v\}, x] ) \&\& !\text{MatchQ}[z^m u^p v^q, ((d_) + (e_*)$   
 $x)^m ((f_) + (g_*)x)^2 ((a_) + (b_*)x + (c_*)x^2)^{(t_*)} /;$   $\text{FreeQ}[\{a, b, c, d, e, f, g, t\}, x]$   
 $] \&\& !\text{MatchQ}[z^m u^p v^q, ((d_) + (e_*)$   
 $x)^m ((f_) + (g_*)x)^2 ((a_) + (c_*)x^2)^{(t_*)} /;$   $\text{FreeQ}[\{a, c, d,$   
 $e, f, g, t\}, x]$
2085.  $\text{Int}[(u_)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[p, x]$   
 $\&\& \text{TrinomialQ}[u, x] \&\& !\text{TrinomialMatchQ}[u, x]$
2086.  $\text{Int}[(u_)^{(p_*)}((d_*)(x_))^{(m_*)}, x\_Symbol] \rightarrow \text{Int}[(d*x)^m \text{ExpandToSu}$   
 $\text{m}[u, x]^p, x] /;$   $\text{FreeQ}[\{d, m, p\}, x] \&\& \text{TrinomialQ}[u, x] \&\& !\text{Trinomia}$   
 $\text{lMatchQ}[u, x]$
2087.  $\text{Int}[(u_)^{(q_*)}(v_)^{(p_*)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^q \text{Expand}$   
 $\text{ToSum}[v, x]^p, x] /;$   $\text{FreeQ}[\{p, q\}, x] \&\& \text{BinomialQ}[u, x] \&\& \text{TrinomialQ}$   
 $[v, x] \&\& !( \text{BinomialMatchQ}[u, x] \&\& \text{TrinomialMatchQ}[v, x] )$

2088.  $\text{Int}[(u_)^{(q_.)}(v_)^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^q \text{ExpandToSum}[v, x]^p, x] /;$   $\text{FreeQ}[\{p, q\}, x] \ \&\& \ \text{BinomialQ}[u, x] \ \&\& \ \text{BinomialQ}[v, x] \ \&\& \ !(\text{BinomialMatchQ}[u, x] \ \&\& \ \text{BinomialMatchQ}[v, x])$
2089.  $\text{Int}[(u_)^{(p_.)}((f_.)(x_))^{(m_.)}(z_)^{(q_.)}, x\_Symbol] \rightarrow \text{Int}[(f*x)^m \text{ExpandToSum}[z, x]^q \text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[\{f, m, p, q\}, x] \ \&\& \ \text{BinomialQ}[z, x] \ \&\& \ \text{TrinomialQ}[u, x] \ \&\& \ !(\text{BinomialMatchQ}[z, x] \ \&\& \ \text{TrinomialMatchQ}[u, x])$
2090.  $\text{Int}[(u_)^{(p_.)}((f_.)(x_))^{(m_.)}(z_)^{(q_.)}, x\_Symbol] \rightarrow \text{Int}[(f*x)^m \text{ExpandToSum}[z, x]^q \text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[\{f, m, p, q\}, x] \ \&\& \ \text{BinomialQ}[z, x] \ \&\& \ \text{BinomialQ}[u, x] \ \&\& \ !(\text{BinomialMatchQ}[z, x] \ \&\& \ \text{BinomialMatchQ}[u, x])$
2091.  $\text{Int}[(Px_)(u_)^{(p_.)}(z_)^{(q_.)}, x\_Symbol] \rightarrow \text{Int}[Px \text{ExpandToSum}[z, x]^q \text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[\{p, q\}, x] \ \&\& \ \text{PolyQ}[Px, x] \ \&\& \ \text{BinomialQ}[z, x] \ \&\& \ \text{TrinomialQ}[u, x] \ \&\& \ !(\text{BinomialMatchQ}[z, x] \ \&\& \ \text{TrinomialMatchQ}[u, x])$
2092.  $\text{Int}[(Px_)(u_)^{(p_.)}(z_)^{(q_.)}, x\_Symbol] \rightarrow \text{Int}[Px \text{ExpandToSum}[z, x]^q \text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[\{p, q\}, x] \ \&\& \ \text{BinomialQ}[z, x] \ \&\& \ \text{BinomialQ}[u, x] \ \&\& \ !(\text{BinomialMatchQ}[z, x] \ \&\& \ \text{BinomialMatchQ}[u, x])$
2093.  $\text{Int}[(u_)^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[p, x] \ \&\& \ \text{GeneralizedTrinomialQ}[u, x] \ \&\& \ !\text{GeneralizedTrinomialMatchQ}[u, x]$
2094.  $\text{Int}[(u_)^{(p_.)}((d_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[(d*x)^m \text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[\{d, m, p\}, x] \ \&\& \ \text{GeneralizedTrinomialQ}[u, x] \ \&\& \ !\text{GeneralizedTrinomialMatchQ}[u, x]$
2095.  $\text{Int}[(u_)^{(p_.)}(z_), x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[z, x] \text{ExpandToSum}[u, x]^p, x] /;$   $\text{FreeQ}[p, x] \ \&\& \ \text{BinomialQ}[z, x] \ \&\& \ \text{GeneralizedTrinomialQ}[u, x] \ \&\& \ \text{EqQ}[\text{BinomialDegree}[z, x] - \text{GeneralizedTrinomialDegree}[u, x], 0] \ \&\& \ !(\text{BinomialMatchQ}[z, x] \ \&\& \ \text{GeneralizedTrinomialMatchQ}[u, x])$

2096.  $\text{Int}[(u_)^{(p_.)} * ((f_.) * (x_))^{(m_.)} * (z_), x\_Symbol] \rightarrow \text{Int}[(f*x)^m * \text{ExpandToSum}[z, x] * \text{ExpandToSum}[u, x]^p, x] / ; \text{FreeQ}\{f, m, p\}, x\} \&\& \text{BinomialQ}[z, x] \&\& \text{GeneralizedTrinomialQ}[u, x] \&\& \text{EqQ}[\text{BinomialDegree}[z, x] - \text{GeneralizedTrinomialDegree}[u, x], 0] \&\& !(\text{BinomialMatchQ}[z, x] \&\& \text{GeneralizedTrinomialMatchQ}[u, x])$
2097.  $\text{Int}[(((a_.) + (b_.) * (x_)) * ((A_.) + (B_.) * (x_))) / (\text{Sqrt}[(c_.) + (d_.) * (x_)] * \text{Sqrt}[(e_.) + (f_.) * (x_)] * \text{Sqrt}[(g_.) + (h_.) * (x_)]), x\_Symbol] \rightarrow \text{Simp}[2*b*B*\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x]*(\text{Sqrt}[g + h*x]/(3*d*f*h)), x] + \text{Simp}[1/(3*d*f*h) \text{Int}[(1/(\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x]*\text{Sqrt}[g + h*x])) * \text{Simp}[3*a*A*d*f*h - b*B*(d*e*g + c*f*g + c*e*h) + (3*A*b*d*f*h + B*(3*a*d*f*h - 2*b*(d*f*g + d*e*h + c*f*h)))*x, x], x] / ; \text{FreeQ}\{a, b, c, d, e, f, g, h, A, B\}, x]$
2098.  $\text{Int}[(\text{Sqrt}[(a_.) + (b_.) * (x_)] * ((A_.) + (B_.) * (x_))) / (\text{Sqrt}[(c_.) + (d_.) * (x_)] * \text{Sqrt}[(e_.) + (f_.) * (x_)] * \text{Sqrt}[(g_.) + (h_.) * (x_)]), x\_Symbol] \rightarrow \text{Simp}[b*B*\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x]*(\text{Sqrt}[g + h*x]/(d*f*h*\text{Sqrt}[a + b*x])), x] + (-\text{Simp}[B*((b*g - a*h)/(2*f*h)) \text{Int}[\text{Sqrt}[e + f*x]/(\text{Sqrt}[a + b*x]*\text{Sqrt}[c + d*x]*\text{Sqrt}[g + h*x]), x], x] + \text{Simp}[B*(b*e - a*f)*((b*g - a*h)/(2*d*f*h)) \text{Int}[\text{Sqrt}[c + d*x]/((a + b*x)^{(3/2)}*\text{Sqrt}[e + f*x]*\text{Sqrt}[g + h*x]), x], x]) / ; \text{FreeQ}\{a, b, c, d, e, f, g, h, A, B\}, x\} \&\& \text{EqQ}[2*A*d*f - B*(d*e + c*f), 0]$
2099.  $\text{Int}[(\text{Sqrt}[(a_.) + (b_.) * (x_)] * ((A_.) + (B_.) * (x_))) / (\text{Sqrt}[(c_.) + (d_.) * (x_)] * \text{Sqrt}[(e_.) + (f_.) * (x_)] * \text{Sqrt}[(g_.) + (h_.) * (x_)]), x\_Symbol] \rightarrow \text{Simp}[B*\text{Sqrt}[a + b*x]*\text{Sqrt}[e + f*x]*(\text{Sqrt}[g + h*x]/(f*h*\text{Sqrt}[c + d*x])), x] + (-\text{Simp}[B*(b*e - a*f)*((b*g - a*h)/(2*b*f*h)) \text{Int}[1/(\text{Sqrt}[a + b*x]*\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x]*\text{Sqrt}[g + h*x]), x], x] + \text{Simp}[B*(d*e - c*f)*((d*g - c*h)/(2*d*f*h)) \text{Int}[\text{Sqrt}[a + b*x]/((c + d*x)^{(3/2)}*\text{Sqrt}[e + f*x]*\text{Sqrt}[g + h*x]), x], x] + \text{Simp}[(2*A*b*d*f*h + B*(a*d*f*h - b*(d*f*g + d*e*h + c*f*h)))/(2*b*d*f*h) \text{Int}[\text{Sqrt}[a + b*x]/(\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x]*\text{Sqrt}[g + h*x]), x], x]) / ; \text{FreeQ}\{a, b, c, d, e, f, g, h, A, B\}, x\} \&\& \text{NeQ}[2*A*d*f - B*(d*e + c*f), 0]$
2100.  $\text{Int}[(((a_.) + (b_.) * (x_))^{(m_.)} * ((A_.) + (B_.) * (x_))) / (\text{Sqrt}[(c_.) + (d_.) * (x_)] * \text{Sqrt}[(e_.) + (f_.) * (x_)] * \text{Sqrt}[(g_.) + (h_.) * (x_)]), x\_Symbol] \rightarrow \text{Simp}[2*b*B*(a + b*x)^{(m - 1)}*\text{Sqrt}[c + d*x]*\text{Sqrt}[e + f*x]*(\text{Sqrt}[g +$

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    h*x]/(d*f*h*(2*m + 1))), x] + Simp[1/(d*f*h*(2*m + 1)) Int[((a + b*x)^(m - 2)/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]))*Simp[(-b)*B*(a*(d*e*g + c*f*g + c*e*h) + 2*b*c*e*g*(m - 1)) + a^2*A*d*f*h*(2*m + 1) + (2*a*A*b*d*f*h*(2*m + 1) - B*(2*a*b*(d*f*g + d*e*h + c*f*h) + b^2*(d*e*g + c*f*g + c*e*h)*(2*m - 1) - a^2*d*f*h*(2*m + 1)))*x + b*(A*b*d*f*h*(2*m + 1) - B*(2*b*(d*f*g + d*e*h + c*f*h)*m - a*d*f*h*(4*m - 1)))*x^2, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, A, B}, x] && IntegerQ[2*m] && GtQ[m, 1]

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2101. `Int[((A_.) + (B_.)*(x_))/(Sqrt[(a_.) + (b_.)*(x_)]*Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(g_.) + (h_.)*(x_)]), x_Symbol] :> Simp[(A*b - a*B)/b Int[1/(Sqrt[a + b*x]*Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]), x], x] + Simp[B/b Int[Sqrt[a + b*x]/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]), x], x] /; FreeQ[{a, b, c, d, e, f, g, h, A, B}, x]`
2102. `Int[(((a_.) + (b_.)*(x_))^(m_)*((A_.) + (B_.)*(x_)))/(Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(g_.) + (h_.)*(x_)]), x_Symbol] :> Simp[(A*b^2 - a*b*B)*(a + b*x)^(m + 1)*Sqrt[c + d*x]*Sqrt[e + f*x]*(Sqrt[g + h*x]/((m + 1)*(b*c - a*d)*(b*e - a*f)*(b*g - a*h))), x] - Simp[1/(2*(m + 1)*(b*c - a*d)*(b*e - a*f)*(b*g - a*h)) Int[((a + b*x)^(m + 1)/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]))*Simp[A*(2*a^2*d*f*h*(m + 1) - 2*a*b*(m + 1)*(d*f*g + d*e*h + c*f*h) + b^2*(2*m + 3)*(d*e*g + c*f*g + c*e*h)) - b*B*(a*(d*e*g + c*f*g + c*e*h) + 2*b*c*e*g*(m + 1)) - 2*((A*b - a*B)*(a*d*f*h*(m + 1) - b*(m + 2)*(d*f*g + d*e*h + c*f*h)))*x + d*f*h*(2*m + 5)*(A*b^2 - a*b*B)*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, h, A, B}, x] && IntegerQ[2*m] && LtQ[m, -1]`
2103. `Int[(((a_.) + (b_.)*(x_))^(m_.)*((A_.) + (B_.)*(x_) + (C_.)*(x_)^2))/(Sqrt[(c_.) + (d_.)*(x_)]*Sqrt[(e_.) + (f_.)*(x_)]*Sqrt[(g_.) + (h_.)*(x_)]), x_Symbol] :> Simp[2*C*(a + b*x)^m*Sqrt[c + d*x]*Sqrt[e + f*x]*(Sqrt[g + h*x]/(d*f*h*(2*m + 3))), x] + Simp[1/(d*f*h*(2*m + 3)) Int[((a + b*x)^(m - 1)/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]))*Simp[A*A*d*f*h*(2*m + 3) - C*(a*(d*e*g + c*f*g + c*e*h) + 2*b*c*e*g*m) + ((A*b + a*B)*d*f*h*(2*m + 3) - C*(2*a*(d*f*g + d*e*h + c*f*h) + b*(2*m + 1)*(d*e*g + c*f*g + c*e*h)))*x + (b*B*d*f*h*(2*m + 3) + 2*C*(a*d*f*h*m - b*(m + 1)*(d*f*g + d*e*h + c*f*h)))*x^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, g, h, A, B, C}, x] && IntegerQ[2*m] && GtQ[m, 0]`

2104. $\text{Int}[\frac{((a_{\cdot}) + (b_{\cdot})(x_{\cdot}))^{(m_{\cdot})}((A_{\cdot}) + (C_{\cdot})(x_{\cdot})^2))}{(\text{Sqrt}[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]\text{Sqrt}[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\text{Sqrt}[(g_{\cdot}) + (h_{\cdot})(x_{\cdot})])}, x_{\text{Symbol}}] \rightarrow \text{Simp}[2C(a + bx)^m \text{Sqrt}[c + dx] \text{Sqrt}[e + fx] (\text{Sqrt}[g + hx] / (dfh(2m + 3))), x] + \text{Simp}[1/(dfh(2m + 3)) \text{Int}[(a + bx)^{(m-1)} / (\text{Sqrt}[c + dx] \text{Sqrt}[e + fx] \text{Sqrt}[g + hx])] \text{Simp}[aA d f h (2m + 3) - C(a(d e g + c f g + c e h) + 2 b c e g m) + (A b d f h (2m + 3) - C(2 a (d f g + d e h + c f h) + b(2m + 1)(d e g + c f g + c e h))] x + 2 C(a d f h m - b(m + 1)(d f g + d e h + c f h)) x^2, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, A, C\}, x] \&\& \text{IntegerQ}[2m] \&\& \text{GtQ}[m, 0]$
2105. $\text{Int}[\frac{((A_{\cdot}) + (B_{\cdot})(x_{\cdot}) + (C_{\cdot})(x_{\cdot})^2)}{(\text{Sqrt}[(a_{\cdot}) + (b_{\cdot})(x_{\cdot})]\text{Sqrt}[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]\text{Sqrt}[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\text{Sqrt}[(g_{\cdot}) + (h_{\cdot})(x_{\cdot})])}, x_{\text{Symbol}}] \rightarrow \text{Simp}[C \text{Sqrt}[a + bx] \text{Sqrt}[e + fx] (\text{Sqrt}[g + hx] / (b f h \text{Sqrt}[c + dx])), x] + (\text{Simp}[1/(2 b d f h) \text{Int}[(1/(\text{Sqrt}[a + bx] \text{Sqrt}[c + dx] \text{Sqrt}[e + fx] \text{Sqrt}[g + hx]))] \text{Simp}[2 A b d f h - C(b d e g + a c f h) + (2 b B d f h - C(a d f h + b(d f g + d e h + c f h))] x, x], x] + \text{Simp}[C(d e - c f)((d g - c h)/(2 b d f h)) \text{Int}[\text{Sqrt}[a + bx] / ((c + d x)^{3/2} \text{Sqrt}[e + fx] \text{Sqrt}[g + hx]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, h, A, B, C\}, x]$
2106. $\text{Int}[\frac{((A_{\cdot}) + (C_{\cdot})(x_{\cdot})^2)}{(\text{Sqrt}[(a_{\cdot}) + (b_{\cdot})(x_{\cdot})]\text{Sqrt}[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]\text{Sqrt}[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\text{Sqrt}[(g_{\cdot}) + (h_{\cdot})(x_{\cdot})])}, x_{\text{Symbol}}] \rightarrow \text{Simp}[C \text{Sqrt}[a + bx] \text{Sqrt}[e + fx] (\text{Sqrt}[g + hx] / (b f h \text{Sqrt}[c + dx])), x] + (\text{Simp}[1/(2 b d f h) \text{Int}[(1/(\text{Sqrt}[a + bx] \text{Sqrt}[c + dx] \text{Sqrt}[e + fx] \text{Sqrt}[g + hx))] \text{Simp}[2 A b d f h - C(b d e g + a c f h) - C(a d f h + b(d f g + d e h + c f h))] x, x], x] + \text{Simp}[C(d e - c f)((d g - c h)/(2 b d f h)) \text{Int}[\text{Sqrt}[a + bx] / ((c + d x)^{3/2} \text{Sqrt}[e + fx] \text{Sqrt}[g + hx]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, h, A, C\}, x]$
2107. $\text{Int}[\frac{((a_{\cdot}) + (b_{\cdot})(x_{\cdot}))^{(m_{\cdot})}((A_{\cdot}) + (B_{\cdot})(x_{\cdot}) + (C_{\cdot})(x_{\cdot})^2))}{(\text{Sqrt}[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]\text{Sqrt}[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\text{Sqrt}[(g_{\cdot}) + (h_{\cdot})(x_{\cdot})])}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(A b^2 - a b B + a^2 C)(a + b x)^{(m+1)} \text{Sqrt}[c + dx] \text{Sqrt}[e + fx] (\text{Sqrt}[g + hx] / ((m + 1)(b c - a d)(b e - a f)(b g - a h))), x] - \text{Simp}[1/(2(m + 1)(b c - a d)(b e - a f)(b g -$

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a*h)) Int[((a + b*x)^(m + 1)/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g +
h*x]))*Simp[A*(2*a^2*d*f*h*(m + 1) - 2*a*b*(m + 1)*(d*f*g + d*e*h + c*
f*h) + b^2*(2*m + 3)*(d*e*g + c*f*g + c*e*h)) - (b*B - a*C)*(a*(d*e*g
+ c*f*g + c*e*h) + 2*b*c*e*g*(m + 1)) - 2*((A*b - a*B)*(a*d*f*h*(m + 1
) - b*(m + 2)*(d*f*g + d*e*h + c*f*h)) - C*(a^2*(d*f*g + d*e*h + c*f*h
) - b^2*c*e*g*(m + 1) + a*b*(m + 1)*(d*e*g + c*f*g + c*e*h)))*x + d*f*
h*(2*m + 5)*(A*b^2 - a*b*B + a^2*C)*x^2, x], x] /; FreeQ[{a, b, c,
d, e, f, g, h, A, B, C}, x] && IntegerQ[2*m] && LtQ[m, -1]

```
2108. `Int[(((a_.) + (b_.)*(x_.))^(m_.)*((A_.) + (C_.)*(x_.^2)))/(Sqrt[(c_.) + (d_.)*(x_.)]*Sqrt[(e_.) + (f_.)*(x_.)]*Sqrt[(g_.) + (h_.)*(x_.)]), x_Symbol] := Simp[(A*b^2 + a^2*C)*(a + b*x)^(m + 1)*Sqrt[c + d*x]*Sqrt[e + f*x]*(Sqrt[g + h*x]/((m + 1)*(b*c - a*d)*(b*e - a*f)*(b*g - a*h))), x] - Simp[1/(2*(m + 1)*(b*c - a*d)*(b*e - a*f)*(b*g - a*h)) Int[((a + b*x)^(m + 1)/(Sqrt[c + d*x]*Sqrt[e + f*x]*Sqrt[g + h*x]))*Simp[A*(2*a^2*d*f*h*(m + 1) - 2*a*b*(m + 1)*(d*f*g + d*e*h + c*f*h) + b^2*(2*m + 3)*(d*e*g + c*f*g + c*e*h)) + a*C*(a*(d*e*g + c*f*g + c*e*h) + 2*b*c*e*g*(m + 1)) - 2*(A*b*(a*d*f*h*(m + 1) - b*(m + 2)*(d*f*g + d*e*h + c*f*h)) - C*(a^2*(d*f*g + d*e*h + c*f*h) - b^2*c*e*g*(m + 1) + a*b*(m + 1)*(d*e*g + c*f*g + c*e*h)))*x + d*f*h*(2*m + 5)*(A*b^2 + a^2*C)*x^2, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, A, C}, x] && IntegerQ[2*m] && LtQ[m, -1]`
2109. `Int[(Px_)*((a_.) + (b_.)*(x_.))^(m_.)*((c_.) + (d_.)*(x_.))^(n_.)*((e_.) + (f_.)*(x_.))^(p_.)*((g_.) + (h_.)*(x_.))^(q_.), x_Symbol] := Int[ExpandIntegrand[Px*(a + b*x)^m*(c + d*x)^n*(e + f*x)^p*(g + h*x)^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, p, q}, x] && PolyQ[Px, x] && IntegersQ[m, n]`
2110. `Int[(Px_)*((a_.) + (b_.)*(x_.))^(m_.)*((c_.) + (d_.)*(x_.))^(n_.)*((e_.) + (f_.)*(x_.))^(p_.)*((g_.) + (h_.)*(x_.))^(q_.), x_Symbol] := Simp[PolynomialRemainder[Px, a + b*x, x] Int[(a + b*x)^m*(c + d*x)^n*(e + f*x)^p*(g + h*x)^q, x], x] + Int[PolynomialQuotient[Px, a + b*x, x]*(a + b*x)^(m + 1)*(c + d*x)^n*(e + f*x)^p*(g + h*x)^q, x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, p, q}, x] && PolyQ[Px, x] && EqQ[m, -1]`

2111. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)*(x_))^(p_.)*((g_.) + (h_.)*(x_))^(q_.), x_Symbol] := Simp[PolynomialRemainder[Px, a + b*x, x] Int[(a + b*x)^m*(c + d*x)^n*(e + f*x)^p*(g + h*x)^q, x], x] + Int[PolynomialQuotient[Px, a + b*x, x]*(a + b*x)^(m + 1)*(c + d*x)^n*(e + f*x)^p*(g + h*x)^q, x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, p, q}, x] && PolyQ[Px, x]`
2112. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)*(x_))^(p_.), x_Symbol] := Int[Px*(a*c + b*d*x^2)^m*(e + f*x)^p, x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && PolyQ[Px, x] && EqQ[b*c + a*d, 0] && EqQ[m, n] && (IntegerQ[m] || (GtQ[a, 0] && GtQ[c, 0]))`
2113. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)*(x_))^(p_.), x_Symbol] := Simp[(a + b*x)^FracPart[m]*((c + d*x)^FracPart[m]/(a*c + b*d*x^2)^FracPart[m]) Int[Px*(a*c + b*d*x^2)^m*(e + f*x)^p, x], x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && PolyQ[Px, x] && EqQ[b*c + a*d, 0] && EqQ[m, n] && !IntegerQ[m]`
2114. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)*(x_))^(p_.), x_Symbol] := Int[PolynomialQuotient[Px, a + b*x, x]*(a + b*x)^(m + 1)*(c + d*x)^n*(e + f*x)^p, x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && PolyQ[Px, x] && EqQ[PolynomialRemainder[Px, a + b*x, x], 0]`
2115. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)*(x_))^(p_.), x_Symbol] := Int[ExpandIntegrand[Px*(a + b*x)^m*(c + d*x)^n*(e + f*x)^p, x], x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && PolyQ[Px, x] && IntegerQ[m, n]`
2116. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.)*((e_.) + (f_.)*(x_))^(p_.), x_Symbol] := With[{Qx = PolynomialQuotient[Px, a + b*x, x], R = PolynomialRemainder[Px, a + b*x, x]}, Simp[b*R*(a + b*x)^(m + 1)*(c + d*x)^(n + 1)*((e + f*x)^(p + 1)/((m + 1)*(b*c - a*d)*(b*e - a*f))), x] + Simp[1/((m + 1)*(b*c - a*d)*(b*e - a*f)) Int[(a + b*x)^(m + 1)*(c + d*x)^n*(e + f*x)^p*ExpandToSum[(m + 1)*(b*c - a*d)*(b*e - a*f)*Qx + a*d*f*R*(m + 1) - b*R*(d*e*(m + n + 2) + c*f*(m + p +`

- 2)) - b\*d\*f\*R\*(m + n + p + 3)\*x, x], x], x]] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && PolyQ[Px, x] && ILtQ[m, -1]
2117. Int[(Px\_)\*((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_)\*((e\_.) + (f\_.)\*(x\_))^(p\_), x\_Symbol] :> With[{Qx = PolynomialQuotient[Px, a + b\*x, x], R = PolynomialRemainder[Px, a + b\*x, x]}, Simp[b\*R\*(a + b\*x)^(m + 1)\*(c + d\*x)^(n + 1)\*((e + f\*x)^(p + 1)/((m + 1)\*(b\*c - a\*d)\*(b\*e - a\*f))), x] + Simp[1/((m + 1)\*(b\*c - a\*d)\*(b\*e - a\*f)) Int[(a + b\*x)^(m + 1)\*(c + d\*x)^n\*(e + f\*x)^p\*ExpandToSum[(m + 1)\*(b\*c - a\*d)\*(b\*e - a\*f)\*Qx + a\*d\*f\*R\*(m + 1) - b\*R\*(d\*e\*(m + n + 2) + c\*f\*(m + p + 2)) - b\*d\*f\*R\*(m + n + p + 3)\*x, x], x], x]] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && PolyQ[Px, x] && LtQ[m, -1] && IntegersQ[2\*m, 2\*n, 2\*p]
2118. Int[(Px\_)\*((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_)\*((e\_.) + (f\_.)\*(x\_))^(p\_), x\_Symbol] :> With[{q = Expon[Px, x], k = Coeff[Px, x, Expon[Px, x]]}, Simp[k\*(a + b\*x)^(m + q - 1)\*(c + d\*x)^(n + 1)\*((e + f\*x)^(p + 1)/(d\*f\*b^(q - 1)\*(m + n + p + q + 1))), x] + Simp[1/(d\*f\*b^q\*(m + n + p + q + 1)) Int[(a + b\*x)^m\*(c + d\*x)^n\*(e + f\*x)^p\*ExpandToSum[d\*f\*b^q\*(m + n + p + q + 1)\*Px - d\*f\*k\*(m + n + p + q + 1)\*(a + b\*x)^q + k\*(a + b\*x)^(q - 2)\*(a^2\*d\*f\*(m + n + p + q + 1) - b\*(b\*c\*e\*(m + q - 1) + a\*(d\*e\*(n + 1) + c\*f\*(p + 1))) + b\*(a\*d\*f\*(2\*(m + q) + n + p) - b\*(d\*e\*(m + q + n) + c\*f\*(m + q + p)))\*x], x], x]] /; NeQ[m + n + p + q + 1, 0]] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && PolyQ[Px, x]
2119. Int[(Px\_)\*((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_), x\_Symbol] :> Int[Px\*(a\*c + b\*d\*x^2)^m, x] /; FreeQ[{a, b, c, d, m, n}, x] && PolyQ[Px, x] && EqQ[b\*c + a\*d, 0] && EqQ[m, n] && (IntegerQ[m] || (GtQ[a, 0] && GtQ[c, 0]))
2120. Int[(Px\_)\*((a\_.) + (b\_.)\*(x\_))^(m\_)\*((c\_.) + (d\_.)\*(x\_))^(n\_), x\_Symbol] :> Simp[(a + b\*x)^FracPart[m]\*((c + d\*x)^FracPart[m]/(a\*c + b\*d\*x^2)^FracPart[m]) Int[Px\*(a\*c + b\*d\*x^2)^m, x], x] /; FreeQ[{a, b, c, d, m, n}, x] && PolyQ[Px, x] && EqQ[b\*c + a\*d, 0] && EqQ[m, n] && !IntegerQ[m]



2121. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.), x_Symbol]
:> Int[PolynomialQuotient[Px, a + b*x, x]*(a + b*x)^(m + 1)*(c + d*x)^n, x] /; FreeQ[{a, b, c, d, m, n}, x] && PolyQ[Px, x] && EqQ[PolynomialRemainder[Px, a + b*x, x], 0]`
2122. `Int[((Px_)*((c_.) + (d_.)*(x_))^(n_))/((a_.) + (b_.)*(x_)), x_Symbol]
:> Int[ExpandIntegrand[1/Sqrt[c + d*x], Px*((c + d*x)^(n + 1/2)/(a + b*x)), x], x] /; FreeQ[{a, b, c, d, n}, x] && PolyQ[Px, x] && ILtQ[n + 1/2, 0]`
2123. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.), x_Symbol]
:> Int[ExpandIntegrand[Px*(a + b*x)^m*(c + d*x)^n, x], x] /; FreeQ[{a, b, c, d, m, n}, x] && PolyQ[Px, x] && (IntegerQ[m, n] || IGtQ[m, -2])`
2124. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.), x_Symbol]
:> With[{Qx = PolynomialQuotient[Px, a + b*x, x], R = PolynomialRemainder[Px, a + b*x, x]}, Simp[R*(a + b*x)^(m + 1)*(c + d*x)^(n + 1)/((m + 1)*(b*c - a*d)), x] + Simp[1/((m + 1)*(b*c - a*d)) Int[(a + b*x)^(m + 1)*(c + d*x)^n*ExpandToSum[(m + 1)*(b*c - a*d)*Qx - d*R*(m + n + 2), x], x], x]] /; FreeQ[{a, b, c, d, n}, x] && PolyQ[Px, x] && LtQ[m, -1] && (IntegerQ[m] || !ILtQ[n, -1])`
2125. `Int[(Px_)*((a_.) + (b_.)*(x_))^(m_.)*((c_.) + (d_.)*(x_))^(n_.), x_Symbol]
:> With[{q = Expon[Px, x], k = Coeff[Px, x, Expon[Px, x]]}, Simp[k*(a + b*x)^(m + q)*(c + d*x)^(n + 1)/(d*b^q*(m + n + q + 1)), x] + Simp[1/(d*b^q*(m + n + q + 1)) Int[(a + b*x)^m*(c + d*x)^n*ExpandToSum[d*b^q*(m + n + q + 1)*Px - d*k*(m + n + q + 1)*(a + b*x)^q - k*(b*c - a*d)*(m + q)*(a + b*x)^(q - 1), x], x], x]] /; NeQ[m + n + q + 1, 0] /; FreeQ[{a, b, c, d, m, n}, x] && PolyQ[Px, x]`
2126. `Int[(Px_)*((a_) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_.)*((d_) + (e_.)*(x_) + (f_.)*(x_)^2)^(q_.), x_Symbol]
:> Simp[(c/f)^p Int[Px*(d + e*x + f*x^2)^(p + q), x], x] /; FreeQ[{a, b, c, d, e, f, p, q}, x] && PolyQ[Px, x] && EqQ[c*d - a*f, 0] && EqQ[b*d - a*e, 0] && (IntegerQ[p] || GtQ[c/f, 0]) && (!IntegerQ[q] || LeafCount[d + e*x + f*x^2] <= LeafCount[a + b*x + c*x^2])`

2127.  $\text{Int}[(Px_*)*((a_*) + (b_*)*(x_*) + (c_*)*(x_*)^2)^{(p_*)}*((d_*) + (e_*)*(x_*) + (f_*)*(x_*)^2)^{(q_*)}, x\_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[p]}*((a + b*x + c*x^2)^{\text{FracPart}[p]}/(d^{\text{IntPart}[p]}*(d + e*x + f*x^2)^{\text{FracPart}[p]})) \text{Int}[Px*(d + e*x + f*x^2)^{(p + q)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p, q\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{EqQ}[c*d - a*f, 0] \&\& \text{EqQ}[b*d - a*e, 0] \&\& !\text{IntegerQ}[p] \&\& !\text{IntegerQ}[q] \&\& !\text{GtQ}[c/f, 0]$
2128.  $\text{Int}[(Px_*)*((a_*) + (b_*)*(x_*) + (c_*)*(x_*)^2)^{(p_*)}*((d_*) + (e_*)*(x_*) + (f_*)*(x_*)^2)^{(q_*)}, x\_Symbol] \rightarrow \text{Simp}[1/c^p \text{Int}[Px*(b/2 + c*x)^{(2*p)}*(d + e*x + f*x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p, q\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
2129.  $\text{Int}[(Px_*)*((a_*) + (b_*)*(x_*) + (c_*)*(x_*)^2)^{(p_*)}*((d_*) + (f_*)*(x_*)^2)^{(q_*)}, x\_Symbol] \rightarrow \text{Simp}[1/c^p \text{Int}[Px*(b/2 + c*x)^{(2*p)}*(d + f*x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, f, p, q\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
2130.  $\text{Int}[(Px_*)*((a_*) + (b_*)*(x_*) + (c_*)*(x_*)^2)^{(p_*)}*((d_*) + (e_*)*(x_*) + (f_*)*(x_*)^2)^{(q_*)}, x\_Symbol] \rightarrow \text{Simp}[(a + b*x + c*x^2)^{\text{FracPart}[p]}/((4*c)^{\text{IntPart}[p]}*(b + 2*c*x)^{(2*\text{FracPart}[p]})) \text{Int}[(b + 2*c*x)^{(2*p)}*(d + e*x + f*x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, p, q\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
2131.  $\text{Int}[(Px_*)*((a_*) + (b_*)*(x_*) + (c_*)*(x_*)^2)^{(p_*)}*((d_*) + (f_*)*(x_*)^2)^{(q_*)}, x\_Symbol] \rightarrow \text{Simp}[(a + b*x + c*x^2)^{\text{FracPart}[p]}/((4*c)^{\text{IntPart}[p]}*(b + 2*c*x)^{(2*\text{FracPart}[p]})) \text{Int}[(b + 2*c*x)^{(2*p)}*(d + f*x^2)^q, x], x] /; \text{FreeQ}\{a, b, c, d, f, p, q\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
2132.  $\text{Int}[(Px_*)*((a_*) + (b_*)*(x_*) + (c_*)*(x_*)^2)^{(p_*)}*((d_*) + (e_*)*(x_*) + (f_*)*(x_*)^2)^{(q_*)}, x\_Symbol] \rightarrow \text{With}\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1], C = \text{Coeff}[Px, x, 2]\}, \text{Simp}[(A*b*c - 2*a*B*c + a*b*C - (c*(b*B - 2*A*c) - C*(b^2 - 2*a*c))*x]*(a + b*x + c*x^2)^{(p + 1)}*((d + e*x + f*x^2)^q/(c*(b^2 - 4*a*c)*(p + 1))), x] - \text{Simp}[1/(c*(b^2 - 4*a*c)*(p + 1)) \text{Int}[(a + b*x + c*x^2)^{(p + 1)}*(d + e*x + f*x^2)^{(q - 1)}*\text{Simp}[e*q*(A*b*c - 2*a*B*c + a*b*C) - d*(c*(b*B - 2*A*c)*(2*p + 3) + C*(2*a$

```
c - b^2(p + 2))) + (2*f*q*(A*b*c - 2*a*B*c + a*b*C) - e*(c*(b*B - 2*
A*c)*(2*p + q + 3) + C*(2*a*c*(q + 1) - b^2*(p + q + 2))))*x - f*(c*(b
*B - 2*A*c)*(2*p + 2*q + 3) + C*(2*a*c*(2*q + 1) - b^2*(p + 2*q + 2)))
*x^2, x], x], x]] /; FreeQ[{a, b, c, d, e, f}, x] && PolyQ[Px, x, 2] &
& LtQ[p, -1] && GtQ[q, 0] && !IGtQ[q, 0]
```

2133. `Int[(Px_)*((a_) + (c_)*(x_)^2)^(p_)*((d_) + (e_)*(x_) + (f_)*(x_)^2)^(q_), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x, 2]}, Simp[(a*B - (A*c - a*C)*x)*(a + c*x^2)^(p + 1)*((d + e*x + f*x^2)^q/(2*a*c*(p + 1))), x] - Simp[2/((-4*a*c)*(p + 1)) Int[(a + c*x^2)^(p + 1)*(d + e*x + f*x^2)^(q - 1)*Simp[A*c*d*(2*p + 3) - a*(C*d + B*e*q) + (A*c*e*(2*p + q + 3) - a*(2*B*f*q + C*e*(q + 1)))*x - f*(a*C*(2*q + 1) - A*c*(2*p + 2*q + 3))*x^2, x], x], x]] /; FreeQ[{a, c, d, e, f}, x] && PolyQ[Px, x, 2] && LtQ[p, -1] && GtQ[q, 0] && !IGtQ[q, 0]`

2134. `Int[(Px_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_)*((d_) + (f_)*(x_)^2)^(q_), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x, 2]}, Simp[(A*b*c - 2*a*B*c + a*b*C - (c*(b*B - 2*A*c) - C*(b^2 - 2*a*c))*x)*(a + b*x + c*x^2)^(p + 1)*((d + f*x^2)^q/(c*(b^2 - 4*a*c)*(p + 1))), x] - Simp[1/(c*(b^2 - 4*a*c)*(p + 1)) Int[(a + b*x + c*x^2)^(p + 1)*(d + f*x^2)^(q - 1)*Simp[(-d)*(c*(b*B - 2*A*c)*(2*p + 3) + C*(2*a*c - b^2*(p + 2))) + (2*f*q*(A*b*c - 2*a*B*c + a*b*C))*x - f*(c*(b*B - 2*A*c)*(2*p + 2*q + 3) + C*(2*a*c*(2*q + 1) - b^2*(p + 2*q + 2)))*x^2, x], x], x]] /; FreeQ[{a, b, c, d, f}, x] && PolyQ[Px, x, 2] && LtQ[p, -1] && GtQ[q, 0] && !IGtQ[q, 0]`

2135. `Int[(Px_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_)*((d_) + (e_)*(x_) + (f_)*(x_)^2)^(q_), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x, 2]}, Simp[(a + b*x + c*x^2)^(p + 1)*((d + e*x + f*x^2)^q)/((b^2 - 4*a*c)*((c*d - a*f)^2 - (b*d - a*e)*(c*e - b*f))*(p + 1))*((A*c - a*C)*(2*a*c*e - b*(c*d + a*f)) + (A*b - a*B)*(2*c^2*d + b^2*f - c*(b*e + 2*a*f)) + c*(A*(2*c^2*d + b^2*f - c*(b*e + 2*a*f)) - B*(b*c*d - 2*a*c*e + a*b*f) + C*(b^2*d - a*b*e - 2*a*(c*d - a*f)))*x), x] + Simp[1/((b^2 - 4*a*c)*((c*d - a*f)^2 - (b*d - a*e)*(c*e - b*f))*(p + 1)) Int[(a + b*x + c*x^2)^(p + 1)*(d + e*x + f*x^2)^q*Simp[(b*B - 2*A*c - 2*a*C)*((c*d - a*f)^2 - (b*d - a*e)*(c*e - b*f))*(p + 1) + (b^2*(C*d + A*f) - b*(B*c*d + A*c*e + a*C*e + a*B*f) + 2*`

```
(A*c*(c*d - a*f) - a*(c*C*d - B*c*e - a*C*f))*a*f*(p + 1) - c*d*(p +
2)) - e*((A*c - a*C)*(2*a*c*e - b*(c*d + a*f)) + (A*b - a*B)*(2*c^2*d
+ b^2*f - c*(b*e + 2*a*f)))*(p + q + 2) - (2*f*((A*c - a*C)*(2*a*c*e
- b*(c*d + a*f)) + (A*b - a*B)*(2*c^2*d + b^2*f - c*(b*e + 2*a*f)))*(p
+ q + 2) - (b^2*(C*d + A*f) - b*(B*c*d + A*c*e + a*C*e + a*B*f) + 2*(
A*c*(c*d - a*f) - a*(c*C*d - B*c*e - a*C*f)))*(b*f*(p + 1) - c*e*(2*p
+ q + 4))*x - c*f*(b^2*(C*d + A*f) - b*(B*c*d + A*c*e + a*C*e + a*B*f
) + 2*(A*c*(c*d - a*f) - a*(c*C*d - B*c*e - a*C*f)))*(2*p + 2*q + 5)*x
^2, x], x], x]] /; FreeQ[{a, b, c, d, e, f, q}, x] && PolyQ[Px, x, 2]
&& LtQ[p, -1] && NeQ[(c*d - a*f)^2 - (b*d - a*e)*(c*e - b*f), 0] && !
(!IntegerQ[p] && ILtQ[q, -1]) && !IGtQ[q, 0]
```

2136. `Int[(Px_)*((a_) + (c_.)*(x_)^2)^(p_)*((d_) + (e_.)*(x_) + (f_.)*(x_)^2)^(q_), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x, 2]}, Simp[(a + c*x^2)^(p + 1)*(d + e*x + f*x^2)^(q + 1)/((-4*a*c)*(a*c*e^2 + (c*d - a*f)^2)*(p + 1))*((A*c - a*C)*(2*a*c*e) + ((-a)*B)*(2*c^2*d - c*(2*a*f)) + c*(A*(2*c^2*d - c*(2*a*f)) - B*(-2*a*c*e) + C*(-2*a*(c*d - a*f)))*x), x] + Simp[1/((-4*a*c)*(a*c*e^2 + (c*d - a*f)^2)*(p + 1)) Int[(a + c*x^2)^(p + 1)*(d + e*x + f*x^2)^q*Simp[(-2*A*c - 2*a*C)*((c*d - a*f)^2 - ((-a)*e)*(c*e))*(p + 1) + (2*(A*c*(c*d - a*f) - a*(c*C*d - B*c*e - a*C*f)))*(a*f*(p + 1) - c*d*(p + 2)) - e*((A*c - a*C)*(2*a*c*e) + ((-a)*B)*(2*c^2*d - c*(Plus[2])*a*f)))*(p + q + 2) - (2*f*((A*c - a*C)*(2*a*c*e) + ((-a)*B)*(2*c^2*d + (-c)*(Plus[2])*a*f)))*(p + q + 2) - (2*(A*c*(c*d - a*f) - a*(c*C*d - B*c*e - a*C*f)))*((-c)*e*(2*p + q + 4))*x - c*f*(2*(A*c*(c*d - a*f) - a*(c*C*d - B*c*e - a*C*f)))*(2*p + 2*q + 5)*x^2, x], x]] /; FreeQ[{a, c, d, e, f, q}, x] && PolyQ[Px, x, 2] && LtQ[p, -1] && NeQ[a*c*e^2 + (c*d - a*f)^2, 0] && !(IntegerQ[p] && ILtQ[q, -1]) && !IGtQ[q, 0]`

2137. `Int[(Px_)*((a_) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_) + (f_.)*(x_)^2)^(q_), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x, 2]}, Simp[(a + b*x + c*x^2)^(p + 1)*(d + f*x^2)^(q + 1)/((b^2 - 4*a*c)*(b^2*d*f + (c*d - a*f)^2)*(p + 1))*((A*c - a*C)*((-b)*(c*d + a*f)) + (A*b - a*B)*(2*c^2*d + b^2*f - c*(2*a*f)) + c*(A*(2*c^2*d + b^2*f - c*(2*a*f)) - B*(b*c*d + a*b*f) + C*(b^2*d - 2*a*(c*d - a*f)))*x), x] + Simp[1/((b^2 - 4*a*c)*(b^2*d*f + (c*d - a*f)^2)*(p + 1)) Int[(a + b*x + c*x^2)^(p + 1)*(d + f*x^2)^q*Simp[(b*B - 2*A*c - 2*a*C)*((c*d - a*f)^2 - (b*d)*((-b)*f))*(p + 1) + (b^2*(C*d + A*f) - b`

```

*(B*c*d + a*B*f) + 2*(A*c*(c*d - a*f) - a*(c*C*d - a*C*f)))*(a*f*(p +
1) - c*d*(p + 2)) - (2*f*((A*c - a*C)*((-b)*(c*d + a*f)) + (A*b - a*B)
*(2*c^2*d + b^2*f - c*(2*a*f)))*(p + q + 2) - (b^2*(C*d + A*f) - b*(B*
c*d + a*B*f) + 2*(A*c*(c*d - a*f) - a*(c*C*d - a*C*f)))*(b*f*(p + 1)))
*x - c*f*(b^2*(C*d + A*f) - b*(B*c*d + a*B*f) + 2*(A*c*(c*d - a*f) -
a*(c*C*d - a*C*f)))*(2*p + 2*q + 5)*x^2, x], x]] /; FreeQ[{a, b, c,
d, f, q}, x] && PolyQ[Px, x, 2] && LtQ[p, -1] && NeQ[b^2*d*f + (c*d -
a*f)^2, 0] && !(IntegerQ[p] && ILtQ[q, -1]) && !IGtQ[q, 0]

```

2138. `Int[(Px_)*((a_) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_)*((d_) + (e_.)*(x_) + (f_.)*(x_)^2)^(q_), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x, 2]}, Simp[(B*c*f*(2*p + 2*q + 3) + C*(b*f*p - c*e*(2*p + q + 2)) + 2*c*C*f*(p + q + 1)*x*(a + b*x + c*x^2)^p*(d + e*x + f*x^2)^(q + 1)/(2*c*f^2*(p + q + 1)*(2*p + 2*q + 3)), x] - Simp[1/(2*c*f^2*(p + q + 1)*(2*p + 2*q + 3)) Int[(a + b*x + c*x^2)^(p - 1)*(d + e*x + f*x^2)^q*Simp[p*(b*d - a*e)*(C*(c*e - b*f)*(q + 1) - c*(C*e - B*f)*(2*p + 2*q + 3)) + (p + q + 1)*(b^2*C*d*f*p + a*c*(C*(2*d*f - e^2*(2*p + q + 2)) + f*(B*e - 2*A*f)*(2*p + 2*q + 3)))] + (2*p*(c*d - a*f)*(C*(c*e - b*f)*(q + 1) - c*(C*e - B*f)*(2*p + 2*q + 3)) + (p + q + 1)*(C*e*f*p*(b^2 - 4*a*c) - b*c*(C*(e^2 - 4*d*f)*(2*p + q + 2) + f*(2*C*d - B*e + 2*A*f)*(2*p + 2*q + 3)))]*x + (p*(c*e - b*f)*(C*(c*e - b*f)*(q + 1) - c*(C*e - B*f)*(2*p + 2*q + 3)) + (p + q + 1)*(C*f^2*p*(b^2 - 4*a*c) - c^2*(C*(e^2 - 4*d*f)*(2*p + q + 2) + f*(2*C*d - B*e + 2*A*f)*(2*p + 2*q + 3)))]*x^2, x], x]] /; FreeQ[{a, b, c, d, e, f, q}, x] && PolyQ[Px, x, 2] && GtQ[p, 0] && NeQ[p + q + 1, 0] && NeQ[2*p + 2*q + 3, 0] && !IGtQ[p, 0] && !IGtQ[q, 0]`

2139. `Int[(Px_)*((a_) + (c_.)*(x_)^2)^(p_)*((d_) + (e_.)*(x_) + (f_.)*(x_)^2)^(q_), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x, 2]}, Simp[(B*c*f*(2*p + 2*q + 3) + C*((-c)*e*(2*p + q + 2)) + 2*c*C*f*(p + q + 1)*x*(a + c*x^2)^p*(d + e*x + f*x^2)^(q + 1)/(2*c*f^2*(p + q + 1)*(2*p + 2*q + 3)), x] - Simp[1/(2*c*f^2*(p + q + 1)*(2*p + 2*q + 3)) Int[(a + c*x^2)^(p - 1)*(d + e*x + f*x^2)^q*Simp[p*(-a)*e*(C*(c*e)*(q + 1) - c*(C*e - B*f)*(2*p + 2*q + 3)) + (p + q + 1)*(a*c*(C*(2*d*f - e^2*(2*p + q + 2)) + f*(B*e - 2*A*f)*(2*p + 2*q + 3)))] + (2*p*(c*d - a*f)*(C*(c*e)*(q + 1) - c*(C*e - B*f)*(2*p + 2*q + 3)) + (p + q + 1)*(C*e*f*p*(-4*a*c)))]*x + (p*(c*e)*(C*(c*e)*(q + 1) - c*(C*e - B*f)*(2*p + 2*q + 3)) + (p + q + 1)*(C*f^2*p*(-4*a*c) -`

```

c^2*(C*(e^2 - 4*d*f)*(2*p + q + 2) + f*(2*C*d - B*e + 2*A*f)*(2*p + 2*
q + 3))))*x^2, x], x], x]] /; FreeQ[{a, c, d, e, f, q}, x] && PolyQ[Px
, x, 2] && GtQ[p, 0] && NeQ[p + q + 1, 0] && NeQ[2*p + 2*q + 3, 0] &&
!IGtQ[p, 0] && !IGtQ[q, 0]

```

```

2140. Int[(Px_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_)*((d_) + (f_)*(x_)^2
)^(q_), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C
= Coeff[Px, x, 2]}, Simp[(B*c*f*(2*p + 2*q + 3) + C*(b*f*p) + 2*c*C*f
*(p + q + 1)*x)*(a + b*x + c*x^2)^p*((d + f*x^2)^(q + 1)/(2*c*f^2*(p +
q + 1)*(2*p + 2*q + 3))), x] - Simp[1/(2*c*f^2*(p + q + 1)*(2*p + 2*q
+ 3)) Int[(a + b*x + c*x^2)^(p - 1)*(d + f*x^2)^q*Simp[p*(b*d)*(C*(
(-b)*f)*(q + 1) - c*((-B)*f)*(2*p + 2*q + 3)) + (p + q + 1)*(b^2*C*d*f
*p + a*c*(C*(2*d*f) + f*(-2*A*f)*(2*p + 2*q + 3)) + (2*p*(c*d - a*f)*
(C*((-b)*f)*(q + 1) - c*((-B)*f)*(2*p + 2*q + 3)) + (p + q + 1)*((-b)*
c*(C*(-4*d*f)*(2*p + q + 2) + f*(2*C*d + 2*A*f)*(2*p + 2*q + 3)))]*x +
(p*((-b)*f)*(C*((-b)*f)*(q + 1) - c*((-B)*f)*(2*p + 2*q + 3)) + (p +
q + 1)*(C*f^2*p*(b^2 - 4*a*c) - c^2*(C*(-4*d*f)*(2*p + q + 2) + f*(2*C
*d + 2*A*f)*(2*p + 2*q + 3)))]*x^2, x], x], x]] /; FreeQ[{a, b, c, d,
f, q}, x] && PolyQ[Px, x, 2] && GtQ[p, 0] && NeQ[p + q + 1, 0] && NeQ[
2*p + 2*q + 3, 0] && !IGtQ[p, 0] && !IGtQ[q, 0]

```

```

2141. Int[(Px_)/(((a_) + (b_)*(x_) + (c_)*(x_)^2)*((d_) + (e_)*(x_) + (f_
.)*(x_)^2)), x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x,
1], C = Coeff[Px, x, 2], q = c^2*d^2 - b*c*d*e + a*c*e^2 + b^2*d*f - 2
*a*c*d*f - a*b*e*f + a^2*f^2}, Simp[1/q Int[(A*c^2*d - a*c*C*d - A*b
*c*e + a*B*c*e + A*b^2*f - a*b*B*f - a*A*c*f + a^2*C*f + c*(B*c*d - b*
C*d - A*c*e + a*C*e + A*b*f - a*B*f)*x)/(a + b*x + c*x^2), x], x] + Si
mp[1/q Int[(c*C*d^2 - B*c*d*e + A*c*e^2 + b*B*d*f - A*c*d*f - a*C*d*
f - A*b*e*f + a*A*f^2 - f*(B*c*d - b*C*d - A*c*e + a*C*e + A*b*f - a*B
*f)*x)/(d + e*x + f*x^2), x], x] /; NeQ[q, 0] /; FreeQ[{a, b, c, d, e
, f}, x] && PolyQ[Px, x, 2]

```

```

2142. Int[(Px_)/(((a_) + (b_)*(x_) + (c_)*(x_)^2)*((d_) + (f_)*(x_)^2)),
x_Symbol] := With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff
[Px, x, 2], q = c^2*d^2 + b^2*d*f - 2*a*c*d*f + a^2*f^2}, Simp[1/q I
nt[(A*c^2*d - a*c*C*d + A*b^2*f - a*b*B*f - a*A*c*f + a^2*C*f + c*(B*c
*d - b*C*d + A*b*f - a*B*f)*x)/(a + b*x + c*x^2), x], x] + Simp[1/q
Int[(c*C*d^2 + b*B*d*f - A*c*d*f - a*C*d*f + a*A*f^2 - f*(B*c*d - b*C*

```

- $$\frac{d + A*b*f - a*B*f}{d + f*x^2}, x, x] /; \text{NeQ}[q, 0] /; \text{FreeQ}[\{a, b, c, d, f\}, x] \ \&\& \ \text{PolyQ}[Px, x, 2]$$
2143.  $\text{Int}[(Px\_)/(((a\_)+(b\_)*(x\_)+(c\_)*(x\_)^2)*\text{Sqrt}[(d\_)+(e\_)*(x\_)+(f\_)*(x\_)^2]), x\_Symbol] \rightarrow \text{With}[\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1], C = \text{Coeff}[Px, x, 2]\}, \text{Simp}[C/c \ \text{Int}[1/\text{Sqrt}[d + e*x + f*x^2], x], x] + \text{Simp}[1/c \ \text{Int}[(A*c - a*C + (B*c - b*C)*x)/((a + b*x + c*x^2)*\text{Sqrt}[d + e*x + f*x^2]), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{PolyQ}[Px, x, 2]$
2144.  $\text{Int}[(Px\_)/(((a\_)+(c\_)*(x\_)^2)*\text{Sqrt}[(d\_)+(e\_)*(x\_)+(f\_)*(x\_)^2]), x\_Symbol] \rightarrow \text{With}[\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1], C = \text{Coeff}[Px, x, 2]\}, \text{Simp}[C/c \ \text{Int}[1/\text{Sqrt}[d + e*x + f*x^2], x], x] + \text{Simp}[1/c \ \text{Int}[(A*c - a*C + B*c*x)/((a + c*x^2)*\text{Sqrt}[d + e*x + f*x^2]), x], x]] /; \text{FreeQ}[\{a, c, d, e, f\}, x] \ \&\& \ \text{PolyQ}[Px, x, 2]$
2145.  $\text{Int}[(Px\_)/(((a\_)+(b\_)*(x\_)+(c\_)*(x\_)^2)*\text{Sqrt}[(d\_)+(f\_)*(x\_)^2]), x\_Symbol] \rightarrow \text{With}[\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1], C = \text{Coeff}[Px, x, 2]\}, \text{Simp}[C/c \ \text{Int}[1/\text{Sqrt}[d + f*x^2], x], x] + \text{Simp}[1/c \ \text{Int}[(A*c - a*C + (B*c - b*C)*x)/((a + b*x + c*x^2)*\text{Sqrt}[d + f*x^2]), x], x]] /; \text{FreeQ}[\{a, b, c, d, f\}, x] \ \&\& \ \text{PolyQ}[Px, x, 2]$
2146.  $\text{Int}[(a\_ + (b\_)*(u\_)+(c\_)*(u\_)^2)^(p\_)*((A\_)+(B\_)*(u\_)+(C\_)*(u\_)^2)*((d\_)+(e\_)*(u\_)+(f\_)*(u\_)^2)^(q\_), x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \ \text{Subst}[\text{Int}[(a + b*x + c*x^2)^p*(d + e*x + f*x^2)^q*(A + B*x + C*x^2), x], x, u], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, p, q\}, x] \ \&\& \ \text{LinearQ}[u, x] \ \&\& \ \text{NeQ}[u, x]$
2147.  $\text{Int}[(A\_ + (B\_)*(u\_))*((a\_)+(b\_)*(u\_)+(c\_)*(u\_)^2)^(p\_)*((d\_)+(e\_)*(u\_)+(f\_)*(u\_)^2)^(q\_), x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \ \text{Subst}[\text{Int}[(a + b*x + c*x^2)^p*(d + e*x + f*x^2)^q*(A + B*x), x], x, u], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, p, q\}, x] \ \&\& \ \text{LinearQ}[u, x] \ \&\& \ \text{NeQ}[u, x]$
2148.  $\text{Int}[(a\_ + (b\_)*(u\_)+(c\_)*(u\_)^2)^(p\_)*((A\_)+(C\_)*(u\_)^2)*((d\_)+(e\_)*(u\_)+(f\_)*(u\_)^2)^(q\_), x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \ \text{Subst}[\text{Int}[(a + b*x + c*x^2)^p*(d + e*x + f*x^2)^q*(A +$

- $Cx^2$ ),  $x]$ ,  $x$ ,  $u]$ ,  $x]$  /; FreeQ[{a, b, c, d, e, f, A, C, p, q}, x] && LinearQ[u, x] && NeQ[u, x]
2149. Int[((a\_.) + (c\_.)\*(u\_)^2)^(p\_.)\*((A\_.) + (B\_.)\*(u\_) + (C\_.)\*(u\_)^2)\*(d\_.) + (e\_.)\*(u\_) + (f\_.)\*(u\_)^2)^(q\_.), x\_Symbol] :> Simp[1/Coefficient[u, x, 1] Subst[Int[(a + c\*x^2)^p\*(d + e\*x + f\*x^2)^q\*(A + B\*x + C\*x^2), x], x, u], x] /; FreeQ[{a, c, d, e, f, A, B, C, p, q}, x] && LinearQ[u, x] && NeQ[u, x]
2150. Int[((A\_.) + (B\_.)\*(u\_))\*((a\_.) + (c\_.)\*(u\_)^2)^(p\_.)\*((d\_.) + (e\_.)\*(u\_) + (f\_.)\*(u\_)^2)^(q\_.), x\_Symbol] :> Simp[1/Coefficient[u, x, 1] Subst[Int[(a + c\*x^2)^p\*(d + e\*x + f\*x^2)^q\*(A + B\*x), x], x, u], x] /; FreeQ[{a, c, d, e, f, A, B, C, p, q}, x] && LinearQ[u, x] && NeQ[u, x]
2151. Int[((a\_.) + (c\_.)\*(u\_)^2)^(p\_.)\*((A\_.) + (C\_.)\*(u\_)^2)\*((d\_.) + (e\_.)\*(u\_) + (f\_.)\*(u\_)^2)^(q\_.), x\_Symbol] :> Simp[1/Coefficient[u, x, 1] Subst[Int[(a + c\*x^2)^p\*(d + e\*x + f\*x^2)^q\*(A + C\*x^2), x], x, u], x] /; FreeQ[{a, c, d, e, f, A, C, p, q}, x] && LinearQ[u, x] && NeQ[u, x]
2152. Int[(Px\_)\*((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Int[PolynomialQuotient[Px, d + e\*x, x]\*(d + e\*x)^(m + 1)\*(f + g\*x)^n\*(a + b\*x + c\*x^2)^p, x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && PolynomialQ[Px, x] && EqQ[PolynomialRemainder[Px, d + e\*x, x], 0]
2153. Int[(Px\_)\*((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Int[ExpandIntegrand[Px\*(d + e\*x)^m\*(f + g\*x)^n\*(a + b\*x + c\*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && PolyQ[Px, x] && (IntegerQ[p] || (IntegerQ[2\*p] && IntegerQ[m] && ILtQ[n, 0])) && !(IGtQ[m, 0] && IGtQ[n, 0])
2154. Int[(Px\_)\*((d\_.) + (e\_.)\*(x\_))^(m\_.)\*((f\_.) + (g\_.)\*(x\_))^(n\_.)\*((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Int[PolynomialQuotient[Px, d + e\*x, x]\*(d + e\*x)^(m + 1)\*(f + g\*x)^n\*(a + b\*x + c\*x^2)^p,



- $x] + \text{Simp}[\text{PolynomialRemainder}[Px, d + e*x, x] \quad \text{Int}[(d + e*x)^m*(f + g$   
 $*x)^n*(a + b*x + c*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p\}$   
 $, x] \ \&\& \ \text{PolynomialQ}[Px, x] \ \&\& \ \text{LtQ}[m, 0] \ \&\& \ \text{!IntegerQ}[n] \ \&\& \ \text{IntegersQ}[$   
 $2*m, 2*n, 2*p]$
2155.  $\text{Int}[(Pq_*)*((d_.) + (e_.)*(x_))^{(m_.)}*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[(d + e*x)^{(m + 1)}*\text{PolynomialQuotient}[Pq, d + e*x, x]*(a + b*x + c*x^2)^p, x] /; \text{FreeQ}[\{a, b, c, d, e, m, p\}, x] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{EqQ}[\text{PolynomialRemainder}[Pq, d + e*x, x], 0]$
2156.  $\text{Int}[(Pq_*)*((d_) + (e_.)*(x_))^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[(d + e*x)^{(m + 1)}*\text{PolynomialQuotient}[Pq, d + e*x, x]*(a + b*x^2)^p, x] /; \text{FreeQ}[\{a, b, d, e, m, p\}, x] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{EqQ}[\text{PolynomialRemainder}[Pq, d + e*x, x], 0]$
2157.  $\text{Int}[(P2_*)*((d_.) + (e_.)*(x_))^{(m_.)}*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{f = \text{Coeff}[P2, x, 0], g = \text{Coeff}[P2, x, 1], h = \text{Coeff}[P2, x, 2]\}, \text{Simp}[h*(d + e*x)^{(m + 1)}*((a + b*x + c*x^2)^{(p + 1})/(c*e*(m + 2*p + 3))), x] /; \text{EqQ}[b*e*h*(m + p + 2) + 2*c*d*h*(p + 1) - c*e*g*(m + 2*p + 3), 0] \ \&\& \ \text{EqQ}[b*d*h*(p + 1) + a*e*h*(m + 1) - c*e*f*(m + 2*p + 3), 0] /; \text{FreeQ}[\{a, b, c, d, e, m, p\}, x] \ \&\& \ \text{PolyQ}[P2, x, 2] \ \&\& \ \text{NeQ}[m + 2*p + 3, 0]$
2158.  $\text{Int}[(P2_*)*((d_) + (e_.)*(x_))^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{f = \text{Coeff}[P2, x, 0], g = \text{Coeff}[P2, x, 1], h = \text{Coeff}[P2, x, 2]\}, \text{Simp}[h*(d + e*x)^{(m + 1)}*((a + b*x^2)^{(p + 1})/(b*e*(m + 2*p + 3))), x] /; \text{EqQ}[2*d*h*(p + 1) - e*g*(m + 2*p + 3), 0] \ \&\& \ \text{EqQ}[a*h*(m + 1) - b*f*(m + 2*p + 3), 0] /; \text{FreeQ}[\{a, b, d, e, m, p\}, x] \ \&\& \ \text{PolyQ}[P2, x, 2] \ \&\& \ \text{NeQ}[m + 2*p + 3, 0]$
2159.  $\text{Int}[(Pq_*)*((d_.) + (e_.)*(x_))^{(m_.)}*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)^m*Pq*(a + b*x + c*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{IGtQ}[p, -2]$
2160.  $\text{Int}[(Pq_*)*((d_) + (e_.)*(x_))^{(m_.)}*((a_) + (b_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)^m*Pq*(a + b*x^2)^p, x], x] /; \text{Fr}$

eeQ[{a, b, d, e, m}, x] && PolyQ[Pq, x] && IGtQ[p, -2]

2161.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[(a + b * x + c * x^2)^{\text{FracPart}[p]} / ((4 * c)^{\text{IntPart}[p]} * (b + 2 * c * x)^{(2 * \text{FracPart}[p]}) \text{Int}[(d + e * x)^m * Pq * (b + 2 * c * x)^{(2 * p)}, x], x] /;$  FreeQ[{a, b, c, d, e, m, p}, x] && PolyQ[Pq, x] && EqQ[b^2 - 4 \* a \* c, 0]
2162.  $\text{Int}[(Pq) * ((e) * (x))^{(m)} * ((b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[e \text{Int}[(e * x)^{(m - 1)} * \text{PolynomialQuotient}[Pq, b + c * x, x] * (b * x + c * x^2)^{(p + 1)}, x], x] /;$  FreeQ[{b, c, e, m, p}, x] && PolyQ[Pq, x] && EqQ[PolynomialRemainder[Pq, b + c \* x, x], 0]
2163.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[d * e \text{Int}[(d + e * x)^{(m - 1)} * \text{PolynomialQuotient}[Pq, a * e + c * d * x, x] * (a + b * x + c * x^2)^{(p + 1)}, x], x] /;$  FreeQ[{a, b, c, d, e, m, p}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4 \* a \* c, 0] && EqQ[c \* d^2 - b \* d \* e + a \* e^2, 0] && EqQ[PolynomialRemainder[Pq, a \* e + c \* d \* x, x], 0]
2164.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[d * e \text{Int}[(d + e * x)^{(m - 1)} * \text{PolynomialQuotient}[Pq, a * e + b * d * x, x] * (a + b * x^2)^{(p + 1)}, x], x] /;$  FreeQ[{a, b, d, e, m, p}, x] && PolyQ[Pq, x] && EqQ[b \* d^2 + a \* e^2, 0] && EqQ[PolynomialRemainder[Pq, a \* e + b \* d \* x, x], 0]
2165.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{With}[\{Qx = \text{PolynomialQuotient}[Pq, a * e + c * d * x, x], R = \text{PolynomialRemainder}[Pq, a * e + c * d * x, x]\}, \text{Simp}[R * (2 * c * d - b * e) * (d + e * x)^m * ((a + b * x + c * x^2)^{(p + 1)} / (e * (p + 1) * (b^2 - 4 * a * c))), x] + \text{Simp}[1 / ((p + 1) * (b^2 - 4 * a * c)) \text{Int}[(d + e * x)^{(m - 1)} * (a + b * x + c * x^2)^{(p + 1)} * \text{ExpandToSum}[d * e * (p + 1) * (b^2 - 4 * a * c) * Qx - R * (2 * c * d - b * e) * (m + 2 * p + 2), x], x], x]] /;$  FreeQ[{a, b, c, d, e}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4 \* a \* c, 0] && EqQ[c \* d^2 - b \* d \* e + a \* e^2, 0] && ILtQ[p + 1/2, 0] && GtQ[m, 0]

2166.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{With}[\{Qx = \text{PolynomialQuotient}[Pq, a * e + b * d * x, x], R = \text{PolynomialRemainder}[Pq, a * e + b * d * x, x]\}, \text{Simp}[(-d) * R * (d + e * x)^m * ((a + b * x^2)^{(p + 1}) / (2 * a * e * (p + 1))), x] + \text{Simp}[d / (2 * a * (p + 1)) \text{Int}[(d + e * x)^{(m - 1)} * (a + b * x^2)^{(p + 1)} * \text{ExpandToSum}[2 * a * e * (p + 1) * Qx + R * (m + 2 * p + 2), x], x], x] /; \text{FreeQ}[\{a, b, d, e\}, x] \&\& \text{PolyQ}[Pq, x] \&\& \text{EqQ}[b * d^2 + a * e^2, 0] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{GtQ}[m, 0]$
2167.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b * x + c * x^2)^p, (d + e * x)^m * Pq, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[Pq, x] \&\& \text{NeQ}[b^2 - 4 * a * c, 0] \&\& \text{EqQ}[c * d^2 - b * d * e + a * e^2, 0] \&\& \text{EqQ}[m + \text{Expon}[Pq, x] + 2 * p + 1, 0] \&\& \text{ILtQ}[m, 0]$
2168.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b * x^2)^p, (d + e * x)^m * Pq, x], x] /; \text{FreeQ}[\{a, b, d, e\}, x] \&\& \text{PolyQ}[Pq, x] \&\& \text{EqQ}[b * d^2 + a * e^2, 0] \&\& \text{EqQ}[m + \text{Expon}[Pq, x] + 2 * p + 1, 0] \&\& \text{ILtQ}[m, 0]$
2169.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Expon}[Pq, x], f = \text{Coeff}[Pq, x, \text{Expon}[Pq, x]]\}, \text{Simp}[f * (d + e * x)^{(m + q - 1)} * ((a + b * x + c * x^2)^{(p + 1}) / (c * e^{(q - 1)} * (m + q + 2 * p + 1))), x] + \text{Simp}[1 / (c * e^q * (m + q + 2 * p + 1)) \text{Int}[(d + e * x)^m * (a + b * x + c * x^2)^p * \text{ExpandToSum}[c * e^q * (m + q + 2 * p + 1) * Pq - c * f * (m + q + 2 * p + 1) * (d + e * x)^q + e * f * (m + p + q) * (d + e * x)^{(q - 2)} * (b * d - 2 * a * e + (2 * c * d - b * e) * x), x], x], x] /; \text{NeQ}[m + q + 2 * p + 1, 0] /; \text{FreeQ}[\{a, b, c, d, e, m, p\}, x] \&\& \text{PolyQ}[Pq, x] \&\& \text{NeQ}[b^2 - 4 * a * c, 0] \&\& \text{EqQ}[c * d^2 - b * d * e + a * e^2, 0]$
2170.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Expon}[Pq, x], f = \text{Coeff}[Pq, x, \text{Expon}[Pq, x]]\}, \text{Simp}[f * (d + e * x)^{(m + q - 1)} * ((a + b * x^2)^{(p + 1}) / (b * e^{(q - 1)} * (m + q + 2 * p + 1))), x] + \text{Simp}[1 / (b * e^q * (m + q + 2 * p + 1)) \text{Int}[(d + e * x)^m * (a + b * x^2)^p * \text{ExpandToSum}[b * e^q * (m + q + 2 * p + 1) * Pq - b * f * (m + q + 2 * p + 1) * (d + e * x)^q - 2 * e * f * (m + p + q) * (d + e * x)^{(q - 2)} * (a * e - b * d * x), x], x], x] /; \text{NeQ}[m + q + 2 * p + 1, 0] /; \text{FreeQ}[\{a, b, d, e, m, p\}, x] \&\& \text{PolyQ}[Pq, x] \&\& \text{EqQ}[b * d^2 + a * e^2, 0] \&\& !\text{IGtQ}[m, 0]$

2171.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Int}[(d + e*x)^{(m+p)} * (a/d + (c/e)*x)^p * Pq, x] /;$  FreeQ[{a, b, c, d, e, m}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4\*a\*c, 0] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && IntegerQ[p]
2172.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Int}[(d + e*x)^{(m+p)} * (a/d + (b/e)*x)^p * Pq, x] /;$  FreeQ[{a, b, d, e, m}, x] && PolyQ[Pq, x] && EqQ[b\*d^2 + a\*e^2, 0] && IntegerQ[p]
2173.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[(a + b*x + c*x^2)^{\text{FracPart}[p]} / ((d + e*x)^{\text{FracPart}[p]} * (a/d + (c*x)/e)^{\text{FracPart}[p]}) \text{Int}[(d + e*x)^{(m+p)} * (a/d + (c/e)*x)^p * Pq, x], x] /;$  FreeQ[{a, b, c, d, e, m, p}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4\*a\*c, 0] && EqQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && !IntegerQ[p] && !IGtQ[m, 0]
2174.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Simp}[(a + b*x^2)^{\text{FracPart}[p]} / ((d + e*x)^{\text{FracPart}[p]} * (a/d + (b*x)/e)^{\text{FracPart}[p]}) \text{Int}[(d + e*x)^{(m+p)} * (a/d + (b/e)*x)^p * Pq, x], x] /;$  FreeQ[{a, b, d, e, m, p}, x] && PolyQ[Pq, x] && EqQ[b\*d^2 + a\*e^2, 0] && !IntegerQ[p] && !IGtQ[m, 0]
2175.  $\text{Int}[(Pq) * ((d) + (e) * (x))^{(m)} * ((a) + (b) * (x) + (c) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{With}[\{Qx = \text{PolynomialQuotient}[Pq, a + b*x + c*x^2, x], R = \text{Coeff}[\text{PolynomialRemainder}[Pq, a + b*x + c*x^2, x], x, 0], S = \text{Coeff}[\text{PolynomialRemainder}[Pq, a + b*x + c*x^2, x], x, 1]\}, \text{Simp}[(d + e*x)^m * (a + b*x + c*x^2)^{(p+1)} * ((R*b - 2*a*S + (2*c*R - b*S)*x) / ((p+1)*(b^2 - 4*a*c))), x] + \text{Simp}[1 / ((p+1)*(b^2 - 4*a*c)) \text{Int}[(d + e*x)^{(m-1)} * (a + b*x + c*x^2)^{(p+1)} * \text{ExpandToSum}[(p+1)*(b^2 - 4*a*c) * (d + e*x)*Qx + S*(2*a*e*m + b*d*(2*p+3)) - R*(b*e*m + 2*c*d*(2*p+3)) - e*(2*c*R - b*S)*(m+2*p+3)*x, x], x]] /;$  FreeQ[{a, b, c, d, e}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4\*a\*c, 0] && NeQ[c\*d^2 - b\*d\*e + a\*e^2, 0] && LtQ[p, -1] && GtQ[m, 0] && (IntegerQ[p] || !IntegerQ[m] || !RationalQ[a, b, c, d, e]) && !(IGtQ[m, 0] && RationalQ[a, b, c, d, e] && (IntegerQ[p] || ILtQ[p + 1/2, 0]))

2176. `Int[(Pq_)*((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :> With[{Qx = PolynomialQuotient[Pq, a + b*x^2, x], R = Coeff[PolynomialRemainder[Pq, a + b*x^2, x], x, 0], S = Coeff[PolynomialRemainder[Pq, a + b*x^2, x], x, 1]}, Simp[(d + e*x)^m*(a + b*x^2)^(p + 1)*((a*S - b*R*x)/(2*a*b*(p + 1))), x] + Simp[1/(2*a*b*(p + 1)) Int[(d + e*x)^(m - 1)*(a + b*x^2)^(p + 1)*ExpandToSum[2*a*b*(p + 1)*(d + e*x)*Qx - a*e*S*m + b*d*R*(2*p + 3) + b*e*R*(m + 2*p + 3)*x, x], x]] /; FreeQ[{a, b, d, e}, x] && PolyQ[Pq, x] && NeQ[b*d^2 + a*e^2, 0] && LtQ[p, -1] && GtQ[m, 0] && !(IGtQ[m, 0] && RationalQ[a, b, d, e] && (IntegerQ[p] || ILtQ[p + 1/2, 0]))`
2177. `Int[(Pq_)*((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] :> With[{Qx = PolynomialQuotient[(d + e*x)^m*Pq, a + b*x + c*x^2, x], R = Coeff[PolynomialRemainder[(d + e*x)^m*Pq, a + b*x + c*x^2, x], x, 0], S = Coeff[PolynomialRemainder[(d + e*x)^m*Pq, a + b*x + c*x^2, x], x, 1]}, Simp[(b*R - 2*a*S + (2*c*R - b*S)*x)*((a + b*x + c*x^2)^(p + 1)/((p + 1)*(b^2 - 4*a*c))), x] + Simp[1/((p + 1)*(b^2 - 4*a*c)) Int[(d + e*x)^m*(a + b*x + c*x^2)^(p + 1)*ExpandToSum[((p + 1)*(b^2 - 4*a*c)*Qx)/(d + e*x)^m - ((2*p + 3)*(2*c*R - b*S))/(d + e*x)^m, x], x], x]] /; FreeQ[{a, b, c, d, e}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && LtQ[p, -1] && ILtQ[m, 0]`
2178. `Int[(Pq_)*((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :> With[{Qx = PolynomialQuotient[(d + e*x)^m*Pq, a + b*x^2, x], R = Coeff[PolynomialRemainder[(d + e*x)^m*Pq, a + b*x^2, x], x, 0], S = Coeff[PolynomialRemainder[(d + e*x)^m*Pq, a + b*x^2, x], x, 1]}, Simp[(a*S - b*R*x)*((a + b*x^2)^(p + 1)/(2*a*b*(p + 1))), x] + Simp[1/(2*a*b*(p + 1)) Int[(d + e*x)^m*(a + b*x^2)^(p + 1)*ExpandToSum[(2*a*b*(p + 1)*Qx)/(d + e*x)^m + (b*R*(2*p + 3))/(d + e*x)^m, x], x], x]] /; FreeQ[{a, b, d, e}, x] && PolyQ[Pq, x] && NeQ[b*d^2 + a*e^2, 0] && LtQ[p, -1] && ILtQ[m, 0]`
2179. `Int[(Pq_)*((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] :> With[{Qx = PolynomialQuotient[Pq, a + b*x + c*x^2, x], R = Coeff[PolynomialRemainder[Pq, a + b*x + c*x^2, x], x, 0], S = Coeff[PolynomialRemainder[Pq, a + b*x + c*x^2, x], x, 1]}, Simp[(d + e*x)^(m + 1)*(a + b*x + c*x^2)^(p + 1)*((R*(b*c*d - b^2*e + 2*a*c*e)`

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- a*S*(2*c*d - b*e) + c*(R*(2*c*d - b*e) - S*(b*d - 2*a*e))*x)/((p +
1)*(b^2 - 4*a*c)*(c*d^2 - b*d*e + a*e^2))), x] + Simp[1/((p + 1)*(b^2
- 4*a*c)*(c*d^2 - b*d*e + a*e^2)) Int[(d + e*x)^m*(a + b*x + c*x^2)^
(p + 1)*ExpandToSum[(p + 1)*(b^2 - 4*a*c)*(c*d^2 - b*d*e + a*e^2)*Qx +
R*(b*c*d*e*(2*p - m + 2) + b^2*e^2*(p + m + 2) - 2*c^2*d^2*(2*p + 3)
- 2*a*c*e^2*(m + 2*p + 3)) - S*(a*e*(b*e - 2*c*d*m + b*e*m) - b*d*(3*c
*d - b*e + 2*c*d*p - b*e*p)) + c*e*(S*(b*d - 2*a*e) - R*(2*c*d - b*e))
*(m + 2*p + 4)*x, x], x], x]] /; FreeQ[{a, b, c, d, e, m}, x] && PolyQ
[Pq, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && LtQ
[p, -1] && !(IGtQ[m, 0] && RationalQ[a, b, c, d, e] && (IntegerQ[p] |
| ILtQ[p + 1/2, 0]))

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2180. `Int[(Pq_)*((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{Qx = PolynomialQuotient[Pq, a + b*x^2, x], R = Coeff[PolynomialRemainder[Pq, a + b*x^2, x], x, 0], S = Coeff[PolynomialRemainder[Pq, a + b*x^2, x], x, 1]}, Simp[(-(d + e*x)^(m + 1))*(a + b*x^2)^(p + 1)*((a*(e*R - d*S) + (b*d*R + a*e*S)*x)/(2*a*(p + 1)*(b*d^2 + a*e^2))], x] + Simp[1/(2*a*(p + 1)*(b*d^2 + a*e^2)) Int[(d + e*x)^m*(a + b*x^2)^(p + 1)*ExpandToSum[2*a*(p + 1)*(b*d^2 + a*e^2)*Qx + b*d^2*R*(2*p + 3) - a*e*(d*S*m - e*R*(m + 2*p + 3)) + e*(b*d*R + a*e*S)*(m + 2*p + 4)*x, x], x], x]] /; FreeQ[{a, b, d, e, m}, x] && PolyQ[Pq, x] && NeQ[b*d^2 + a*e^2, 0] && LtQ[p, -1] && !(IGtQ[m, 0] && RationalQ[a, b, d, e] && (IntegerQ[p] || ILtQ[p + 1/2, 0]))`
2181. `Int[(Pq_)*((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := With[{Qx = PolynomialQuotient[Pq, d + e*x, x], R = PolynomialRemainder[Pq, d + e*x, x]}, Simp[(e*R*(d + e*x)^(m + 1)*(a + b*x + c*x^2)^(p + 1))/((m + 1)*(c*d^2 - b*d*e + a*e^2)), x] + Simp[1/((m + 1)*(c*d^2 - b*d*e + a*e^2)) Int[(d + e*x)^(m + 1)*(a + b*x + c*x^2)^p*ExpandToSum[(m + 1)*(c*d^2 - b*d*e + a*e^2)*Qx + c*d*R*(m + 1) - b*e*R*(m + p + 2) - c*e*R*(m + 2*p + 3)*x, x], x]] /; FreeQ[{a, b, c, d, e, p}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && LtQ[m, -1]`
2182. `Int[(Pq_)*((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{Qx = PolynomialQuotient[Pq, d + e*x, x], R = PolynomialRemainder[Pq, d + e*x, x]}, Simp[e*R*(d + e*x)^(m + 1)*((a + b*x^2)^(p + 1))/((m + 1)*(b*d^2 + a*e^2)), x] + Simp[1/((m + 1)*(b*d^2 + a*e^2))`

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Int[(d + e*x)^(m + 1)*(a + b*x^2)^p*ExpandToSum[(m + 1)*(b*d^2 + a*e^2)*Qx + b*d*R*(m + 1) - b*e*R*(m + 2*p + 3)*x, x], x] /; FreeQ[{a, b, d, e, p}, x] && PolyQ[Pq, x] && NeQ[b*d^2 + a*e^2, 0] && LtQ[m, -1]

2183. Int[(Pq)*(x_)^(m_.)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := Module[{q = Expon[Pq, x], k}, Int[x^m*Sum[Coeff[Pq, x, 2*k]*x^(2*k), {k, 0, q/2}]*(a + b*x^2)^p, x] + Int[x^(m + 1)*Sum[Coeff[Pq, x, 2*k + 1]*x^(2*k), {k, 0, (q - 1)/2}]*(a + b*x^2)^p, x]] /; FreeQ[{a, b, p}, x] && PolyQ[Pq, x] && !PolyQ[Pq, x^2] && IGtQ[m, -2] && !IntegerQ[2*p]

2184. Int[(Pq)*((d_.) + (e_.)*(x_))^(m_.)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_), x_Symbol] := With[{q = Expon[Pq, x], f = Coeff[Pq, x, Expon[Pq, x]]}, Simp[f*(d + e*x)^(m + q - 1)*((a + b*x + c*x^2)^(p + 1)/(c*e^(q - 1)*(m + q + 2*p + 1))), x] + Simp[1/(c*e^q*(m + q + 2*p + 1)) Int[(d + e*x)^m*(a + b*x + c*x^2)^p*ExpandToSum[c*e^q*(m + q + 2*p + 1)*Pq - c*f*(m + q + 2*p + 1)*(d + e*x)^q - f*(d + e*x)^(q - 2)*(b*d*e*(p + 1) + a*e^2*(m + q - 1) - c*d^2*(m + q + 2*p + 1) - e*(2*c*d - b*e)*(m + q + p)*x), x], x], x] /; GtQ[q, 1] && NeQ[m + q + 2*p + 1, 0] /; FreeQ[{a, b, c, d, e, m, p}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && !(IGtQ[m, 0] && RationalQ[a, b, c, d, e] && (IntegerQ[p] || ILtQ[p + 1/2, 0]))

2185. Int[(Pq)*((d_) + (e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2)^(p_), x_Symbol] := With[{q = Expon[Pq, x], f = Coeff[Pq, x, Expon[Pq, x]]}, Simp[f*(d + e*x)^(m + q - 1)*((a + b*x^2)^(p + 1)/(b*e^(q - 1)*(m + q + 2*p + 1))), x] + Simp[1/(b*e^q*(m + q + 2*p + 1)) Int[(d + e*x)^m*(a + b*x^2)^p*ExpandToSum[b*e^q*(m + q + 2*p + 1)*Pq - b*f*(m + q + 2*p + 1)*(d + e*x)^q - f*(d + e*x)^(q - 2)*(a*e^2*(m + q - 1) - b*d^2*(m + q + 2*p + 1) - 2*b*d*e*(m + q + p)*x), x], x], x] /; GtQ[q, 1] && NeQ[m + q + 2*p + 1, 0] /; FreeQ[{a, b, d, e, m, p}, x] && PolyQ[Pq, x] && NeQ[b*d^2 + a*e^2, 0] && !(EqQ[d, 0] && True) && !(IGtQ[m, 0] && RationalQ[a, b, d, e] && (IntegerQ[p] || ILtQ[p + 1/2, 0]))

2186. Int[(Pq)*((d_.) + (e_.)*(x_))^(m_.)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_.), x_Symbol] := With[{q = Expon[Pq, x]}, Simp[Coeff[Pq, x, q]/e^q Int[(d + e*x)^(m + q)*(a + b*x + c*x^2)^p, x], x] + Simp[1/e^q

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Int[(d + e*x)^m*(a + b*x + c*x^2)^p*ExpandToSum[e^q*Pq - Coeff[Pq, x,
q]*(d + e*x)^q, x], x] /; FreeQ[{a, b, c, d, e, m, p}, x] && Poly
Q[Pq, x] && NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && !
(IGtQ[m, 0] && RationalQ[a, b, c, d, e] && (IntegerQ[p] || ILtQ[p + 1/
2, 0]))

```
2187. `Int[(Pq_)*((d_) + (e_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{q = Expon[Pq, x]}, Simp[Coeff[Pq, x, q]/e^q Int[(d + e*x)^(m + q)*(a + b*x^2)^p, x], x] + Simp[1/e^q Int[(d + e*x)^m*(a + b*x^2)^p*ExpandToSum[e^q*Pq - Coeff[Pq, x, q]*(d + e*x)^q, x], x]] /; FreeQ[{a, b, d, e, m, p}, x] && PolyQ[Pq, x] && NeQ[b*d^2 + a*e^2, 0] && !(IGtQ[m, 0] && RationalQ[a, b, d, e] && (IntegerQ[p] || ILtQ[p + 1/2, 0]))`
2188. `Int[(Pq_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Int[ExpandIntegrand[Pq*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b, c}, x] && PolyQ[Pq, x] && IGtQ[p, -2]`
2189. `Int[(Pq_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Int[x*PolynomialQuotient[Pq, x, x]*(a + b*x + c*x^2)^p, x] /; FreeQ[{a, b, c, p}, x] && PolyQ[Pq, x] && EqQ[Coeff[Pq, x, 0], 0] && !MatchQ[Pq, x^(m_)*(u_)] /; IntegerQ[m]`
2190. `Int[(Pq_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Simp[(a + b*x + c*x^2)^FracPart[p]/((4*c)^IntPart[p]*(b + 2*c*x)^(2*FracPart[p])) Int[Pq*(b + 2*c*x)^(2*p), x], x] /; FreeQ[{a, b, c, p}, x] && PolyQ[Pq, x] && EqQ[b^2 - 4*a*c, 0]`
2191. `Int[(Pq_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := With[{Q = PolynomialQuotient[Pq, a + b*x + c*x^2, x], f = Coeff[PolynomialRemainder[Pq, a + b*x + c*x^2, x], x, 0], g = Coeff[PolynomialRemainder[Pq, a + b*x + c*x^2, x], x, 1]}, Simp[(b*f - 2*a*g + (2*c*f - b*g)*x)*((a + b*x + c*x^2)^(p + 1)/((p + 1)*(b^2 - 4*a*c))), x] + Simp[1/((p + 1)*(b^2 - 4*a*c)) Int[(a + b*x + c*x^2)^(p + 1)*ExpandToSum[(p + 1)*(b^2 - 4*a*c)*Q - (2*p + 3)*(2*c*f - b*g), x], x], x]] /; FreeQ[{a, b, c}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1]`

2192. `Int[(Pq_)*((a_.) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_), x_Symbol] := With[
 {q = Expon[Pq, x], e = Coeff[Pq, x, Expon[Pq, x]]}, Simp[e*x^(q - 1)*
 (a + b*x + c*x^2)^(p + 1)/(c*(q + 2*p + 1)), x] + Simp[1/(c*(q + 2*p
 + 1)) Int[(a + b*x + c*x^2)^p*ExpandToSum[c*(q + 2*p + 1)*Pq - a*e*(
 q - 1)*x^(q - 2) - b*e*(q + p)*x^(q - 1) - c*e*(q + 2*p + 1)*x^q, x],
 x], x]] /; FreeQ[{a, b, c, p}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c,
 0] && !LeQ[p, -1]`
2193. `Int[(Pq_)*((d_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_)
 , x_Symbol] := Module[{q = Expon[Pq, x], k}, Int[Sum[Coeff[Pq, x, 2*k]
 *x^(2*k), {k, 0, q/2 + 1}](d*x)^m*(a + b*x^2 + c*x^4)^p, x] + Simp[1/
 d Int[Sum[Coeff[Pq, x, 2*k + 1]*x^(2*k), {k, 0, (q + 1)/2}](d*x)^(m
 + 1)*(a + b*x^2 + c*x^4)^p, x], x]] /; FreeQ[{a, b, c, d, m, p}, x] &&
 & PolyQ[Pq, x] && !PolyQ[Pq, x^2]`
2194. `Int[(Pq_)*(x_)^(m_.)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symb
 ol] := Simp[1/2 Subst[Int[x^((m - 1)/2)*SubstFor[x^2, Pq, x]*(a + b*
 x + c*x^2)^p, x], x, x^2], x] /; FreeQ[{a, b, c, p}, x] && PolyQ[Pq, x
 ^2] && IntegerQ[(m - 1)/2]`
2195. `Int[(Pq_)*((d_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_.
), x_Symbol] := Int[ExpandIntegrand[(d*x)^m*Pq*(a + b*x^2 + c*x^4)^p,
 x], x] /; FreeQ[{a, b, c, d, m}, x] && PolyQ[Pq, x^2] && IGtQ[p, -2]`
2196. `Int[(Pq_)*((d_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_.
), x_Symbol] := With[{e = Coeff[Pq, x, 0], f = Coeff[Pq, x, 2], g = Co
 eff[Pq, x, 4]}, Simp[e*(d*x)^(m + 1)*((a + b*x^2 + c*x^4)^(p + 1)/(a*d
 *(m + 1)), x] /; EqQ[a*f*(m + 1) - b*e*(m + 2*p + 3), 0] && EqQ[a*g*(
 m + 1) - c*e*(m + 4*p + 5), 0] && NeQ[m, -1]] /; FreeQ[{a, b, c, d, m,
 p}, x] && PolyQ[Pq, x^2] && EqQ[Expon[Pq, x], 4]`
2197. `Int[(Pq_)*(x_)^(m_.)*((a_) + (b_.)*(x_)^2 + (c_.)*(x_)^4)^(p_), x_Symbo
 l] := With[{Qx = PolynomialQuotient[x^m*Pq, a + b*x^2 + c*x^4, x], d =
 Coeff[PolynomialRemainder[x^m*Pq, a + b*x^2 + c*x^4, x], x, 0], e = C
 oeff[PolynomialRemainder[x^m*Pq, a + b*x^2 + c*x^4, x], x, 2]}, Simp[x
 *(a + b*x^2 + c*x^4)^(p + 1)*((a*b*e - d*(b^2 - 2*a*c) - c*(b*d - 2*a*
 e)*x^2)/(2*a*(p + 1)*(b^2 - 4*a*c)), x] + Simp[1/(2*a*(p + 1)*(b^2 -`

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4*a*c)) Int[(a + b*x^2 + c*x^4)^(p + 1)*ExpandToSum[2*a*(p + 1)*(b^2
- 4*a*c)*Qx + b^2*d*(2*p + 3) - 2*a*c*d*(4*p + 5) - a*b*e + c*(4*p +
7)*(b*d - 2*a*e)*x^2, x], x] /; FreeQ[{a, b, c}, x] && PolyQ[Pq,
x^2] && GtQ[Expon[Pq, x^2], 1] && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1] &&
IGtQ[m/2, 0]

2198. Int[(Pq_)*(x_)^(m_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_), x_Symbol]
:> With[{Qx = PolynomialQuotient[x^m*Pq, a + b*x^2 + c*x^4, x], d =
Coeff[PolynomialRemainder[x^m*Pq, a + b*x^2 + c*x^4, x], x, 0], e = C
oeff[PolynomialRemainder[x^m*Pq, a + b*x^2 + c*x^4, x], x, 2]}, Simp[x
*(a + b*x^2 + c*x^4)^(p + 1)*((a*b*e - d*(b^2 - 2*a*c) - c*(b*d - 2*a*
e)*x^2)/(2*a*(p + 1)*(b^2 - 4*a*c))), x] + Simp[1/(2*a*(p + 1)*(b^2 -
4*a*c)) Int[x^m*(a + b*x^2 + c*x^4)^(p + 1)*ExpandToSum[(2*a*(p + 1)
*(b^2 - 4*a*c)*Qx)/x^m + (b^2*d*(2*p + 3) - 2*a*c*d*(4*p + 5) - a*b*e)
/x^m + c*(4*p + 7)*(b*d - 2*a*e)*x^(2 - m), x], x] /; FreeQ[{a, b
, c}, x] && PolyQ[Pq, x^2] && GtQ[Expon[Pq, x^2], 1] && NeQ[b^2 - 4*a*
c, 0] && LtQ[p, -1] && ILtQ[m/2, 0]

2199. Int[(Px_)*((d_)*(x_))^(m_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_)
, x_Symbol] :> With[{q = Expon[Px, x^2]}, Simp[Coeff[Px, x^2, q]*(d*x)
^(m + 2*q - 3)*((a + b*x^2 + c*x^4)^(p + 1)/(c*d^(2*q - 3)*(m + 4*p +
2*q + 1))), x] + Int[(d*x)^m*(a + b*x^2 + c*x^4)^p*ExpandToSum[Px - Co
eff[Px, x^2, q]*x^(2*q) - Coeff[Px, x^2, q]*((a*(m + 2*q - 3)*x^(2*(q
- 2)) + b*(m + 2*p + 2*q - 1)*x^(2*(q - 1)))/(c*(m + 4*p + 2*q + 1))),
x], x] /; GtQ[q, 1] && NeQ[m + 4*p + 2*q + 1, 0] /; FreeQ[{a, b, c,
d, m, p}, x] && PolyQ[Px, x^2] && NeQ[b^2 - 4*a*c, 0]

2200. Int[(Px_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_), x_Symbol] :> Int
[ExpandIntegrand[Px*(a + b*x^2 + c*x^4)^p, x], x] /; FreeQ[{a, b, c},
x] && PolyQ[Px, x] && IGtQ[p, 0]

2201. Int[(Px_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_), x_Symbol] :> With
[{m = Expon[Px, x, Min]}, Int[x^m*ExpandToSum[Px/x^m, x]*(a + b*x^2 +
c*x^4)^p, x] /; GtQ[m, 0] && !MatchQ[Px, x^m*(u_.)]] /; FreeQ[{a, b,
c, p}, x] && PolyQ[Px, x]

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2202. `Int[(Pn_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_), x_Symbol] := Module[{n = Expon[Pn, x], k}, Int[Sum[Coeff[Pn, x, 2*k]*x^(2*k), {k, 0, n/2}]* (a + b*x^2 + c*x^4)^p, x] + Int[x*Sum[Coeff[Pn, x, 2*k + 1]*x^(2*k), {k, 0, (n - 1)/2}]* (a + b*x^2 + c*x^4)^p, x]] /; FreeQ[{a, b, c, p}, x] && PolyQ[Pn, x] && !PolyQ[Pn, x^2]`
2203. `Int[(Px_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_), x_Symbol] := With[{d = Coeff[Px, x, 0], e = Coeff[Px, x, 2], f = Coeff[Px, x, 4]}, Simp[d*x*((a + b*x^2 + c*x^4)^(p + 1)/a), x] /; EqQ[a*e - b*d*(2*p + 3), 0] && EqQ[a*f - c*d*(4*p + 5), 0]] /; FreeQ[{a, b, c, p}, x] && PolyQ[Px, x^2] && EqQ[Expon[Px, x], 4]`
2204. `Int[(Px_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_), x_Symbol] := With[{d = Coeff[Px, x, 0], e = Coeff[Px, x, 2], f = Coeff[Px, x, 4], g = Coeff[Px, x, 6]}, Simp[x*(3*a*d + (a*e - b*d*(2*p + 3))*x^2]*((a + b*x^2 + c*x^4)^(p + 1)/(3*a^2)), x] /; EqQ[3*a^2*g - c*(4*p + 7)*(a*e - b*d*(2*p + 3)), 0] && EqQ[3*a^2*f - 3*a*c*d*(4*p + 5) - b*(2*p + 5)*(a*e - b*d*(2*p + 3)), 0]] /; FreeQ[{a, b, c, p}, x] && PolyQ[Px, x^2] && EqQ[Expon[Px, x], 6]`
2205. `Int[(Px_)/((a_) + (b_)*(x_)^2 + (c_)*(x_)^4), x_Symbol] := Int[ExpandIntegrand[Px/(a + b*x^2 + c*x^4), x], x] /; FreeQ[{a, b, c}, x] && PolyQ[Px, x^2] && Expon[Px, x^2] > 1`
2206. `Int[(Px_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_), x_Symbol] := With[{d = Coeff[PolynomialRemainder[Px, a + b*x^2 + c*x^4, x], x, 0], e = Coeff[PolynomialRemainder[Px, a + b*x^2 + c*x^4, x], x, 2]}, Simp[x*(a + b*x^2 + c*x^4)^(p + 1)*((a*b*e - d*(b^2 - 2*a*c) - c*(b*d - 2*a*e))*x^2)/(2*a*(p + 1)*(b^2 - 4*a*c)), x] + Simp[1/(2*a*(p + 1)*(b^2 - 4*a*c)) Int[(a + b*x^2 + c*x^4)^(p + 1)*ExpandToSum[2*a*(p + 1)*(b^2 - 4*a*c)*PolynomialQuotient[Px, a + b*x^2 + c*x^4, x] + b^2*d*(2*p + 3) - 2*a*c*d*(4*p + 5) - a*b*e + c*(4*p + 7)*(b*d - 2*a*e)*x^2, x], x]] /; FreeQ[{a, b, c}, x] && PolyQ[Px, x^2] && Expon[Px, x^2] > 1 && NeQ[b^2 - 4*a*c, 0] && LtQ[p, -1]`
2207. `Int[(Px_)*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^(p_), x_Symbol] := With[{n = Expon[Px, x^2], e = Coeff[Px, x^2, Expon[Px, x^2]]}, Simp[e*x^(2`

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*n - 3)*((a + b*x^2 + c*x^4)^(p + 1)/(c*(2*n + 4*p + 1))), x] + Simp[1
/(c*(2*n + 4*p + 1)) Int[(a + b*x^2 + c*x^4)^p*ExpandToSum[c*(2*n +
4*p + 1)*Px - a*e*(2*n - 3)*x^(2*n - 4) - b*e*(2*n + 2*p - 1)*x^(2*n -
2) - c*e*(2*n + 4*p + 1)*x^(2*n), x], x], x]] /; FreeQ[{a, b, c, p},
x] && PolyQ[Px, x^2] && Expon[Px, x^2] > 1 && NeQ[b^2 - 4*a*c, 0] &&
!LtQ[p, -1]

```
2208. $\text{Int}[\frac{(P4x) \cdot ((d) + (e) \cdot (x)^2)^{(q)}}{\sqrt{(a) + (b) \cdot (x)^2 + (c) \cdot (x)^4}}, x_Symbol] := \text{With}[\{A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[C \cdot x \cdot (d + e \cdot x^2)^q \cdot (\sqrt{a + b \cdot x^2 + c \cdot x^4}) / (c \cdot (2 \cdot q + 3))], x] + \text{Simp}[1 / (c \cdot (2 \cdot q + 3)) \text{Int}[\frac{(d + e \cdot x^2)^{(q-1)}}{\sqrt{a + b \cdot x^2 + c \cdot x^4}}] \cdot \text{Simp}[A \cdot c \cdot d \cdot (2 \cdot q + 3) - a \cdot C \cdot d + (c \cdot (B \cdot d + A \cdot e) \cdot (2 \cdot q + 3) - C \cdot (2 \cdot b \cdot d + a \cdot e + 2 \cdot a \cdot e \cdot q)) \cdot x^2 + (B \cdot c \cdot e \cdot (2 \cdot q + 3) - 2 \cdot C \cdot (b \cdot e - c \cdot d \cdot q + b \cdot e \cdot q)) \cdot x^4, x], x], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2] \&\& \text{EqQ}[\text{Expon}[P4x, x], 4] \&\& \text{IGtQ}[q, 0]$
2209. $\text{Int}[\frac{(P4x) \cdot ((d) + (e) \cdot (x)^2)^{(q)}}{\sqrt{(a) + (c) \cdot (x)^4}}, x_Symbol] := \text{With}[\{A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[C \cdot x \cdot (d + e \cdot x^2)^q \cdot (\sqrt{a + c \cdot x^4}) / (c \cdot (2 \cdot q + 3))], x] + \text{Simp}[1 / (c \cdot (2 \cdot q + 3)) \text{Int}[\frac{(d + e \cdot x^2)^{(q-1)}}{\sqrt{a + c \cdot x^4}}] \cdot \text{Simp}[A \cdot c \cdot d \cdot (2 \cdot q + 3) - a \cdot C \cdot d + (c \cdot (B \cdot d + A \cdot e) \cdot (2 \cdot q + 3) - a \cdot C \cdot e \cdot (2 \cdot q + 1)) \cdot x^2 + (B \cdot c \cdot e \cdot (2 \cdot q + 3) + 2 \cdot c \cdot C \cdot d \cdot q) \cdot x^4, x], x], x]] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2] \&\& \text{EqQ}[\text{Expon}[P4x, x], 4] \&\& \text{IGtQ}[q, 0]$
2210. $\text{Int}[\frac{(P4x) \cdot ((d) + (e) \cdot (x)^2)^{(q)}}{\sqrt{(a) + (b) \cdot (x)^2 + (c) \cdot (x)^4}}, x_Symbol] := \text{With}[\{A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[(-C \cdot d^2 - B \cdot d \cdot e + A \cdot e^2) \cdot x \cdot (d + e \cdot x^2)^{(q+1)} \cdot (\sqrt{a + b \cdot x^2 + c \cdot x^4}) / (2 \cdot d \cdot (q + 1) \cdot (c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2))], x] + \text{Simp}[1 / (2 \cdot d \cdot (q + 1) \cdot (c \cdot d^2 - b \cdot d \cdot e + a \cdot e^2)) \text{Int}[\frac{(d + e \cdot x^2)^{(q+1)}}{\sqrt{a + b \cdot x^2 + c \cdot x^4}}] \cdot \text{Simp}[a \cdot d \cdot (C \cdot d - B \cdot e) + A \cdot (a \cdot e^2 \cdot (2 \cdot q + 3) + 2 \cdot d \cdot (c \cdot d - b \cdot e) \cdot (q + 1)) - 2 \cdot ((B \cdot d - A \cdot e) \cdot (b \cdot e \cdot (q + 2) - c \cdot d \cdot (q + 1)) - C \cdot d \cdot (b \cdot d + a \cdot e \cdot (q + 1))) \cdot x^2 + c \cdot (C \cdot d^2 - B \cdot d \cdot e + A \cdot e^2) \cdot (2 \cdot q + 5) \cdot x^4, x], x], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2] \&\& \text{LeQ}[\text{Expon}[P4x, x], 4] \&\& \text{ILtQ}[q, -1]$
2211. $\text{Int}[\frac{(P4x) \cdot ((d) + (e) \cdot (x)^2)^{(q)}}{\sqrt{(a) + (c) \cdot (x)^4}}, x_Symbol] := \text{With}[\{A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[$

- $$P4x, x, 4\}, \text{Simp}[(-(C*d^2 - B*d*e + A*e^2))*x*(d + e*x^2)^(q + 1)*(Sqrt[a + c*x^4]/(2*d*(q + 1)*(c*d^2 + a*e^2))), x] + \text{Simp}[1/(2*d*(q + 1)*(c*d^2 + a*e^2)) \text{Int}[((d + e*x^2)^(q + 1)/Sqrt[a + c*x^4])*Simp[a*d*(C*d - B*e) + A*(a*e^2*(2*q + 3) + 2*c*d^2*(q + 1)) + 2*d*(B*c*d - A*c*e + a*C*e)*(q + 1)*x^2 + c*(C*d^2 - B*d*e + A*e^2)*(2*q + 5)*x^4, x], x] /; \text{FreeQ}\{a, c, d, e\}, x\} \&\& \text{PolyQ}[P4x, x^2] \&\& \text{LeQ}[\text{Expon}[P4x, x], 4] \&\& \text{ILtQ}[q, -1]$$
2212.
$$\text{Int}[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[A \text{Subst}[\text{Int}[1/(d - (b*d - 2*a*e)*x^2), x], x, x/Sqrt[a + b*x^2 + c*x^4]], x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x\} \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{EqQ}[B*d + A*e, 0]$$
2213.
$$\text{Int}[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[A \text{Subst}[\text{Int}[1/(d + 2*a*e*x^2), x], x, x/Sqrt[a + c*x^4]], x] /; \text{FreeQ}\{a, c, d, e, A, B\}, x\} \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{EqQ}[B*d + A*e, 0]$$
2214.
$$\text{Int}[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[(B*d + A*e)/(2*d*e) \text{Int}[1/Sqrt[a + b*x^2 + c*x^4], x], x] - \text{Simp}[(B*d - A*e)/(2*d*e) \text{Int}[(d - e*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x\} \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{NeQ}[B*d + A*e, 0]$$
2215.
$$\text{Int}[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[(B*d + A*e)/(2*d*e) \text{Int}[1/Sqrt[a + c*x^4], x], x] - \text{Simp}[(B*d - A*e)/(2*d*e) \text{Int}[(d - e*x^2)/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] /; \text{FreeQ}\{a, c, d, e, A, B\}, x\} \&\& \text{EqQ}[c*d^2 - a*e^2, 0] \&\& \text{NeQ}[B*d + A*e, 0]$$
2216.
$$\text{Int}[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] \rightarrow \text{Simp}[Sqrt[A + B*x^2]*(Sqrt[a/A + c*(x^2/B)]/Sqrt[a + b*x^2 + c*x^4]) \text{Int}[Sqrt[A + B*x^2]/((d + e*x^2)*Sqrt[a/A + c*(x^2/B)]), x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x\} \&\& \text{EqQ}[c*A^2 - b*A*B + a*B^2, 0]$$

2217. $\text{Int}[\frac{(A_+ + (B_-)(x_-)^2)}{((d_-) + (e_-)(x_-)^2)\sqrt{(a_-) + (c_-)(x_-)^4}}, x_Symbol] \rightarrow \text{Simp}[\frac{\sqrt{A + Bx^2}(\sqrt{a/A + c(x^2/B)})}{\sqrt{A + cx^4}} \text{Int}[\frac{\sqrt{A + Bx^2}}{(d + ex^2)\sqrt{a/A + c(x^2/B)}}, x], x] /; \text{FreeQ}\{a, c, d, e, A, B\}, x \ \&\& \ \text{EqQ}[cA^2 + aB^2, 0]$
2218. $\text{Int}[\frac{(A_+ + (B_-)(x_-)^2)}{((d_-) + (e_-)(x_-)^2)\sqrt{(a_-) + (b_-)(x_-)^2 + (c_-)(x_-)^4}}, x_Symbol] \rightarrow \text{With}\{q = \sqrt{b^2 - 4ac}\}, \text{Simp}[\frac{(2aB - A(b + q))}{(2ae - d(b + q))} \text{Int}[1/\sqrt{a + bx^2 + cx^4}], x], x] - \text{Simp}[\frac{(Bd - Ae)}{(2ae - d(b + q))} \text{Int}[(2a + (b + q)x^2)/((d + ex^2)\sqrt{a + bx^2 + cx^4})], x], x] /; \text{RationalQ}[q] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x \ \&\& \ \text{GtQ}[b^2 - 4ac, 0] \ \&\& \ \text{NeQ}[cd^2 - bde + ae^2, 0] \ \&\& \ \text{NeQ}[cA^2 - bAB + aB^2, 0]$
2219. $\text{Int}[\frac{(A_+ + (B_-)(x_-)^2)}{((d_-) + (e_-)(x_-)^2)\sqrt{(a_-) + (c_-)(x_-)^4}}, x_Symbol] \rightarrow \text{With}\{q = \sqrt{(-a)c}\}, \text{Simp}[\frac{(aB - Aq)}{(ae - dq)} \text{Int}[1/\sqrt{a + cx^4}], x], x] - \text{Simp}[\frac{(Bd - Ae)}{(ae - dq)} \text{Int}[(a + qx^2)/((d + ex^2)\sqrt{a + cx^4})], x], x] /; \text{RationalQ}[q] /; \text{FreeQ}\{a, c, d, e, A, B\}, x \ \&\& \ \text{GtQ}[(-a)c, 0] \ \&\& \ \text{EqQ}[cd^2 + ae^2, 0] \ \&\& \ \text{NeQ}[cA^2 + aB^2, 0]$
2220. $\text{Int}[\frac{(A_+ + (B_-)(x_-)^2)}{((d_-) + (e_-)(x_-)^2)\sqrt{(a_-) + (b_-)(x_-)^2 + (c_-)(x_-)^4}}, x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[B/A, 2]\}, \text{Simp}[\frac{-(Bd - Ae)(\text{ArcTan}[\text{Rt}[-b + c(d/e) + a(e/d), 2](x/\sqrt{a + bx^2 + cx^4})])}{(2de\text{Rt}[-b + c(d/e) + a(e/d), 2])}], x] + \text{Simp}[\frac{(Bd + Ae)(1 + q^2x^2)(\sqrt{a + bx^2 + cx^4}/(a(1 + q^2x^2)^2))}{(4deq\sqrt{a + bx^2 + cx^4})} \text{EllipticPi}[-(e - dq^2)^2/(4deq^2), 2\text{ArcTan}[qx], 1/2 - b/(4aq^2)], x]] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x \ \&\& \ \text{NeQ}[cd^2 - ae^2, 0] \ \&\& \ \text{PosQ}[c/a] \ \&\& \ \text{EqQ}[cA^2 - aB^2, 0] \ \&\& \ \text{PosQ}[B/A] \ \&\& \ \text{PosQ}[-b + c(d/e) + a(e/d)]$
2221. $\text{Int}[\frac{(A_+ + (B_-)(x_-)^2)}{((d_-) + (e_-)(x_-)^2)\sqrt{(a_-) + (c_-)(x_-)^4}}, x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[B/A, 2]\}, \text{Simp}[\frac{-(Bd - Ae)(\text{ArcTan}[\text{Rt}[c(d/e) + a(e/d), 2](x/\sqrt{a + cx^4})])}{(2de\text{Rt}[c(d/e) + a(e/d), 2])}], x] + \text{Simp}[\frac{(Bd + Ae)(1 + q^2x^2)(\sqrt{a + cx^4}/(a(1 + q^2x^2)^2))}{(4deq\sqrt{a + cx^4})} \text{EllipticPi}[-(e - dq^2)^2/(4deq^2), 2\text{ArcTan}[qx], 1/2], x]] /; \text{FreeQ}\{a, c, d, e, A, B\}, x \ \&\& \ \text{NeQ}[cd^2 - ae^2, 0] \ \&\& \ \text{PosQ}[c/a] \ \&\& \ \text{EqQ}[cA^2 - aB^2, 0] \ \&\& \ \text{PosQ}$

[B/A] && PosQ[c*(d/e) + a*(e/d)]

2222. Int[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] := With[{q = Rt[B/A, 2]}, Simp[(-(B*d - A*e))*(ArcTanh[Rt[b - c*(d/e) - a*(e/d), 2]*(x/Sqrt[a + b*x^2 + c*x^4])]/(2*d*e*Rt[b - c*(d/e) - a*(e/d), 2])), x] + Simp[(B*d + A*e)*(1 + q^2*x^2)*(Sqrt[(a + b*x^2 + c*x^4)/(a*(1 + q^2*x^2)^2)]/(4*d*e*q*Sqrt[a + b*x^2 + c*x^4]))*EllipticPi[-(e - d*q^2)^2/(4*d*e*q^2), 2*ArcTan[q*x], 1/2 - b/(4*a*q^2)], x]] /; FreeQ[{a, b, c, d, e, A, B}, x] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a] && EqQ[c*A^2 - a*B^2, 0] && PosQ[B/A] && NegQ[-b + c*(d/e) + a*(e/d)]

2223. Int[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (c_)*(x_)^4]), x_Symbol] := With[{q = Rt[B/A, 2]}, Simp[(-(B*d - A*e))*(ArcTanh[Rt[(-c)*(d/e) - a*(e/d), 2]*(x/Sqrt[a + c*x^4])]/(2*d*e*Rt[(-c)*(d/e) - a*(e/d), 2])), x] + Simp[(B*d + A*e)*(1 + q^2*x^2)*(Sqrt[(a + c*x^4)/(a*(1 + q^2*x^2)^2)]/(4*d*e*q*Sqrt[a + c*x^4]))*EllipticPi[-(e - d*q^2)^2/(4*d*e*q^2), 2*ArcTan[q*x], 1/2], x]] /; FreeQ[{a, c, d, e, A, B}, x] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a] && EqQ[c*A^2 - a*B^2, 0] && PosQ[B/A] && NegQ[c*(d/e) + a*(e/d)]

2224. Int[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] := Simp[2*A*(B/(B*d + A*e)) Int[1/Sqrt[a + b*x^2 + c*x^4], x], x] - Simp[(B*d - A*e)/(B*d + A*e) Int[(A - B*x^2)/((d + e*x^2)*Sqrt[a + b*x^2 + c*x^4]), x], x] /; FreeQ[{a, b, c, d, e, A, B}, x] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a] && EqQ[c*A^2 - a*B^2, 0] && NegQ[B/A]

2225. Int[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (c_)*(x_)^4]), x_Symbol] := Simp[2*A*(B/(B*d + A*e)) Int[1/Sqrt[a + c*x^4], x], x] - Simp[(B*d - A*e)/(B*d + A*e) Int[(A - B*x^2)/((d + e*x^2)*Sqrt[a + c*x^4]), x], x] /; FreeQ[{a, c, d, e, A, B}, x] && NeQ[c*d^2 - a*e^2, 0] && PosQ[c/a] && EqQ[c*A^2 - a*B^2, 0] && NegQ[B/A]

2226. Int[((A_) + (B_)*(x_)^2)/(((d_) + (e_)*(x_)^2)*Sqrt[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4]), x_Symbol] := With[{q = Rt[c/a, 2]}, Simp[(A*(c*d + a*e*q) - a*B*(e + d*q))/(c*d^2 - a*e^2) Int[1/Sqrt[a + b*x^2 + c

- $x^4], x], x] + \text{Simp}[a*(B*d - A*e)*((e + d*q)/(c*d^2 - a*e^2)) \text{ Int}[(1 + q*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x]] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[c/a] \&\& \text{NeQ}[c*A^2 - a*B^2, 0]$
2227. $\text{Int}[(A + B*(x)^2)/((d + e*(x)^2)*\text{Sqrt}[(a + c*(x)^4])], x_Symbol] := \text{With}\{q = \text{Rt}[c/a, 2]\}, \text{Simp}[(A*(c*d + a*e*q) - a*B*(e + d*q))/(c*d^2 - a*e^2) \text{ Int}[1/\text{Sqrt}[a + c*x^4], x], x] + \text{Simp}[a*(B*d - A*e)*((e + d*q)/(c*d^2 - a*e^2)) \text{ Int}[(1 + q*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x]] /; \text{FreeQ}\{a, c, d, e, A, B\}, x] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[c/a] \&\& \text{NeQ}[c*A^2 - a*B^2, 0]$
2228. $\text{Int}[(A + B*(x)^2)/((d + e*(x)^2)*\text{Sqrt}[(a + (b*(x)^2 + c*(x)^4)]), x_Symbol] := \text{Simp}[B/e \text{ Int}[1/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[(e*A - d*B)/e \text{ Int}[1/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[c/a]$
2229. $\text{Int}[(A + B*(x)^2)/((d + e*(x)^2)*\text{Sqrt}[(a + c*(x)^4])], x_Symbol] := \text{Simp}[B/e \text{ Int}[1/\text{Sqrt}[a + c*x^4], x], x] + \text{Simp}[(e*A - d*B)/e \text{ Int}[1/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] /; \text{FreeQ}\{a, c, d, e, A, B\}, x] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{NegQ}[c/a]$
2230. $\text{Int}[(P4x)/((d + e*(x)^2)*\text{Sqrt}[(a + (b*(x)^2 + c*(x)^4)]), x_Symbol] := \text{With}\{A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[-C/e^2 \text{ Int}[(d - e*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[1/e^2 \text{ Int}[(C*d^2 + A*e^2 + B*e^2*x^2)/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2, 2] \&\& \text{EqQ}[c*d^2 - a*e^2, 0]$
2231. $\text{Int}[(P4x)/((d + e*(x)^2)*\text{Sqrt}[(a + c*(x)^4])], x_Symbol] := \text{With}\{A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[-C/e^2 \text{ Int}[(d - e*x^2)/\text{Sqrt}[a + c*x^4], x], x] + \text{Simp}[1/e^2 \text{ Int}[(C*d^2 + A*e^2 + B*e^2*x^2)/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x]] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2, 2] \&\& \text{EqQ}[c*d^2 - a*e^2, 0]$

2232. $\text{Int}[(P4x_)/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(b_)*(x_)^2+(c_)*(x_)^4]), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2], A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[-C/(e*q) \text{Int}[(1 - q*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[1/(c*e) \text{Int}[(A*c*e + a*C*d*q + (B*c*e - C*(c*d - a*e*q))*x^2]/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2, 2] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[c/a] \&\& !\text{GtQ}[b^2 - 4*a*c, 0]$
2233. $\text{Int}[(P4x_)/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(c_)*(x_)^4]), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[c/a, 2], A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[-C/(e*q) \text{Int}[(1 - q*x^2)/\text{Sqrt}[a + c*x^4], x], x] + \text{Simp}[1/(c*e) \text{Int}[(A*c*e + a*C*d*q + (B*c*e - C*(c*d - a*e*q))*x^2]/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2, 2] \&\& \text{NeQ}[c*d^2 - a*e^2, 0] \&\& \text{PosQ}[c/a]$
2234. $\text{Int}[(P4x_)/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(b_)*(x_)^2+(c_)*(x_)^4]), x_Symbol] \rightarrow \text{With}[\{A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[-(e^2)^{-1} \text{Int}[(C*d - B*e - C*e*x^2)/\text{Sqrt}[a + b*x^2 + c*x^4], x], x] + \text{Simp}[(C*d^2 - B*d*e + A*e^2)/e^2 \text{Int}[1/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2, 2] \&\& \text{NeQ}[c*d^2 - a*e^2, 0]$
2235. $\text{Int}[(P4x_)/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(c_)*(x_)^4]), x_Symbol] \rightarrow \text{With}[\{A = \text{Coeff}[P4x, x, 0], B = \text{Coeff}[P4x, x, 2], C = \text{Coeff}[P4x, x, 4]\}, \text{Simp}[-(e^2)^{-1} \text{Int}[(C*d - B*e - C*e*x^2)/\text{Sqrt}[a + c*x^4], x], x] + \text{Simp}[(C*d^2 - B*d*e + A*e^2)/e^2 \text{Int}[1/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{PolyQ}[P4x, x^2, 2] \&\& \text{NeQ}[c*d^2 - a*e^2, 0]$
2236. $\text{Int}[(Px_)/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(b_)*(x_)^2+(c_)*(x_)^4]), x_Symbol] \rightarrow \text{With}[\{q = \text{Expon}[Px, x]\}, \text{Simp}[\text{Coeff}[Px, x, q]*x^{(q-5)}*(\text{Sqrt}[a + b*x^2 + c*x^4]/(c*e*(q-3))), x] + \text{Simp}[1/(c*e*(q-3)) \text{Int}[(c*e*(q-3)*Px - \text{Coeff}[Px, x, q]*x^{(q-6)}*(d + e*x^2)*(a*(q-5) + b*(q-4)*x^2 + c*(q-3)*x^4))/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x]] /; \text{GtQ}[q, 4]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[Px, x]$

2237. $\text{Int}[(Px_)/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(c_)*(x_)^4]), x_Symbol]$
 $:\> \text{With}\{q = \text{Expon}[Px, x]\}, \text{Simp}[\text{Coeff}[Px, x, q]*x^{(q-5)}*(\text{Sqrt}[a + c*x^4]/(c*e*(q-3))), x] + \text{Simp}[1/(c*e*(q-3)) \text{Int}[(c*e*(q-3)*Px - \text{Coeff}[Px, x, q]*x^{(q-6)}*(d + e*x^2)*(a*(q-5) + c*(q-3)*x^4))/((d + e*x^2)*\text{Sqrt}[a + c*x^4]), x], x] /; \text{GtQ}[q, 4] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{PolyQ}[Px, x]$
2238. $\text{Int}[(Px_)*(x_)*((d_)+(e_)*(x_)^2)^{(q_)}*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)}, x_Symbol]$ $:\> \text{Simp}[1/2 \text{Subst}[\text{Int}[(Px / . x \rightarrow \text{Sqrt}[x])*(d + e*x)^q*(a + b*x + c*x^2)^p, x], x, x^2], x] /; \text{FreeQ}\{a, b, c, d, e, p, q\}, x] \&\& \text{PolyQ}[Px, x^2]$
2239. $\text{Int}[(Px_)*(x_)*((d_)+(e_)*(x_)^2)^{(q_)}*((a_)+(c_)*(x_)^4)^{(p_)}, x_Symbol]$ $:\> \text{Simp}[1/2 \text{Subst}[\text{Int}[(Px / . x \rightarrow \text{Sqrt}[x])*(d + e*x)^q*(a + c*x^2)^p, x], x, x^2], x] /; \text{FreeQ}\{a, c, d, e, p, q\}, x] \&\& \text{PolyQ}[Px, x^2]$
2240. $\text{Int}[(Pr_)*((f_)*(x_))^{(m_)}*((d_)+(e_)*(x_)^2)^{(q_)}*((a_)+(b_)*(x_)^2+(c_)*(x_)^4)^{(p_)}, x_Symbol]$ $:\> \text{Module}\{r = \text{Expon}[Pr, x], k\}, \text{Int}[\text{Sum}[\text{Coeff}[Pr, x, 2*k]*x^{(2*k)}, \{k, 0, r/2 + 1\}*(f*x)^m*(d + e*x^2)^q*(a + b*x^2 + c*x^4)^p, x] + \text{Simp}[1/f \text{Int}[\text{Sum}[\text{Coeff}[Pr, x, 2*k + 1]*x^{(2*k)}, \{k, 0, (r + 1)/2\}*(f*x)^{(m + 1)}*(d + e*x^2)^q*(a + b*x^2 + c*x^4)^p, x], x]] /; \text{FreeQ}\{a, b, c, d, e, f, m, p, q\}, x] \&\& \text{PolyQ}[Pr, x] \&\& !\text{PolyQ}[Pr, x^2]$
2241. $\text{Int}[(Pr_)*((f_)*(x_))^{(m_)}*((d_)+(e_)*(x_)^2)^{(q_)}*((a_)+(c_)*(x_)^4)^{(p_)}, x_Symbol]$ $:\> \text{Module}\{r = \text{Expon}[Pr, x], k\}, \text{Int}[\text{Sum}[\text{Coeff}[Pr, x, 2*k]*x^{(2*k)}, \{k, 0, r/2 + 1\}*(f*x)^m*(d + e*x^2)^q*(a + c*x^4)^p, x] + \text{Simp}[1/f \text{Int}[\text{Sum}[\text{Coeff}[Pr, x, 2*k + 1]*x^{(2*k)}, \{k, 0, (r + 1)/2\}*(f*x)^{(m + 1)}*(d + e*x^2)^q*(a + c*x^4)^p, x], x]] /; \text{FreeQ}\{a, c, d, e, f, m, p, q\}, x] \&\& \text{PolyQ}[Pr, x] \&\& !\text{PolyQ}[Pr, x^2]$
2242. $\text{Int}[(Px_)*(x_)^{(m_)}]/(((d_)+(e_)*(x_)^2)*\text{Sqrt}[(a_)+(b_)*(x_)^2+(c_)*(x_)^4]), x_Symbol]$ $:\> \text{With}\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 2], C = \text{Coeff}[Px, x, 4]\}, \text{Simp}[C*x^{(m-1)}*(\text{Sqrt}[a + b*x^2 + c*x^4]/(c*e*(m+1))), x] - \text{Simp}[1/(c*e*(m+1)) \text{Int}[(x^{(m-2)})/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4])]*\text{Simp}[a*C*d*(m-1) - (A*c*e*(m+1) - C$

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*(a*e*(m - 1) + b*d*m)*x^2 - (B*c*e*(m + 1) - C*(b*e*m + c*d*(m + 1))
)*x^4, x], x], x]] /; FreeQ[{a, b, c, d, e}, x] && PolyQ[Px, x^2, 2] &
& NeQ[b^2 - 4*a*c, 0] && IGtQ[m/2, 0]

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2243.  $\text{Int}[\frac{(Px_*)(x_)^{(m_)}}{((d_) + (e_*)(x_)^2)*\text{Sqrt}[(a_) + (c_*)(x_)^4]}, x\_Symbol] \rightarrow \text{With}[\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 2], C = \text{Coeff}[Px, x, 4]\}, \text{Simp}[C*x^{(m-1)}*(\text{Sqrt}[a + c*x^4]/(c*e*(m+1))), x] - \text{Simp}[1/(c*e*(m+1)) \text{Int}[(x^{(m-2)})/((d + e*x^2)*\text{Sqrt}[a + c*x^4])]* \text{Simp}[a*C*d*(m-1) - (A*c*e*(m+1) - C*a*e*(m-1))*x^2 - (B*c*e*(m+1) - C*c*d*(m+1))*x^4, x], x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{PolyQ}[Px, x^2, 2] \&\& \text{IGtQ}[m/2, 0]$
2244.  $\text{Int}[\frac{(Px_*)(x_)^{(m_)}}{((d_) + (e_*)(x_)^2)*\text{Sqrt}[(a_) + (b_*)(x_)^2 + (c_*)(x_)^4]}, x\_Symbol] \rightarrow \text{With}[\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 2], C = \text{Coeff}[Px, x, 4]\}, \text{Simp}[A*x^{(m+1)}*(\text{Sqrt}[a + b*x^2 + c*x^4]/(a*d*(m+1))), x] + \text{Simp}[1/(a*d*(m+1)) \text{Int}[(x^{(m+2)})/((d + e*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4])]* \text{Simp}[a*B*d*(m+1) - A*(a*e*(m+1) + b*d*(m+2)) + (a*C*d*(m+1) - A*(b*e*(m+2) + c*d*(m+3)))*x^2 - A*c*e*(m+3)*x^4, x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[Px, x^2, 2] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[m/2, 0]$
2245.  $\text{Int}[\frac{(Px_*)(x_)^{(m_)}}{((d_) + (e_*)(x_)^2)*\text{Sqrt}[(a_) + (c_*)(x_)^4]}, x\_Symbol] \rightarrow \text{With}[\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 2], C = \text{Coeff}[Px, x, 4]\}, \text{Simp}[A*x^{(m+1)}*(\text{Sqrt}[a + c*x^4]/(a*d*(m+1))), x] + \text{Simp}[1/(a*d*(m+1)) \text{Int}[(x^{(m+2)})/((d + e*x^2)*\text{Sqrt}[a + c*x^4])]* \text{Simp}[a*B*d*(m+1) - A*a*e*(m+1) + (a*C*d*(m+1) - A*c*d*(m+3))*x^2 - A*c*e*(m+3)*x^4, x], x], x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{PolyQ}[Px, x^2, 2] \&\& \text{ILtQ}[m/2, 0]$
2246.  $\text{Int}[(Px_*)((f_*)(x_))^{(m_)*}((d_) + (e_*)(x_)^2)^{(q_)*}((a_) + (b_*)*(x_)^2 + (c_*)(x_)^4)^{(p_)}], x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Px*(f*x)^m*(d + e*x^2)^q*(a + b*x^2 + c*x^4)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, q\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IntegerQ}[p]$
2247.  $\text{Int}[(Px_*)((f_*)(x_))^{(m_)*}((d_) + (e_*)(x_)^2)^{(q_)*}((a_) + (c_*)*(x_)^4)^{(p_)}], x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Px*(f*x)^m*(d + e*x^2)^q*(a + c*x^4)^p, x], x] /; \text{FreeQ}[\{a, c, d, e, f, m, q\}, x] \&\& \text{PolyQ}[$

Px, x] && IntegerQ[p]

2248. Int[(Px\_)\*((f\_)\*(x\_))^(m\_)\*((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (b\_)\*  
\*(x\_)^2 + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] := Int[ExpandIntegrand[1/Sqrt[  
a + b\*x^2 + c\*x^4], Px\*(f\*x)^m\*(d + e\*x^2)^q\*(a + b\*x^2 + c\*x^4)^(p +  
1/2), x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && PolyQ[Px, x] && Int  
egerQ[p + 1/2] && IntegerQ[q]

2249. Int[(Px\_)\*((f\_)\*(x\_))^(m\_)\*((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (c\_)\*  
\*(x\_)^4)^(p\_), x\_Symbol] := Int[ExpandIntegrand[1/Sqrt[a + c\*x^4], Px\*  
(f\*x)^m\*(d + e\*x^2)^q\*(a + c\*x^4)^(p + 1/2), x], x] /; FreeQ[{a, c, d,  
e, f, m}, x] && PolyQ[Px, x] && IntegerQ[p + 1/2] && IntegerQ[q]

2250. Int[(Px\_)\*((f\_)\*(x\_))^(m\_)\*((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (b\_)\*  
\*(x\_)^2 + (c\_)\*(x\_)^4)^(p\_), x\_Symbol] := Unintegrable[Px\*(f\*x)^m\*(d  
+ e\*x^2)^q\*(a + b\*x^2 + c\*x^4)^p, x] /; FreeQ[{a, b, c, d, e, f, m, p  
, q}, x] && PolyQ[Px, x]

2251. Int[(Px\_)\*((f\_)\*(x\_))^(m\_)\*((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (c\_)\*  
\*(x\_)^4)^(p\_), x\_Symbol] := Unintegrable[Px\*(f\*x)^m\*(d + e\*x^2)^q\*(a  
+ c\*x^4)^p, x] /; FreeQ[{a, c, d, e, f, m, p, q}, x] && PolyQ[Px, x]

2252. Int[(Px\_)\*((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (b\_)\*(x\_)^2 + (c\_)\*(x\_)  
)^4)^(p\_), x\_Symbol] := With[{m = Expon[Px, x, Min]}, Int[x^m\*ExpandTo  
Sum[Px/x^m, x]\*(d + e\*x^2)^q\*(a + b\*x^2 + c\*x^4)^p, x] /; GtQ[m, 0] &&  
!MatchQ[Px, x^m\*(u\_.)]] /; FreeQ[{a, b, c, d, e, p, q}, x] && PolyQ[  
Px, x]

2253. Int[(Px\_)\*((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (c\_)\*(x\_)^4)^(p\_), x\_Sy  
mbol] := With[{m = Expon[Px, x, Min]}, Int[x^m\*ExpandToSum[Px/x^m, x]\*  
(d + e\*x^2)^q\*(a + c\*x^4)^p, x] /; GtQ[m, 0] && !MatchQ[Px, x^m\*(u\_.  
)] /; FreeQ[{a, c, d, e, p, q}, x] && PolyQ[Px, x]

2254. Int[(Pr\_)\*((d\_) + (e\_)\*(x\_)^2)^(q\_)\*((a\_) + (b\_)\*(x\_)^2 + (c\_)\*(x\_)  
)^4)^(p\_), x\_Symbol] := Module[{r = Expon[Pr, x], k}, Int[Sum[Coeff[Pr  
, x, 2\*k]\*x^(2\*k), {k, 0, r/2}]\*(d + e\*x^2)^q\*(a + b\*x^2 + c\*x^4)^p, x

- $$\int x \sum_{k=0}^{(r-1)/2} \text{Coeff}[Pr, x, 2k+1] x^{2k} (d + e x^2)^q (a + b x^2 + c x^4)^p dx / \text{FreeQ}\{a, b, c, d, e, p, q\}, x] \&\& \text{PolyQ}[Pr, x] \&\& !\text{PolyQ}[Pr, x^2]$$
2255.  $\text{Int}[(Pr\_)((d\_)+(e\_)(x\_)^2)^{(q\_)}((a\_)+(c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Module}\{r = \text{Expon}[Pr, x], k\}, \text{Int}[\sum_{k=0}^{r/2} \text{Coeff}[Pr, x, 2k] x^{2k} (d + e x^2)^q (a + c x^4)^p, x] + \text{Int}[x \sum_{k=0}^{(r-1)/2} \text{Coeff}[Pr, x, 2k+1] x^{2k} (d + e x^2)^q (a + c x^4)^p, x] / \text{FreeQ}\{a, c, d, e, p, q\}, x] \&\& \text{PolyQ}[Pr, x] \&\& !\text{PolyQ}[Pr, x^2]$
2256.  $\text{Int}[(Px\_)((d\_)+(e\_)(x\_)^2)^{(q\_)}((a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Px*(d + e x^2)^q (a + b x^2 + c x^4)^p, x], x] / \text{FreeQ}\{a, b, c, d, e, q\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IntegerQ}[p]$
2257.  $\text{Int}[(Px\_)((d\_)+(e\_)(x\_)^2)^{(q\_)}((a\_)+(c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Px*(d + e x^2)^q (a + c x^4)^p, x], x] / \text{FreeQ}\{a, c, d, e, q\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IntegerQ}[p]$
2258.  $\text{Int}[(Px\_)((d\_)+(e\_)(x\_)^2)^{(q\_)}((a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[1/\text{Sqrt}[a + b x^2 + c x^4], Px*(d + e x^2)^q (a + b x^2 + c x^4)^{(p + 1/2)}, x], x] / \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IntegerQ}[p + 1/2] \&\& \text{IntegerQ}[q]$
2259.  $\text{Int}[(Px\_)((d\_)+(e\_)(x\_)^2)^{(q\_)}((a\_)+(c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[1/\text{Sqrt}[a + c x^4], Px*(d + e x^2)^q (a + c x^4)^{(p + 1/2)}, x], x] / \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IntegerQ}[p + 1/2] \&\& \text{IntegerQ}[q]$
2260.  $\text{Int}[(Px\_)((d\_)+(e\_)(x\_)^2)^{(q\_)}((a\_)+(b\_)(x\_)^2+(c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Unintegrable}[Px*(d + e x^2)^q (a + b x^2 + c x^4)^p, x] / \text{FreeQ}\{a, b, c, d, e, p, q\}, x] \&\& \text{PolyQ}[Px, x]$
2261.  $\text{Int}[(Px\_)((d\_)+(e\_)(x\_)^2)^{(q\_)}((a\_)+(c\_)(x\_)^4)^{(p\_)}, x\_Symbol] \rightarrow \text{Unintegrable}[Px*(d + e x^2)^q (a + c x^4)^p, x] / \text{FreeQ}\{a,$

- $c, d, e, p, q\}, x]$  && PolyQ[Px, x]
2262.  $\text{Int}[1/(((d\_)+(e\_)*(x\_))*\text{Sqrt}[(a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4]), x\_Symbol] \rightarrow \text{Simp}[d \text{ Int}[1/((d^2 - e^2*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] - \text{Simp}[e \text{ Int}[x/((d^2 - e^2*x^2)*\text{Sqrt}[a + b*x^2 + c*x^4]), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x]$
2263.  $\text{Int}[1/(((d\_)+(e\_)*(x\_))*\text{Sqrt}[(a\_)+(c\_)*(x\_)^4]), x\_Symbol] \rightarrow \text{Simp}[d \text{ Int}[1/((d^2 - e^2*x^2)*\text{Sqrt}[a + c*x^4]), x], x] - \text{Simp}[e \text{ Int}[x/((d^2 - e^2*x^2)*\text{Sqrt}[a + c*x^4]), x], x] /; \text{FreeQ}\{a, c, d, e\}, x]$
2264.  $\text{Int}[((d\_)+(e\_)*(x\_))^{(q\_)} / \text{Sqrt}[(a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4], x\_Symbol] \rightarrow \text{Simp}[e^3*(d + e*x)^{(q + 1)}*(\text{Sqrt}[a + b*x^2 + c*x^4]/((q + 1)*(c*d^4 + b*d^2*e^2 + a*e^4))), x] + \text{Simp}[1/((q + 1)*(c*d^4 + b*d^2*e^2 + a*e^4)) \text{ Int}[((d + e*x)^{(q + 1)} / \text{Sqrt}[a + b*x^2 + c*x^4])* \text{Simp}[d*(q + 1)*(c*d^2 + b*e^2) - e*(c*d^2*(q + 1) + b*e^2*(q + 2))*x + c*d*e^2*(q + 1)*x^2 - c*e^3*(q + 3)*x^3, x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[c*d^4 + b*d^2*e^2 + a*e^4, 0] \&\& \text{ILtQ}[q, -1]$
2265.  $\text{Int}[((d\_)+(e\_)*(x\_))^{(q\_)} / \text{Sqrt}[(a\_)+(c\_)*(x\_)^4], x\_Symbol] \rightarrow \text{Simp}[e^3*(d + e*x)^{(q + 1)}*(\text{Sqrt}[a + c*x^4]/((q + 1)*(c*d^4 + a*e^4))), x] + \text{Simp}[c/((q + 1)*(c*d^4 + a*e^4)) \text{ Int}[((d + e*x)^{(q + 1)} / \text{Sqrt}[a + c*x^4])* \text{Simp}[d^3*(q + 1) - d^2*e*(q + 1)*x + d*e^2*(q + 1)*x^2 - e^3*(q + 3)*x^3, x], x], x] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{NeQ}[c*d^4 + a*e^4, 0] \&\& \text{ILtQ}[q, -1]$
2266.  $\text{Int}[((a\_)+(b\_)*(x\_)^2+(c\_)*(x\_)^4)^{(p\_)} / ((d\_)+(e\_)*(x\_)), x\_Symbol] \rightarrow \text{Simp}[d \text{ Int}[(a + b*x^2 + c*x^4)^p / (d^2 - e^2*x^2), x], x] - \text{Simp}[e \text{ Int}[x*(a + b*x^2 + c*x^4)^p / (d^2 - e^2*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[p + 1/2]$
2267.  $\text{Int}[((a\_)+(c\_)*(x\_)^4)^{(p\_)} / ((d\_)+(e\_)*(x\_)), x\_Symbol] \rightarrow \text{Simp}[d \text{ Int}[(a + c*x^4)^p / (d^2 - e^2*x^2), x], x] - \text{Simp}[e \text{ Int}[x*(a + c*x^4)^p / (d^2 - e^2*x^2), x], x] /; \text{FreeQ}\{a, c, d, e\}, x] \&\& \text{IntegerQ}[p + 1/2]$

2268.  $\text{Int}[(Px_*)*((d_) + (e_)*(x_))^{(q_)}*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{PolynomialQuotient}[Px, d + e*x, x]*(d + e*x)^{(q + 1)}*(a + b*x^2 + c*x^4)^p, x] /;$   $\text{FreeQ}\{a, b, c, d, e, p, q\}, x]$  &&  $\text{PolyQ}[Px, x]$  &&  $\text{EqQ}[\text{PolynomialRemainder}[Px, d + e*x, x], 0]$
2269.  $\text{Int}[(Px_*)*((d_) + (e_)*(x_))^{(q_)}*((a_) + (c_)*(x_)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{PolynomialQuotient}[Px, d + e*x, x]*(d + e*x)^{(q + 1)}*(a + c*x^4)^p, x] /;$   $\text{FreeQ}\{a, c, d, e, p, q\}, x]$  &&  $\text{PolyQ}[Px, x]$  &&  $\text{EqQ}[\text{PolynomialRemainder}[Px, d + e*x, x], 0]$
2270.  $\text{Int}[(Px_*)*((d_) + (e_)*(x_))^{(q_)}*((a_) + (b_)*(x_)^2 + (c_)*(x_)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{PolynomialQuotient}[Px, a + b*x^2 + c*x^4, x]*(d + e*x)^q*(a + b*x^2 + c*x^4)^{(p + 1)}, x] /;$   $\text{FreeQ}\{a, b, c, d, e, p, q\}, x]$  &&  $\text{PolyQ}[Px, x]$  &&  $\text{EqQ}[\text{PolynomialRemainder}[Px, a + b*x^2 + c*x^4, x], 0]$
2271.  $\text{Int}[(Px_*)*((d_) + (e_)*(x_))^{(q_)}*((a_) + (c_)*(x_)^4)^{(p_)}, x\_Symbol] \rightarrow \text{Int}[\text{PolynomialQuotient}[Px, a + c*x^4, x]*(d + e*x)^q*(a + c*x^4)^{(p + 1)}, x] /;$   $\text{FreeQ}\{a, c, d, e, p, q\}, x]$  &&  $\text{PolyQ}[Px, x]$  &&  $\text{EqQ}[\text{PolynomialRemainder}[Px, a + c*x^4, x], 0]$
2272.  $\text{Int}[((Px_*)*((d_) + (e_)*(x_))^{(q_)})/\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4], x\_Symbol] \rightarrow \text{With}\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1], C = \text{Coeff}[Px, x, 2], D = \text{Coeff}[Px, x, 3]\}, \text{Int}[(d + e*x)^{(q - 1)}*((A*d + (B*d + A*e)*x + (C*d + B*e)*x^2 + C*e*x^3)/\text{Sqrt}[a + b*x^2 + c*x^4]), x] /;$   $\text{FreeQ}\{a, b, c, d, e\}, x]$  &&  $\text{PolyQ}[Px, x]$  &&  $\text{LeQ}[\text{Expon}[Px, x], 2]$  &&  $\text{NeQ}[c*d^4 + b*d^2*e^2 + a*e^4, 0]$  &&  $\text{GtQ}[q, 0]$
2273.  $\text{Int}[((Px_*)*((d_) + (e_)*(x_))^{(q_)})/\text{Sqrt}[(a_) + (c_)*(x_)^4], x\_Symbol] \rightarrow \text{With}\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1], C = \text{Coeff}[Px, x, 2], D = \text{Coeff}[Px, x, 3]\}, \text{Int}[(d + e*x)^{(q - 1)}*((A*d + (B*d + A*e)*x + (C*d + B*e)*x^2 + C*e*x^3)/\text{Sqrt}[a + c*x^4]), x] /;$   $\text{FreeQ}\{a, c, d, e\}, x]$  &&  $\text{PolyQ}[Px, x]$  &&  $\text{LeQ}[\text{Expon}[Px, x], 2]$  &&  $\text{NeQ}[c*d^4 + a*e^4, 0]$  &&  $\text{GtQ}[q, 0]$
2274.  $\text{Int}[((Px_*)*((d_) + (e_)*(x_))^{(q_)})/\text{Sqrt}[(a_) + (b_)*(x_)^2 + (c_)*(x_)^4], x\_Symbol] \rightarrow \text{With}\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1],$

```

C = Coeff[Px, x, 2], D = Coeff[Px, x, 3]}, Simp[D*(d + e*x)^q*(Sqrt[a
+ b*x^2 + c*x^4]/(c*(q + 2))), x] - Simp[1/(c*(q + 2)) Int[((d + e*x
)^q - 1)/Sqrt[a + b*x^2 + c*x^4])*Simp[a*D*e*q - A*c*d*(q + 2) + (b*d
*D - B*c*d*(q + 2) - A*c*e*(q + 2))*x + (b*D*e*(q + 1) - c*(C*d + B*e)
*(q + 2))*x^2 - c*(d*D*q + C*e*(q + 2))*x^3, x], x]] /; FreeQ[{a,
b, c, d, e}, x] && PolyQ[Px, x, 3] && NeQ[c*d^4 + b*d^2*e^2 + a*e^4, 0
] && GtQ[q, 0]

```

```

2275. Int[((Px_)*((d_) + (e_)*(x_))^(q_))/Sqrt[(a_) + (c_)*(x_)^4], x_Symb
ol] :> With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x
, 2], D = Coeff[Px, x, 3]}, Simp[D*(d + e*x)^q*(Sqrt[a + c*x^4]/(c*(q
+ 2))), x] - Simp[1/(c*(q + 2)) Int[((d + e*x)^q - 1)/Sqrt[a + c*x^
4])*Simp[a*D*e*q - A*c*d*(q + 2) - c*(B*d*(q + 2) + A*e*(q + 2))*x - c
*(C*d + B*e)*(q + 2))*x^2 - c*(d*D*q + C*e*(q + 2))*x^3, x], x]] /;
FreeQ[{a, c, d, e}, x] && PolyQ[Px, x, 3] && NeQ[c*d^4 + a*e^4, 0] &&
GtQ[q, 0]

```

```

2276. Int[((Px_)*((d_) + (e_)*(x_))^(q_))/Sqrt[(a_) + (b_)*(x_)^2 + (c_)*
(x_)^4], x_Symbol] :> With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1],
C = Coeff[Px, x, 2], D = Coeff[Px, x, 3]}, Simp[(-(d^3*D - C*d^2*e + B
*d*e^2 - A*e^3))*(d + e*x)^(q + 1)*(Sqrt[a + b*x^2 + c*x^4]/((q + 1)*(
c*d^4 + b*d^2*e^2 + a*e^4))), x] + Simp[1/((q + 1)*(c*d^4 + b*d^2*e^2
+ a*e^4)) Int[((d + e*x)^(q + 1)/Sqrt[a + b*x^2 + c*x^4])*Simp[(q +
1)*(a*e*(d^2*D - C*d*e + B*e^2) + A*d*(c*d^2 + b*e^2)) - (e*(q + 1)*(A
*c*d^2 + a*e*(d*D - C*e)) - B*d*(c*d^2*(q + 1) + b*e^2*(q + 2)) - b*(d
^3*D - C*d^2*e - A*e^3*(q + 2)))*x + (q + 1)*(D*e*(b*d^2 + a*e^2) + c*
d*(C*d^2 - e*(B*d - A*e)))*x^2 + c*(q + 3)*(d^3*D - C*d^2*e + B*d*e^2
- A*e^3)*x^3, x], x]] /; FreeQ[{a, b, c, d, e}, x] && PolyQ[Px, x]
&& LeQ[Expon[Px, x], 3] && NeQ[c*d^4 + b*d^2*e^2 + a*e^4, 0] && LtQ[q
, -1]

```

```

2277. Int[((Px_)*((d_) + (e_)*(x_))^(q_))/Sqrt[(a_) + (c_)*(x_)^4], x_Symb
ol] :> With[{A = Coeff[Px, x, 0], B = Coeff[Px, x, 1], C = Coeff[Px, x
, 2], D = Coeff[Px, x, 3]}, Simp[(-(d^3*D - C*d^2*e + B*d*e^2 - A*e^3)
)*(d + e*x)^(q + 1)*(Sqrt[a + c*x^4]/((q + 1)*(c*d^4 + a*e^4))), x] +
Simp[1/((q + 1)*(c*d^4 + a*e^4)) Int[((d + e*x)^(q + 1)/Sqrt[a + c*x
^4])*Simp[(q + 1)*(a*e*(d^2*D - C*d*e + B*e^2) + A*d*(c*d^2)) - (e*(q
+ 1)*(A*c*d^2 + a*e*(d*D - C*e)) - B*d*(c*d^2*(q + 1)))*x + (q + 1)*(D

```



- ```

*e*(a*e^2) + c*d*(C*d^2 - e*(B*d - A*e))*x^2 + c*(q + 3)*(d^3*D - C*d
^2*e + B*d*e^2 - A*e^3)*x^3, x], x] /; FreeQ[{a, c, d, e}, x] &&
PolyQ[Px, x] && LeQ[Expon[Px, x], 3] && NeQ[c*d^4 + a*e^4, 0] && LtQ[q
, -1]

```
2278. $\text{Int}[\frac{(A_.) + (B_.)(x_.)}{((d_.) + (e_.)(x_.)\sqrt{(a_.) + (b_.)(x_.)^2 + (c_.)(x_.)^4})}, x_Symbol] := \text{Simp}[(-A^2)*(B*d + A*e)/e \text{ Subst}[\text{Int}[1/(6*A^3*B*d + 3*A^4*e - a*e*x^2), x], x, (A + B*x)^2/\sqrt{a + b*x^2 + c*x^4}], x] /; \text{FreeQ}[\{a, b, c, d, e, A, B\}, x] \&\& \text{NeQ}[B*d - A*e, 0] \&\& \text{EqQ}[c^2*d^6 + a*e^4*(13*c*d^2 + b*e^2), 0] \&\& \text{EqQ}[b^2*e^4 - 12*c*d^2*(c*d^2 - b*e^2), 0] \&\& \text{EqQ}[4*A*c*d*e + B*(2*c*d^2 - b*e^2), 0]$
2279. $\text{Int}[(Px_.) / (((d_.) + (e_.)(x_.)\sqrt{(a_.) + (b_.)(x_.)^2 + (c_.)(x_.)^4})], x_Symbol] := \text{With}[\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1], C = \text{Coeff}[Px, x, 2], D = \text{Coeff}[Px, x, 3]\}, \text{Int}[(x*(B*d - A*e + (d*D - C*e)*x^2) / ((d^2 - e^2*x^2)\sqrt{a + b*x^2 + c*x^4}), x] + \text{Int}[(A*d + (C*d - B*e)*x^2 - D*e*x^4) / ((d^2 - e^2*x^2)\sqrt{a + b*x^2 + c*x^4}), x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{LeQ}[\text{Expon}[Px, x], 3] \&\& \text{NeQ}[c*d^4 + b*d^2*e^2 + a*e^4, 0]$
2280. $\text{Int}[(Px_.) / (((d_.) + (e_.)(x_.)\sqrt{(a_.) + (c_.)(x_.)^4})], x_Symbol] : > \text{With}[\{A = \text{Coeff}[Px, x, 0], B = \text{Coeff}[Px, x, 1], C = \text{Coeff}[Px, x, 2], D = \text{Coeff}[Px, x, 3]\}, \text{Int}[(x*(B*d - A*e + (d*D - C*e)*x^2) / ((d^2 - e^2*x^2)\sqrt{a + c*x^4}), x] + \text{Int}[(A*d + (C*d - B*e)*x^2 - D*e*x^4) / ((d^2 - e^2*x^2)\sqrt{a + c*x^4}), x]] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{LeQ}[\text{Expon}[Px, x], 3] \&\& \text{NeQ}[c*d^4 + a*e^4, 0]$
2281. $\text{Int}[(Px_.) * ((a_.) + (b_.)(x_.)^2 + (c_.)(x_.)^4)^{(p_.)} / ((d_.) + (e_.)(x_.)], x_Symbol] := \text{Simp}[d \text{ Int}[Px * ((a + b*x^2 + c*x^4)^p / (d^2 - e^2*x^2)), x], x] - \text{Simp}[e \text{ Int}[x * Px * ((a + b*x^2 + c*x^4)^p / (d^2 - e^2*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IntegerQ}[p + 1/2]$
2282. $\text{Int}[(Px_.) * ((a_.) + (c_.)(x_.)^4)^{(p_.)} / ((d_.) + (e_.)(x_.)], x_Symbol] := \text{Simp}[d \text{ Int}[Px * ((a + c*x^4)^p / (d^2 - e^2*x^2)), x], x] - \text{Simp}[e \text{ Int}[x * Px * ((a + c*x^4)^p / (d^2 - e^2*x^2)), x], x] /; \text{FreeQ}[\{a, c, d, e\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IntegerQ}[p + 1/2]$

2283. $\text{Int}[(Px_)(x_)^{(m_)}((a_)+(c_)(x_)^{(n2_)}+(b_)(x_)^{(n_)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[\text{SubstFor}[x^n, Px, x](a + b*x + c*x^2)^p, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x^n] \&\& \text{EqQ}[\text{Simplify}[m - n + 1], 0]$
2284. $\text{Int}[(Px_)((d_)(x_))^{(m_)}((a_)+(b_)(x_)^{(n_)}+(c_)(x_)^{(n2_)}))^{(p_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d*x)^m Px (a + b*x^n + c*x^{2*n})^p, x], x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x] \&\& \text{IGtQ}[p, 0]$
2285. $\text{Int}[(g_)(x_))^{(m_)}((a_)+(b_)(x_)^{(n_)}+(c_)(x_)^{(n2_}))^{(p_)}((d_)+(e_)(x_)^{(n_)}+(f_)(x_)^{(n2_)}), x_Symbol] \rightarrow \text{Simp}[d*(g*x)^{(m+1)}*((a + b*x^n + c*x^{(2*n)})^{(p+1)} / (a*g*(m+1))), x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[a*e*(m+1) - b*d*(m+n*(p+1)+1), 0] \&\& \text{EqQ}[a*f*(m+1) - c*d*(m+2*n*(p+1)+1), 0] \&\& \text{NeQ}[m, -1]$
2286. $\text{Int}[(g_)(x_))^{(m_)}((a_)+(b_)(x_)^{(n_)}+(c_)(x_)^{(n2_}))^{(p_)}((d_)+(f_)(x_)^{(n2_)}), x_Symbol] \rightarrow \text{Simp}[d*(g*x)^{(m+1)}*((a + b*x^n + c*x^{(2*n)})^{(p+1)} / (a*g*(m+1))), x] /; \text{FreeQ}[\{a, b, c, d, f, g, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[m + n*(p+1) + 1, 0] \&\& \text{EqQ}[c*d + a*f, 0] \&\& \text{NeQ}[m, -1]$
2287. $\text{Int}[(Px_)(x_)^{(m_)}((a_)+(c_)(x_)^{(n2_)}+(b_)(x_)^{(n_)})^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m+1)/n] - 1)*\text{SubstFor}[x^n, Px, x](a + b*x + c*x^2)^p, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x^n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[\text{Simplify}[(m+1)/n]]$
2288. $\text{Int}[(Px_)((d_)(x_))^{(m_)}((a_)+(c_)(x_)^{(n2_)}+(b_)(x_)^{(n_)}))^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(d*x)^m/x^m \text{ Int}[x^m Px (a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x^n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[\text{Simplify}[(m+1)/n]]$

2289. $\text{Int}[\frac{((x_)^{(m_)} * ((e_)) + (f_)*(x_)^{(q_)} + (g_)*(x_)^{(r_)} + (h_)*(x_)^{(s_)}))}{((a_)) + (b_)*(x_)^{(n_)} + (c_)*(x_)^{(n2_)})^{(3/2)}, x_Symbol] :> \text{Simp}[-(2*c*(b*f - 2*a*g) + 2*h*(b^2 - 4*a*c)*x^{(n/2)} + 2*c*(2*c*f - b*g)*x^n)/(c*n*(b^2 - 4*a*c)*\text{Sqrt}[a + b*x^n + c*x^{(2*n)}]), x] /;$
 $\text{FreeQ}[\{a, b, c, e, f, g, h, m, n\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[q, n/2] \ \&\& \ \text{EqQ}[r, 3*(n/2)] \ \&\& \ \text{EqQ}[s, 2*n] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{EqQ}[2*m - n + 2, 0] \ \&\& \ \text{EqQ}[c*e + a*h, 0]$
2290. $\text{Int}[\frac{(((d_)*(x_))^{(m_)} * ((e_)) + (f_)*(x_)^{(q_)} + (g_)*(x_)^{(r_)} + (h_)*(x_)^{(s_)}))}{((a_)) + (b_)*(x_)^{(n_)} + (c_)*(x_)^{(n2_)})^{(3/2)}, x_Symbol] :> \text{Simp}[(d*x)^m/x^m \ \text{Int}[x^m*((e + f*x^{(n/2)} + g*x^{(3*n/2)} + h*x^{(2*n)}))/(a + b*x^n + c*x^{(2*n)})^{(3/2)}], x], x] /;$
 $\text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{EqQ}[q, n/2] \ \&\& \ \text{EqQ}[r, 3*(n/2)] \ \&\& \ \text{EqQ}[s, 2*n] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{EqQ}[2*m - n + 2, 0] \ \&\& \ \text{EqQ}[c*e + a*h, 0]$
2291. $\text{Int}[(Px_)*(x_)^{(m_)} * ((a_)) + (b_)*(x_)^{(n_)} + (c_)*(x_)^{(n2_)})^{(p_)}, x_Symbol] :> \text{Module}[\{q = \text{Expon}[Px, x]\}, \text{Module}[\{Q = \text{PolynomialQuotient}[a*(b*c)^{(\text{Floor}[(q - 1)/n] + 1)*x^m*Px, a + b*x^n + c*x^{(2*n)}, x], R = \text{PolynomialRemainder}[a*(b*c)^{(\text{Floor}[(q - 1)/n] + 1)*x^m*Px, a + b*x^n + c*x^{(2*n)}, x], i\}, \text{Simp}[1/(a*n*(p + 1)*(b^2 - 4*a*c)*(b*c)^{(\text{Floor}[(q - 1)/n] + 1)} \ \text{Int}[x^m*(a + b*x^n + c*x^{(2*n)})^{(p + 1)}*\text{ExpandToSum}[(n*(p + 1)*(b^2 - 4*a*c)*Q)/x^m + \text{Sum}[(b^2*((n*(p + 1) + i + 1)/a) - 2*c*(2*n*(p + 1) + i + 1))*\text{Coeff}[R, x, i] - b*(i + 1)*\text{Coeff}[R, x, n + i]]*x^{(i - m)} + c*(n*(2*p + 3) + i + 1)*((b/a)*\text{Coeff}[R, x, i] - 2*\text{Coeff}[R, x, n + i])*x^{(n + i - m)}, \{i, 0, n - 1\}], x], x] + \text{Simp}[(-x)*(a + b*x^n + c*x^{(2*n)})^{(p + 1)}/(a^2*n*(p + 1)*(b^2 - 4*a*c)*(b*c)^{(\text{Floor}[(q - 1)/n] + 1)})*\text{Sum}[(b^2 - 2*a*c)*\text{Coeff}[R, x, i] - a*b*\text{Coeff}[R, x, n + i])*x^i + c*(b*\text{Coeff}[R, x, i] - 2*a*\text{Coeff}[R, x, n + i])*x^{(n + i)}, \{i, 0, n - 1\}], x]] /;$
 $\text{GeQ}[q, 2*n] /;$
 $\text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{PolyQ}[Px, x] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{ILtQ}[m, 0]$
2292. $\text{Int}[(Px_)*(x_)^{(m_)} * ((a_)) + (b_)*(x_)^{(n_)} + (c_)*(x_)^{(n2_)})^{(p_)}, x_Symbol] :> \text{With}[\{g = \text{GCD}[m + 1, n]\}, \text{Simp}[1/g \ \text{Subst}[\text{Int}[x^{((m + 1)/g - 1)}*(Px /. x -> x^{(1/g)})*(a + b*x^{(n/g)} + c*x^{(2*(n/g))})^p, x], x, x^g], x] /;$
 $\text{NeQ}[g, 1] /;$
 $\text{FreeQ}[\{a, b, c, p\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{PolyQ}[Px, x^n] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[m]$

2293. `Int[(Px_)*((d_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := With[{q = Expon[Px, x^n]}, Simp[Coeff[Px, x^n, q]*(d*x)^(m + n*q - 2*n + 1)*((a + b*x^n + c*x^(2*n))^(p + 1)/(c*d^(n*q - 2*n + 1)*(m + n*(2*p + q) + 1))), x] + Int[(d*x)^m*(a + b*x^n + c*x^(2*n))^p*ExpandToSum[Px - Coeff[Px, x^n, q]*x^(n*q) - Coeff[Px, x^n, q]*((a*(m + n*q - 2*n + 1)*x^(n*(q - 2)) + b*(m + n*(p + q - 1) + 1)*x^(n*(q - 1)))/(c*(m + n*(2*p + q) + 1))), x], x] /; GtQ[q, 1] && NeQ[m + n*(2*p + q) + 1, 0] && (IntegerQ[2*p] || (EqQ[n, 1] && IntegerQ[4*p]) || IntegerQ[p + (n*q + 1)/(2*n)]) /; FreeQ[{a, b, c, d, m, p}, x] && EqQ[n2, 2*n] && PolyQ[Px, x^n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0]`
2294. `Int[(Px_)*((d_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Module[{q = Expon[Px, x], j, k}, Int[Sum[(1/d^j)*(d*x)^(m + j)*Sum[Coeff[Px, x, j + k*n]*x^(k*n), {k, 0, (q - j)/n + 1}]*((a + b*x^n + c*x^(2*n))^p, {j, 0, n - 1}), x]] /; FreeQ[{a, b, c, d, m, p}, x] && EqQ[n2, 2*n] && PolyQ[Px, x] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && !PolyQ[Px, x^n]`
2295. `Int[((Px_)*((d_)*(x_))^(m_))/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x_Symbol] := Int[RationalFunctionExpand[(d*x)^m*(Px/(a + b*x^n + c*x^(2*n))), x], x] /; FreeQ[{a, b, c, d, m}, x] && EqQ[n2, 2*n] && PolyQ[Px, x] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0]`
2296. `Int[(Px_)*(x_)^(m_)*((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := With[{q = Expon[Px, x]}, -Subst[Int[ExpandToSum[x^q*(Px /. x -> x^(-1)), x]*((a + b/x^n + c/x^(2*n))^p/x^(m + q + 2)), x], x, 1/x]] /; FreeQ[{a, b, c, p}, x] && EqQ[n2, 2*n] && PolyQ[Px, x] && NeQ[b^2 - 4*a*c, 0] && ILtQ[n, 0] && IntegerQ[m]`
2297. `Int[(Px_)*((d_)*(x_))^(m_)*((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := With[{g = Denominator[m], q = Expon[Px, x]}, Simp[-g/d Subst[Int[ExpandToSum[x^(g*q)*(Px /. x -> 1/(d*x^g)), x]*((a + b/(d^n*x^(g*n)) + c/(d^(2*n)*x^(2*g*n)))^p/x^(g*(m + q + 1) + 1)), x], x, 1/(d*x)^(1/g)], x]] /; FreeQ[{a, b, c, d, p}, x] && EqQ[n2, 2*n] && PolyQ[Px, x] && NeQ[b^2 - 4*a*c, 0] && ILtQ[n, 0] && FractionQ[m]`

2298. $\text{Int}[(Px_*)*((d_*)(x_*)^{(m_*)}*((a_*) + (c_*)(x_*)^{(n2_*)} + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{With}[\{q = \text{Expon}[Px, x]\}, \text{Simp}[(-(d*x)^m)*(x^{-1})^m \text{ Subst}[\text{Int}[\text{ExpandToSum}[x^q*(Px /. x \rightarrow x^{-1})], x]*((a + b/x^n + c/x^{(2*n)})^p/x^{(m + q + 2)}), x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, m, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{!RationalQ}[m]$
2299. $\text{Int}[(Px_*)(x_*)^{(m_*)}*((a_*) + (c_*)(x_*)^{(n2_*)} + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{With}[\{g = \text{Denominator}[n]\}, \text{Simp}[g \text{ Subst}[\text{Int}[x^{(g*(m + 1) - 1)}*(Px /. x \rightarrow x^g)*(a + b*x^{(g*n)} + c*x^{(2*g*n)})^p, x], x, x^{(1/g)}], x] /; \text{FreeQ}[\{a, b, c, m, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{FractionQ}[n]$
2300. $\text{Int}[(Px_*)(d_*)(x_*)^{(m_*)}*((a_*) + (c_*)(x_*)^{(n2_*)} + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[d^{(m - 1/2)}*(\text{Sqrt}[d*x]/\text{Sqrt}[x]) \text{ Int}[x^m*Px*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{FractionQ}[n] \&\& \text{IGtQ}[m + 1/2, 0]$
2301. $\text{Int}[(Px_*)(d_*)(x_*)^{(m_*)}*((a_*) + (c_*)(x_*)^{(n2_*)} + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[d^{(m + 1/2)}*(\text{Sqrt}[x]/\text{Sqrt}[d*x]) \text{ Int}[x^m*Px*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{FractionQ}[n] \&\& \text{ILtQ}[m - 1/2, 0]$
2302. $\text{Int}[(Px_*)(d_*)(x_*)^{(m_*)}*((a_*) + (c_*)(x_*)^{(n2_*)} + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[(d*x)^m/x^m \text{ Int}[x^m*Px*(a + b*x^n + c*x^{(2*n)})^p, x], x] /; \text{FreeQ}[\{a, b, c, d, m, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{FractionQ}[n]$
2303. $\text{Int}[(Px_*)(x_*)^{(m_*)}*((a_*) + (c_*)(x_*)^{(n2_*)} + (b_*)(x_*)^{(n_*)})^{(p_*)}, x_Symbol] \rightarrow \text{Simp}[1/(m + 1) \text{ Subst}[\text{Int}[(\text{SubstFor}[x^n, Px, x] /. x \rightarrow x^{\text{Simplify}[n/(m + 1)]})*(a + b*x^{\text{Simplify}[n/(m + 1)]} + c*x^{\text{Simplify}[2*(n/(m + 1))])^p, x], x, x^{(m + 1)}], x] /; \text{FreeQ}[\{a, b, c, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x^n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}$

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[Simplify[n/(m + 1)]] && !IntegerQ[n]
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2304.  $\text{Int}[(Px_*)((d_*)(x_))^{(m_*)}((a_*) + (c_*)(x_)^{(n2_*)} + (b_*)(x_)^{(n_*)})^{(p_*)}, x\_Symbol] \rightarrow \text{Simp}[(d*x)^m/x^m \text{ Int}[x^m Px*(a + b*x^n + c*x^{(2*n)})^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, m, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x^n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[\text{Simplify}[n/(m + 1)]] \&\& !\text{IntegerQ}[n]$
2305.  $\text{Int}[(Px_*)((d_*)(x_))^{(m_*)}/((a_*) + (b_*)(x_)^{(n_*)} + (c_*)(x_)^{(n2_*)}), x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*(c/q) \text{ Int}[(d*x)^m*(Px/(b - q + 2*c*x^n)), x], x] - \text{Simp}[2*(c/q) \text{ Int}[(d*x)^m*(Px/(b + q + 2*c*x^n)), x], x] /;$   $\text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
2306.  $\text{Int}[(Px_*)((d_*)(x_))^{(m_*)}((a_*) + (b_*)(x_)^{(n_*)} + (c_*)(x_)^{(n2_*)})^{(p_*)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d*x)^m Px*(a + b*x^n + c*x^{(2*n)})^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Px, x]$
2307.  $\text{Int}[(Px_*)(u_*)^{(m_*)}((a_*) + (c_*)(v_)^{(n2_*)} + (b_*)(v_)^{(n_*)})^{(p_*)}, x\_Symbol] \rightarrow \text{Simp}[u^m/(\text{Coefficient}[v, x, 1]*v^m) \text{ Subst}[\text{Int}[x^m \text{SubstFor}[v, Px, x]*(a + b*x^n + c*x^{(2*n)})^p, x], x, v], x] /;$   $\text{FreeQ}\{a, b, c, m, n, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{LinearPairQ}[u, v, x] \&\& \text{PolyQ}[Px, v^n]$
2308.  $\text{Int}[(Pq_*)((a_*) + (b_*)(x_)^{(n_*)} + (c_*)(x_)^{(n2_*)})^{(p_*)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Pq*(a + b*x^n + c*x^{(2*n)})^p, x], x] /;$   $\text{FreeQ}\{a, b, c, n\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{PolyQ}[Pq, x] \&\& \text{IGtQ}[p, 0]$
2309.  $\text{Int}[(a_*) + (b_*)(x_)^{(n_*)} + (c_*)(x_)^{(n2_*)})^{(p_*)}((d_*) + (e_*)(x_)^{(n_*)} + (f_*)(x_)^{(n2_*)}), x\_Symbol] \rightarrow \text{Simp}[d*x*((a + b*x^n + c*x^{(2*n)})^{(p + 1)}/a), x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, n, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[a*e - b*d*(n*(p + 1) + 1), 0] \&\& \text{EqQ}[a*f - c*d*(2*n*(p + 1) + 1), 0]$

2310.  $\text{Int}[(a_.) + (b_.)x^{(n_.)} + (c_.)x^{(n2_.)}]^{(p_.)}((d_.) + (f_.)x^{(n2_.)}), x\_Symbol] \rightarrow \text{Simp}[d*x*((a + b*x^n + c*x^{(2*n)})^{(p + 1)}/(x)^{n2}), x] /;$  FreeQ[{a, b, c, d, f, n, p}, x] && EqQ[n2, 2\*n] && EqQ[n\*(p + 1) + 1, 0] && EqQ[c\*d + a\*f, 0]
2311.  $\text{Int}[(Pq_.)*((a_.) + (b_.)x^{(n_.)} + (c_.)x^{(n2_.)})^{(p_.)}], x\_Symbol] \rightarrow \text{Int}[x*\text{PolynomialQuotient}[Pq, x, x]*(a + b*x^n + c*x^{(2*n)})^p, x] /;$  FreeQ[{a, b, c, n, p}, x] && EqQ[n2, 2\*n] && PolyQ[Pq, x] && EqQ[Coeff[Pq, x, 0], 0] && !MatchQ[Pq, x^{(m\_.)}\*(u\_.) /; IntegerQ[m]]
2312.  $\text{Int}[(a_.) + (c_.)x^{(n2_.)} + (b_.)x^{(n_.)}]^{(p_.)}((d_.) + (f_.)x^{(n2_.)} + (g_.)x^{(n3_.)} + (e_.)x^{(n_.)}), x\_Symbol] \rightarrow \text{Simp}[x*(a*d*(n + 1) + (a*e - b*d*(n*(p + 1) + 1))*x^n*((a + b*x^n + c*x^{(2*n)})^{(p + 1)}/(a^{2*(n + 1)})), x] /;$  FreeQ[{a, b, c, d, e, f, g, n, p}, x] && EqQ[n2, 2\*n] && EqQ[n3, 3\*n] && NeQ[b^2 - 4\*a\*c, 0] && EqQ[a^2\*g\*(n + 1) - c\*(n\*(2\*p + 3) + 1)\*(a\*e - b\*d\*(n\*(p + 1) + 1)), 0] && EqQ[a^2\*f\*(n + 1) - a\*c\*d\*(n + 1)\*(2\*n\*(p + 1) + 1) - b\*(n\*(p + 2) + 1)\*(a\*e - b\*d\*(n\*(p + 1) + 1)), 0]
2313.  $\text{Int}[(d_.) + (f_.)x^{(n2_.)} + (g_.)x^{(n3_.)}]^{(p_.)}((a_.) + (c_.)x^{(n2_.)} + (b_.)x^{(n_.)}), x\_Symbol] \rightarrow \text{Simp}[d*x*(a*(n + 1) - b*(n*(p + 1) + 1)*x^n*((a + b*x^n + c*x^{(2*n)})^{(p + 1)}/(a^{2*(n + 1)})), x] /;$  FreeQ[{a, b, c, d, f, g, n, p}, x] && EqQ[n2, 2\*n] && EqQ[n3, 3\*n] && NeQ[b^2 - 4\*a\*c, 0] && EqQ[a^2\*g\*(n + 1) + c\*b\*d\*(n\*(2\*p + 3) + 1)\*(n\*(p + 1) + 1), 0] && EqQ[a^2\*f\*(n + 1) - a\*c\*d\*(n + 1)\*(2\*n\*(p + 1) + 1) + b^2\*d\*(n\*(p + 2) + 1)\*(n\*(p + 1) + 1), 0]
2314.  $\text{Int}[(a_.) + (c_.)x^{(n2_.)} + (b_.)x^{(n_.)}]^{(p_.)}((d_.) + (g_.)x^{(n3_.)} + (e_.)x^{(n_.)}), x\_Symbol] \rightarrow \text{Simp}[x*(a*d*(n + 1) + (a*e - b*d*(n*(p + 1) + 1))*x^n*((a + b*x^n + c*x^{(2*n)})^{(p + 1)}/(a^{2*(n + 1)})), x] /;$  FreeQ[{a, b, c, d, e, g, n, p}, x] && EqQ[n2, 2\*n] && EqQ[n3, 3\*n] && NeQ[b^2 - 4\*a\*c, 0] && EqQ[a^2\*g\*(n + 1) - c\*(n\*(2\*p + 3) + 1)\*(a\*e - b\*d\*(n\*(p + 1) + 1)), 0] && EqQ[a\*c\*d\*(n + 1)\*(2\*n\*(p + 1) + 1) + b\*(n\*(p + 2) + 1)\*(a\*e - b\*d\*(n\*(p + 1) + 1)), 0]
2315.  $\text{Int}[(d_.) + (g_.)x^{(n3_.)}]^{(p_.)}((a_.) + (c_.)x^{(n2_.)} + (b_.)x^{(n_.)}), x\_Symbol] \rightarrow \text{Simp}[d*x*(a*(n + 1) - b*(n*(p + 1) + 1)*x^n)$

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*((a + b*x^n + c*x^(2*n))^(p + 1)/(a^2*(n + 1))), x] /; FreeQ[{a, b, c
, d, g, n, p}, x] && EqQ[n2, 2*n] && EqQ[n3, 3*n] && NeQ[b^2 - 4*a*c,
0] && EqQ[a^2*g*(n + 1) + c*b*d*(n*(2*p + 3) + 1)*(n*(p + 1) + 1), 0]
&& EqQ[a*c*d*(n + 1)*(2*n*(p + 1) + 1) - b^2*d*(n*(p + 2) + 1)*(n*(p +
1) + 1), 0]

2316. Int[(Pq_)*((a_) + (b_.)*(x_)^(n_) + (c_.)*(x_)^(n2_))^(p_), x_Symbol]
:> Module[{q = Expon[Pq, x], i}, Simp[(-x)*((a + b*x^n + c*x^(2*n))^(p
+ 1)/(a*n*(p + 1)*(b^2 - 4*a*c)))*Sum[((b^2 - 2*a*c)*Coeff[Pq, x, i]
- a*b*Coeff[Pq, x, n + i])*x^i + c*(b*Coeff[Pq, x, i] - 2*a*Coeff[Pq,
x, n + i])*x^(n + i), {i, 0, n - 1}], x] + Simp[1/(a*n*(p + 1)*(b^2 -
4*a*c)) Int[(a + b*x^n + c*x^(2*n))^(p + 1)*Sum[((b^2*(n*(p + 1) + i
+ 1) - 2*a*c*(2*n*(p + 1) + i + 1))*Coeff[Pq, x, i] - a*b*(i + 1)*Coe
ff[Pq, x, n + i])*x^i + c*(n*(2*p + 3) + i + 1)*(b*Coeff[Pq, x, i] - 2
*a*Coeff[Pq, x, n + i])*x^(n + i), {i, 0, n - 1}], x], x] /; LtQ[q, 2*
n]] /; FreeQ[{a, b, c}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2
- 4*a*c, 0] && IGtQ[n, 0] && LtQ[p, -1]

2317. Int[(Pq_)*((a_) + (b_.)*(x_)^(n_) + (c_.)*(x_)^(n2_))^(p_), x_Symbol]
:> With[{q = Expon[Pq, x]}, Module[{Q = PolynomialQuotient[(b*c)^(Floo
r[(q - 1)/n] + 1)*Pq, a + b*x^n + c*x^(2*n), x], R = PolynomialRemaind
er[(b*c)^(Floor[(q - 1)/n] + 1)*Pq, a + b*x^n + c*x^(2*n), x], i}, Sim
p[1/(a*n*(p + 1)*(b^2 - 4*a*c)*(b*c)^(Floor[(q - 1)/n] + 1)) Int[(a
+ b*x^n + c*x^(2*n))^(p + 1)*ExpandToSum[a*n*(p + 1)*(b^2 - 4*a*c)*Q +
Sum[((b^2*(n*(p + 1) + i + 1) - 2*a*c*(2*n*(p + 1) + i + 1))*Coeff[R,
x, i] - a*b*(i + 1)*Coeff[R, x, n + i])*x^i + c*(n*(2*p + 3) + i + 1)
*(b*Coeff[R, x, i] - 2*a*Coeff[R, x, n + i])*x^(n + i), {i, 0, n - 1}
], x], x] + Simp[(-x)*((a + b*x^n + c*x^(2*n))^(p + 1)/(a*n*(p + 1)
*(b^2 - 4*a*c)*(b*c)^(Floor[(q - 1)/n] + 1)))*Sum[((b^2 - 2*a*c)*Coeff
[R, x, i] - a*b*Coeff[R, x, n + i])*x^i + c*(b*Coeff[R, x, i] - 2*a*Co
eff[R, x, n + i])*x^(n + i), {i, 0, n - 1}], x]] /; GeQ[q, 2*n]] /; Fr
eeQ[{a, b, c}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c,
0] && IGtQ[n, 0] && LtQ[p, -1]

2318. Int[(Pq_)*((a_) + (b_.)*(x_) + (c_.)*(x_)^2)^(p_), x_Symbol] :> With[{
q = Expon[Pq, x]}, With[{Pqq = Coeff[Pq, x, q]}, Simp[c^p*Pqq*(Log[a +
b*x + c*x^2]/2), x] + Simp[1/2 Int[ExpandToSum[2*Pq - c^p*Pqq*((b +
2*c*x)/(a + b*x + c*x^2))^(p + 1)), x]*(a + b*x + c*x^2)^p, x], x]] /;

```



```
EqQ[q + 2*p + 1, 0]] /; FreeQ[{a, b, c}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p, 0]
```

2319. `Int[(Pq_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := With[{q = Expon[Pq, x]}, With[{Pqq = Coeff[Pq, x, q]}, Int[ExpandToSum[Pq - c^(p + 1/2)*(Pqq/(a + b*x + c*x^2)^(p + 1/2)), x]*(a + b*x + c*x^2)^p, x] + Simp[c^p*Pqq*ArcTanh[(b + 2*c*x)/(2*Rt[c, 2]*Sqrt[a + b*x + c*x^2])], x]] /; EqQ[q + 2*p + 1, 0]] /; FreeQ[{a, b, c}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p + 1/2, 0] && PosQ[c]`
2320. `Int[(Pq_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := With[{q = Expon[Pq, x]}, With[{Pqq = Coeff[Pq, x, q]}, Int[ExpandToSum[Pq - (-c)^(p + 1/2)*(Pqq/(a + b*x + c*x^2)^(p + 1/2)), x]*(a + b*x + c*x^2)^p, x] + Simp[(-(-c)^p)*Pqq*ArcTan[(b + 2*c*x)/(2*Rt[-c, 2]*Sqrt[a + b*x + c*x^2])], x]] /; EqQ[q + 2*p + 1, 0]] /; FreeQ[{a, b, c}, x] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p + 1/2, 0] && NegQ[c]`
2321. `Int[(Pq_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := With[{q = Expon[Pq, x]}, With[{Pqq = Coeff[Pq, x, q]}, Int[ExpandToSum[Pq - Pqq*x^q - Pqq*((a*(q - 2*n + 1)*x^(q - 2*n) + b*(q + n*(p - 1) + 1)*x^(q - n))/(c*(q + 2*n*p + 1))), x]*(a + b*x^n + c*x^(2*n))^p, x] + Simp[Pqq*x^(q - 2*n + 1)*((a + b*x^n + c*x^(2*n))^(p + 1))/(c*(q + 2*n*p + 1))], x]] /; GeQ[q, 2*n] && NeQ[q + 2*n*p + 1, 0] && (IntegerQ[2*p] || (EqQ[n, 1] && IntegerQ[4*p]) || IntegerQ[p + (q + 1)/(2*n)]) /; FreeQ[{a, b, c, p}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x^n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0]`
2322. `Int[(Pq_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Module[{q = Expon[Pq, x], j, k}, Int[Sum[x^j*Sum[Coeff[Pq, x, j + k*n]*x^(k*n), {k, 0, (q - j)/n + 1}]*(a + b*x^n + c*x^(2*n))^p, {j, 0, n - 1}], x]] /; FreeQ[{a, b, c, p}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0] && !PolyQ[Pq, x^n]`
2323. `Int[(Pq_)/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x_Symbol] := Int[RationalFunctionExpand[Pq/(a + b*x^n + c*x^(2*n)), x], x] /; FreeQ[{a, b, c}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0]`

2324. `Int[(Pq_)*((a_) + (c_)*(x_)^(n2_)) + (b_)*(x_)^(n_)^(p_), x_Symbol]
 :> With[{g = Denominator[n]}, Simp[g Subst[Int[x^(g - 1)*(Pq /. x -
 > x^g)*(a + b*x^(g*n) + c*x^(2*g*n))^p, x], x, x^(1/g)], x]] /; FreeQ[
 {a, b, c, p}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0
] && FractionQ[n]`
2325. `Int[(Pq_)/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x_Symbol] :>
 With[{q = Rt[b^2 - 4*a*c, 2]}, Simp[2*(c/q) Int[Pq/(b - q + 2*c*x^n)
 , x], x] - Simp[2*(c/q) Int[Pq/(b + q + 2*c*x^n), x], x]] /; FreeQ[{
 a, b, c, n}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0]`
2326. `Int[(P3_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol]
 :> With[{d = Coeff[P3, x^n, 0], e = Coeff[P3, x^n, 1], f = Coeff[P3, x
 ^n, 2], g = Coeff[P3, x^n, 3]}, Simp[(-x)*(b^2*c*d - 2*a*c*(c*d - a*f)
 - a*b*(c*e + a*g) + (b*c*(c*d + a*f) - a*b^2*g - 2*a*c*(c*e - a*g))*x
 ^n*((a + b*x^n + c*x^(2*n))^(p + 1)/(a*c*n*(p + 1)*(b^2 - 4*a*c))), x
] - Simp[1/(a*c*n*(p + 1)*(b^2 - 4*a*c)) Int[(a + b*x^n + c*x^(2*n))
 ^ (p + 1)*Simp[a*b*(c*e + a*g) - b^2*c*d*(n + n*p + 1) - 2*a*c*(a*f - c
 d(2*n*(p + 1) + 1)) + (a*b^2*g*(n*(p + 2) + 1) - b*c*(c*d + a*f)*(n*
 (2*p + 3) + 1) - 2*a*c*(a*g*(n + 1) - c*e*(n*(2*p + 3) + 1)))*x^n, x],
 x], x]] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*n] && PolyQ[P3, x^n, 3
] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p, -1]`
2327. `Int[(P2_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol]
 :> With[{d = Coeff[P2, x^n, 0], e = Coeff[P2, x^n, 1], f = Coeff[P2, x
 ^n, 2]}, Simp[(-x)*(b^2*d - 2*a*(c*d - a*f) - a*b*e + (b*(c*d + a*f) -
 2*a*c*e)*x^n*((a + b*x^n + c*x^(2*n))^(p + 1)/(a*n*(p + 1)*(b^2 - 4*
 a*c))), x] - Simp[1/(a*n*(p + 1)*(b^2 - 4*a*c)) Int[(a + b*x^n + c*x
 ^ (2*n))^(p + 1)*Simp[a*b*e - b^2*d*(n + n*p + 1) - 2*a*(a*f - c*d*(2*n
 (p + 1) + 1)) - (b(c*d + a*f)*(n*(2*p + 3) + 1) - 2*a*c*e*(n*(2*p +
 3) + 1))*x^n, x], x], x]] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*n] &&
 PolyQ[P2, x^n, 2] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p, -1]`
2328. `Int[(Pq_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol]
] :> Int[ExpandIntegrand[Pq*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ
 [{a, b, c, n}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && ILtQ[p, -1]`

2329. `Int[(Pq_)*((a_) + (b_.)*(x_)^(n_.) + (c_.)*(x_)^(n2_.))^p_], x_Symbol] := Unintegrable[Pq*(a + b*x^n + c*x^(2*n))^p, x] /; FreeQ[{a, b, c, n, p}, x] && EqQ[n2, 2*n] && (PolyQ[Pq, x] || PolyQ[Pq, x^n])`
2330. `Int[(Pq_)*((a_) + (c_.)*(v_)^(n2_.) + (b_.)*(v_)^(n_.))^p_], x_Symbol] := Simp[1/Coefficient[v, x, 1] Subst[Int[SubstFor[v, Pq, x]*(a + b*x^n + c*x^(2*n))^p, x], x, v], x] /; FreeQ[{a, b, c, n, p}, x] && EqQ[n2, 2*n] && LinearQ[v, x] && PolyQ[Pq, v^n]`
2331. `Int[(Pq_)*(x_)^(m_.)*((a_) + (b_.)*(x_)^2)^p_], x_Symbol] := Simp[1/2 Subst[Int[x^((m - 1)/2)*SubstFor[x^2, Pq, x]*(a + b*x)^p, x], x, x^2], x] /; FreeQ[{a, b, p}, x] && PolyQ[Pq, x^2] && IntegerQ[(m - 1)/2]`
2332. `Int[(P2_)*((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2)^p_], x_Symbol] := With[{f = Coeff[P2, x, 0], g = Coeff[P2, x, 1], h = Coeff[P2, x, 2]}, Simp[h*(c*x)^(m + 1)*((a + b*x^2)^(p + 1)/(b*c*(m + 2*p + 3))), x] /; EqQ[g, 0] && EqQ[a*h*(m + 1) - b*f*(m + 2*p + 3), 0] /; FreeQ[{a, b, c, m, p}, x] && PolyQ[P2, x, 2] && NeQ[m, -1]`
2333. `Int[(Pq_)*((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2)^p_], x_Symbol] := Int[ExpandIntegrand[(c*x)^m*Pq*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, m}, x] && PolyQ[Pq, x] && IGtQ[p, -2]`
2334. `Int[(Pq_)*(x_)^(m_.)*((a_) + (b_.)*(x_)^2)^p_], x_Symbol] := With[{A = Coeff[Pq, x, 0], Q = PolynomialQuotient[Pq - Coeff[Pq, x, 0], x^2, x]}, Simp[A*x^(m + 1)*((a + b*x^2)^(p + 1)/(a*(m + 1))), x] + Simp[1/(a*(m + 1)) Int[x^(m + 2)*(a + b*x^2)^p*(a*(m + 1)*Q - A*b*(m + 2*(p + 1) + 1)), x], x] /; FreeQ[{a, b}, x] && PolyQ[Pq, x^2] && IntegerQ[m/2] && ILtQ[(m + 1)/2 + p, 0] && LtQ[m + Expon[Pq, x] + 2*p + 1, 0]`
2335. `Int[(Pq_)*((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^2)^p_], x_Symbol] := With[{Q = PolynomialQuotient[Pq, a + b*x^2, x], f = Coeff[PolynomialRemainder[Pq, a + b*x^2, x], x, 0], g = Coeff[PolynomialRemainder[Pq, a + b*x^2, x], x, 1]}, Simp[(c*x)^m*(a + b*x^2)^(p + 1)*((a*g - b*f*x)/(`

- ```

2*a*b*(p + 1))), x] + Simp[c/(2*a*b*(p + 1)) Int[(c*x)^(m - 1)*(a +
b*x^2)^(p + 1)*ExpandToSum[2*a*b*(p + 1)*x*Q - a*g*m + b*f*(m + 2*p +
3)*x, x], x]] /; FreeQ[{a, b, c}, x] && PolyQ[Pq, x] && LtQ[p, -1]
&& GtQ[m, 0]

2336. Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=
With[{Q = PolynomialQuotient[(c*x)^m*Pq, a + b*x^2, x], f = Coeff[Poly
nomialRemainder[(c*x)^m*Pq, a + b*x^2, x], x, 0], g = Coeff[Polynomial
Remainder[(c*x)^m*Pq, a + b*x^2, x], x, 1]}, Simp[(a*g - b*f*x)*((a +
b*x^2)^(p + 1)/(2*a*b*(p + 1))), x] + Simp[1/(2*a*(p + 1)) Int[(c*x)
^m*(a + b*x^2)^(p + 1)*ExpandToSum[(2*a*(p + 1)*Q)/(c*x)^m + (f*(2*p +
3))/(c*x)^m, x], x], x]] /; FreeQ[{a, b, c}, x] && PolyQ[Pq, x] && Lt
Q[p, -1] && ILtQ[m, 0]

2337. Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=
With[{Q = PolynomialQuotient[Pq, a + b*x^2, x], f = Coeff[PolynomialRe
mainder[Pq, a + b*x^2, x], x, 0], g = Coeff[PolynomialRemainder[Pq, a
+ b*x^2, x], x, 1]}, Simp[(-(c*x)^(m + 1))*(f + g*x)*((a + b*x^2)^(p +
1)/(2*a*c*(p + 1))), x] + Simp[1/(2*a*(p + 1)) Int[(c*x)^m*(a + b*x
^2)^(p + 1)*ExpandToSum[2*a*(p + 1)*Q + f*(m + 2*p + 3) + g*(m + 2*p +
4)*x, x], x], x]] /; FreeQ[{a, b, c, m}, x] && PolyQ[Pq, x] && LtQ[p,
-1] && !GtQ[m, 0]

2338. Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := W
ith[{Q = PolynomialQuotient[Pq, c*x, x], R = PolynomialRemainder[Pq, c
x, x]}, Simp[R(c*x)^(m + 1)*((a + b*x^2)^(p + 1)/(a*c*(m + 1))), x]
+ Simp[1/(a*c*(m + 1)) Int[(c*x)^(m + 1)*(a + b*x^2)^p*ExpandToSum[a
c(m + 1)*Q - b*R*(m + 2*p + 3)*x, x], x], x]] /; FreeQ[{a, b, c, p},
x] && PolyQ[Pq, x] && LtQ[m, -1] && (IntegerQ[2*p] || NeQ[Expon[Pq, x
], 1])

2339. Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=
With[{q = Expon[Pq, x]}, Simp[Coeff[Pq, x, q]/c^q Int[(c*x)^(m + q)
*(a + b*x^2)^p, x], x] + Simp[1/c^q Int[(c*x)^m*(a + b*x^2)^p*Expand
ToSum[c^q*Pq - Coeff[Pq, x, q]*(c*x)^q, x], x], x]] /; EqQ[q, 1] || EqQ
[m + q + 2*p + 1, 0]] /; FreeQ[{a, b, c, m, p}, x] && PolyQ[Pq, x] &&
! (IGtQ[m, 0] && ILtQ[p + 1/2, 0])

```

2340. `Int[(Pq_)*((c_)*(x_)^(m_))*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] :=  
 With[{q = Expon[Pq, x], f = Coeff[Pq, x, Expon[Pq, x]]}, Simp[f*(c*x)^(  
 (m + q - 1)*((a + b*x^2)^(p + 1)/(b*c^(q - 1)*(m + q + 2*p + 1))), x]  
 + Simp[1/(b*(m + q + 2*p + 1)) Int[(c*x)^m*(a + b*x^2)^p*ExpandToSum  
 [b*(m + q + 2*p + 1)*Pq - b*f*(m + q + 2*p + 1)*x^q - a*f*(m + q - 1)*  
 x^(q - 2), x], x] /; GtQ[q, 1] && NeQ[m + q + 2*p + 1, 0] /; Free  
 Q[{a, b, c, m, p}, x] && PolyQ[Pq, x] && (!IGtQ[m, 0] || IGtQ[p + 1/2  
 , -1])`
2341. `Int[(Pq_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[ExpandIntegran  
 d[Pq*(a + b*x^2)^p, x], x] /; FreeQ[{a, b}, x] && PolyQ[Pq, x] && IGtQ  
 [p, -2]`
2342. `Int[(Pq_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[x*PolynomialQuo  
 tient[Pq, x, x]*(a + b*x^2)^p, x] /; FreeQ[{a, b, p}, x] && PolyQ[Pq,  
 x] && EqQ[Coeff[Pq, x, 0], 0] && !MatchQ[Pq, x^(m_)*(u_)] /; Integer  
 Q[m]`
2343. `Int[(Px_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[PolynomialQuot  
 ient[Px, a + b*x^2, x]*(a + b*x^2)^(p + 1), x] /; FreeQ[{a, b, p}, x]  
 && PolyQ[Px, x] && EqQ[PolynomialRemainder[Px, a + b*x^2, x], 0]`
2344. `Int[(Pq_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{A = Coeff[Pq,  
 x, 0], Q = PolynomialQuotient[Pq - Coeff[Pq, x, 0], x^2, x]}, Simp[A*  
 x*((a + b*x^2)^(p + 1)/a), x] + Simp[1/a Int[x^2*(a + b*x^2)^p*(a*Q  
 - A*b*(2*p + 3)), x], x] /; FreeQ[{a, b}, x] && PolyQ[Pq, x^2] && ILt  
 Q[p + 1/2, 0] && LtQ[Expon[Pq, x] + 2*p + 1, 0]`
2345. `Int[(Pq_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{Q = Polynomia  
 lQuotient[Pq, a + b*x^2, x], f = Coeff[PolynomialRemainder[Pq, a + b*x  
 ^2, x], x, 0], g = Coeff[PolynomialRemainder[Pq, a + b*x^2, x], x, 1]}  
 , Simp[(a*g - b*f*x)*((a + b*x^2)^(p + 1)/(2*a*b*(p + 1))), x] + Simp[  
 1/(2*a*(p + 1)) Int[(a + b*x^2)^(p + 1)*ExpandToSum[2*a*(p + 1)*Q +  
 f*(2*p + 3), x], x], x] /; FreeQ[{a, b}, x] && PolyQ[Pq, x] && LtQ[p,  
 -1]`

2346. `Int[(Pq_)*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := With[{q = Expon[Pq, x], e = Coeff[Pq, x, Expon[Pq, x]]}, Simp[e*x^(q - 1)*((a + b*x^2)^(p + 1)/(b*(q + 2*p + 1))), x] + Simp[1/(b*(q + 2*p + 1)) Int[(a + b*x^2)^p*ExpandToSum[b*(q + 2*p + 1)*Pq - a*e*(q - 1)*x^(q - 2) - b*e*(q + 2*p + 1)*x^q, x], x], x] /; FreeQ[{a, b, p}, x] && PolyQ[Pq, x] && !LeQ[p, -1]`
2347. `Int[(Px_)*((c_) + (d_)*(x_)^(m_))*((e_) + (f_)*(x_)^(n_))*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[PolynomialQuotient[Px, c + d*x, x]*(c + d*x)^(m + 1)*(e + f*x)^n*(a + b*x^2)^p, x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && PolynomialQ[Px, x] && EqQ[PolynomialRemainder[Px, c + d*x, x], 0]`
2348. `Int[(Px_)*((c_) + (d_)*(x_)^(m_))*((e_) + (f_)*(x_)^(n_))*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[ExpandIntegrand[Px*(c + d*x)^m*(e + f*x)^n*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && PolyQ[Px, x] && (IntegerQ[p] || (IntegerQ[2*p] && IntegerQ[m] && ILtQ[n, 0])) && !(IGtQ[m, 0] && IGtQ[n, 0])`
2349. `Int[(Px_)*((c_) + (d_)*(x_)^(m_))*((e_) + (f_)*(x_)^(n_))*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[PolynomialQuotient[Px, c + d*x, x]*(c + d*x)^(m + 1)*(e + f*x)^n*(a + b*x^2)^p, x] + Simp[PolynomialRemainder[Px, c + d*x, x] Int[(c + d*x)^m*(e + f*x)^n*(a + b*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && PolynomialQ[Px, x] && LtQ[m, 0] && !IntegerQ[n] && IntegersQ[2*m, 2*n, 2*p]`
2350. `Int[(Px_)*((e_)*(x_)^(m_))*((c_) + (d_)*(x_)^(n_))*((a_) + (b_)*(x_)^2)^(p_), x_Symbol] := Int[PolynomialQuotient[Px, c + d*x, x]*(e*x)^m*(c + d*x)^(n + 1)*(a + b*x^2)^p, x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && PolynomialQ[Px, x] && EqQ[PolynomialRemainder[Px, c + d*x, x], 0]`
2351. `Int[((Px_)*((c_) + (d_)*(x_)^(n_))*((a_) + (b_)*(x_)^2)^(p_))/(x_), x_Symbol] := Int[PolynomialQuotient[Px, x, x]*(c + d*x)^n*(a + b*x^2)^p, x] + Simp[PolynomialRemainder[Px, x, x] Int[(c + d*x)^n*((a + b*x^2)^p/x), x], x] /; FreeQ[{a, b, c, d, n, p}, x] && PolynomialQ[Px, x]`

2352.  $\text{Int}[(P_x) * ((e) * (x))^{(m)} / (\text{Sqrt}[(c) + (d) * (x)] * \text{Sqrt}[(a) + (b) * (x)^2]), x\_Symbol] \rightarrow \text{With}[\{Px0 = \text{Coefficient}[Px, x, 0]\}, \text{Simp}[Px0 * (e * x)^{(m+1)} * \text{Sqrt}[c + d * x] * (\text{Sqrt}[a + b * x^2] / (a * c * e^{(m+1)})), x] + \text{Simp}[1 / (2 * a * c * e^{(m+1)}) \text{Int}[(e * x)^{(m+1)} / (\text{Sqrt}[c + d * x] * \text{Sqrt}[a + b * x^2])] * \text{ExpandToSum}[2 * a * c * (m+1) * ((Px - Px0) / x) - Px0 * (a * d * (2 * m + 3) + 2 * b * c * (m+2) * x + b * d * (2 * m + 5) * x^2), x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolynomialQ}[Px, x] \&\& \text{LtQ}[m, -1]$
2353.  $\text{Int}[(P_x) * ((e) * (x))^{(m)} * ((c) + (d) * (x))^{(n)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Px * (e * x)^m * (c + d * x)^n * (a + b * x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x] \&\& \text{PolyQ}[Px, x] \&\& (\text{IntegerQ}[p] \mid\mid (\text{IntegerQ}[2 * p] \&\& \text{IntegerQ}[m] \&\& \text{ILtQ}[n, 0]))$
2354.  $\text{Int}[(P_x) * ((e) * (x))^{(m)} * ((c) + (d) * (x))^{(n)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[k / e \text{Subst}[\text{Int}[(Px /. x \rightarrow x^k / e) * x^{(k * (m+1) - 1)} * (c + d * (x^k / e))^n * (a + b * (x^{(2 * k) / e^2})^p, x], x, (e * x)^{(1/k)}], x]] /; \text{FreeQ}[\{a, b, c, d, e, n, p\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{FractionQ}[m]$
2355.  $\text{Int}[(P_x) * ((e) * (x))^{(m)} * ((c) + (d) * (x))^{(n)} * ((a) + (b) * (x)^2)^{(p)}, x\_Symbol] \rightarrow \text{Int}[\text{PolynomialQuotient}[Px, c + d * x, x] * (e * x)^m * (c + d * x)^{(n+1)} * (a + b * x^2)^p, x] + \text{Simp}[\text{PolynomialRemainder}[Px, c + d * x, x] \text{Int}[(e * x)^m * (c + d * x)^n * (a + b * x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, p\}, x] \&\& \text{PolynomialQ}[Px, x] \&\& \text{LtQ}[n, 0]$
2356.  $\text{Int}[(x)^{(m)} * ((e) + (h) * (x)^{(n)} + (f) * (x)^{(q)} + (g) * (x)^{(r)}) / ((a) + (c) * (x)^{(n)})^{(3/2)}, x\_Symbol] \rightarrow \text{Simp}[-(2 * a * g + 4 * a * h * x^{(n/4)} - 2 * c * f * x^{(n/2)}) / (a * c * n * \text{Sqrt}[a + c * x^n]), x] /; \text{FreeQ}[\{a, c, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[q, n/4] \&\& \text{EqQ}[r, 3 * (n/4)] \&\& \text{EqQ}[4 * m - n + 4, 0] \&\& \text{EqQ}[c * e + a * h, 0]$
2357.  $\text{Int}[(x)^{(m)} * ((e) + (h) * (x)^{(n)} + (f) * (x)^{(q)} + (g) * (x)^{(r)}) / ((a) + (c) * (x)^{(n)})^{(3/2)}, x\_Symbol] \rightarrow \text{Simp}[(d * x)^m / x^m \text{Int}[x^m * ((e + f * x^{(n/4)} + g * x^{((3 * n) / 4)} + h * x^n) / (a + c * x^n)^{(3/2)}], x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[4 * m$

- n + 4, 0] && EqQ[q, n/4] && EqQ[r, 3\*(n/4)] && EqQ[c\*e + a\*h, 0]
2358. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_))^(p_), x_Symbol] := With`  
`h[{n = Denominator[p]}, Simp[n/b Subst[Int[x^(n*p + n - 1)*((-a)*(c/`  
`b) + c*(x^n/b)]^m*(Pq /. x -> -a/b + x^n/b), x], x, (a + b*x)^(1/n)],`  
`x]] /; FreeQ[{a, b, c, m}, x] && PolyQ[Pq, x] && FractionQ[p] && ILtQ[`  
`m, -1]`
2359. `Int[(Pq_)*(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp`  
`[1/(m + 1) Subst[Int[SubstFor[x^(m + 1), Pq, x]*(a + b*x^Simplify[n/`  
`(m + 1)])^p, x], x, x^(m + 1)], x] /; FreeQ[{a, b, m, n, p}, x] && NeQ`  
`[m, -1] && IGtQ[Simplify[n/(m + 1)], 0] && PolyQ[Pq, x^(m + 1)]`
2360. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol`  
`] := Int[ExpandIntegrand[(c*x)^m*Pq*(a + b*x^n)^p, x], x] /; FreeQ[{a,`  
`b, c, m, n}, x] && PolyQ[Pq, x] && (IGtQ[p, 0] || EqQ[n, 1])`
2361. `Int[(Pq_)*(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp`  
`[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*SubstFor[x^n, Pq, x]*(a +`  
`b*x)^p, x], x, x^n], x] /; FreeQ[{a, b, m, n, p}, x] && PolyQ[Pq, x^n`  
`] && IntegerQ[Simplify[(m + 1)/n]]`
2362. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol]`  
`:= Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*Pq*(a`  
`+ b*x^n)^p, x], x] /; FreeQ[{a, b, c, m, n, p}, x] && PolyQ[Pq, x^n]`  
`&& IntegerQ[Simplify[(m + 1)/n]]`
2363. `Int[(Pq_)*(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[`  
`Pq*((a + b*x^n)^(p + 1)/(b*n*(p + 1))), x] - Simp[1/(b*n*(p + 1)) In`  
`t[D[Pq, x]*(a + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b, m, n}, x] && Po`  
`lyQ[Pq, x] && EqQ[m - n + 1, 0] && LtQ[p, -1]`
2364. `Int[(Pq_)*(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Modu`  
`le[{u = IntHide[x^m*Pq, x]}, Simp[u*(a + b*x^n)^p, x] - Simp[b*n*p I`  
`nt[x^(m + n)*(a + b*x^n)^(p - 1)*ExpandToSum[u/x^(m + 1), x], x], x]]`  
`/; FreeQ[{a, b}, x] && PolyQ[Pq, x] && IGtQ[n, 0] && GtQ[p, 0] && LtQ[`



$m + \text{Expon}[\text{Pq}, x] + 1, 0]$

2365.  $\text{Int}[(\text{Pq}_.) * ((c_.) * (x_.))^{\text{m}_.} * ((a_.) + (b_.) * (x_.)^{\text{n}_.})^{\text{p}_.}, x\_Symbol]$   
 $:\> \text{Module}[\{q = \text{Expon}[\text{Pq}, x], i\}, \text{Simp}[(c*x)^m * (a + b*x^n)^p * \text{Sum}[\text{Coeff}[\text{Pq}, x, i] * (x^{i+1}) / (m + n*p + i + 1)], \{i, 0, q\}], x] + \text{Simp}[a*n*p$   
 $\text{Int}[(c*x)^m * (a + b*x^n)^{p-1} * \text{Sum}[\text{Coeff}[\text{Pq}, x, i] * (x^i / (m + n*p + i + 1))], \{i, 0, q\}], x], x]] /; \text{FreeQ}[\{a, b, c, m\}, x] \&\& \text{PolyQ}[\text{Pq}, x]$   
 $\&\& \text{IGtQ}[(n - 1)/2, 0] \&\& \text{GtQ}[p, 0]$
2366.  $\text{Int}[(\text{P4}_.) * (x_.)^2 / ((a_.) + (b_.) * (x_.)^4)^{3/2}, x\_Symbol] :\> \text{With}[\{e =$   
 $\text{Coeff}[\text{P4}, x, 0], f = \text{Coeff}[\text{P4}, x, 1], h = \text{Coeff}[\text{P4}, x, 4]\}, \text{Simp}[-(f$   
 $- 2*h*x^3) / (2*b*\text{Sqrt}[a + b*x^4]), x] /; \text{EqQ}[b*e - 3*a*h, 0]] /; \text{FreeQ}[\{a, b\}, x]$   
 $\&\& \text{PolyQ}[\text{P4}, x, 4] \&\& \text{EqQ}[\text{Coeff}[\text{P4}, x, 2], 0] \&\& \text{EqQ}[\text{Coeff}[\text{P4}, x, 3], 0]$
2367.  $\text{Int}[(\text{Pq}_.) * (x_.)^{\text{m}_.} * ((a_.) + (b_.) * (x_.)^{\text{n}_.})^{\text{p}_.}, x\_Symbol] :\> \text{With}$   
 $[\{q = m + \text{Expon}[\text{Pq}, x]\}, \text{Module}[\{Q = \text{PolynomialQuotient}[b^{\text{Floor}[(q -$   
 $1)/n] + 1} * x^m * \text{Pq}, a + b*x^n, x], R = \text{PolynomialRemainder}[b^{\text{Floor}[(q$   
 $- 1)/n] + 1} * x^m * \text{Pq}, a + b*x^n, x]\}, \text{Simp}[(-x)*R * ((a + b*x^n)^{p+1} /$   
 $(a*n*(p+1)*b^{\text{Floor}[(q-1)/n]+1})], x] + \text{Simp}[1 / (a*n*(p+1)*b^{\text{Floor}[(q-1)/n]+1})$   
 $\text{Int}[(a + b*x^n)^{p+1} * \text{ExpandToSum}[a*n*(p+1)*Q + n*(p+1)*R + D[x*R, x], x], x]] /; \text{GeQ}[q, n]] /; \text{FreeQ}[\{a,$   
 $b\}, x] \&\& \text{PolyQ}[\text{Pq}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IGtQ}[m, 0]$
2368.  $\text{Int}[(\text{Pq}_.) * (x_.)^{\text{m}_.} * ((a_.) + (b_.) * (x_.)^{\text{n}_.})^{\text{p}_.}, x\_Symbol] :\> \text{With}$   
 $[\{q = \text{Expon}[\text{Pq}, x]\}, \text{Module}[\{Q = \text{PolynomialQuotient}[a*b^{\text{Floor}[(q - 1)/$   
 $n] + 1} * x^m * \text{Pq}, a + b*x^n, x], R = \text{PolynomialRemainder}[a*b^{\text{Floor}[(q -$   
 $1)/n] + 1} * x^m * \text{Pq}, a + b*x^n, x], i\}, \text{Simp}[(-x)*R * ((a + b*x^n)^{p+1} /$   
 $(a^2*n*(p+1)*b^{\text{Floor}[(q-1)/n]+1})], x] + \text{Simp}[1 / (a*n*(p+1)*$   
 $b^{\text{Floor}[(q-1)/n]+1}) \text{Int}[x^m * (a + b*x^n)^{p+1} * \text{ExpandToSum}[(n$   
 $*(p+1)*Q) / x^m + \text{Sum}[(n*(p+1) + i + 1) / a * \text{Coeff}[R, x, i] * x^{i-m}], \{i, 0, n - 1\}], x], x], x]] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PolyQ}[\text{Pq}, x] \&\&$   
 $\text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{ILtQ}[m, 0]$
2369.  $\text{Int}[(\text{Pq}_.) * (x_.)^{\text{m}_.} * ((a_.) + (b_.) * (x_.)^{\text{n}_.})^{\text{p}_.}, x\_Symbol] :\> \text{With}$   
 $[\{g = \text{GCD}[m + 1, n]\}, \text{Simp}[1/g \text{Subst}[\text{Int}[x^{(m+1)/g - 1} * (\text{Pq} /. x \rightarrow$   
 $x^{1/g}) * (a + b*x^{n/g})^p, x], x, x^g], x] /; g \neq 1] /; \text{FreeQ}[\{a,$

- b, p}, x] && PolyQ[Pq, x^n] && IGtQ[n, 0] && IntegerQ[m]
2370. `Int[((Pq_)*((c_)*(x_))^(m_))/((a_) + (b_)*(x_)^(n_)), x_Symbol] :=  
With[{v = Sum[(c*x)^(m + ii)*((Coeff[Pq, x, ii] + Coeff[Pq, x, n/2 + i  
i]*x^(n/2)))/(c^ii*(a + b*x^n))], {ii, 0, n/2 - 1}}, Int[v, x] /; SumQ  
[v]] /; FreeQ[{a, b, c, m}, x] && PolyQ[Pq, x] && IGtQ[n/2, 0] && Expo  
n[Pq, x] < n`
2371. `Int[(Pq_)/((x_)*Sqrt[(a_) + (b_)*(x_)^(n_)]), x_Symbol] := Simp[Coeff  
[Pq, x, 0] Int[1/(x*Sqrt[a + b*x^n]), x], x] + Int[ExpandToSum[(Pq -  
Coeff[Pq, x, 0])/x, x]/Sqrt[a + b*x^n], x] /; FreeQ[{a, b}, x] && Pol  
yQ[Pq, x] && IGtQ[n, 0] && NeQ[Coeff[Pq, x, 0], 0]`
2372. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol]  
:= Module[{q = Expon[Pq, x], j, k}, Int[Sum[((c*x)^(m + j)/c^j)*Sum[Co  
eff[Pq, x, j + k*(n/2)]*x^(k*(n/2)), {k, 0, 2*((q - j)/n) + 1}*(a + b  
*x^n)^p, {j, 0, n/2 - 1}], x] /; FreeQ[{a, b, c, m, p}, x] && PolyQ[P  
q, x] && IGtQ[n/2, 0] && !PolyQ[Pq, x^(n/2)]`
2373. `Int[((Pq_)*((c_)*(x_))^(m_))/((a_) + (b_)*(x_)^(n_)), x_Symbol] :=  
Int[ExpandIntegrand[(c*x)^m*(Pq/(a + b*x^n)), x], x] /; FreeQ[{a, b, c  
, m}, x] && PolyQ[Pq, x] && IntegerQ[n] && !IGtQ[m, 0]`
2374. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :  
> With[{Pq0 = Coeff[Pq, x, 0]}, Simp[Pq0*(c*x)^(m + 1)*((a + b*x^n)^(p  
+ 1)/(a*c*(m + 1))], x] + Simp[1/(2*a*c*(m + 1)) Int[(c*x)^(m + 1)*  
ExpandToSum[2*a*(m + 1)*((Pq - Pq0)/x) - 2*b*Pq0*(m + n*(p + 1) + 1)*x  
^(n - 1), x]*(a + b*x^n)^p, x], x] /; NeQ[Pq0, 0] /; FreeQ[{a, b, c,  
p}, x] && PolyQ[Pq, x] && IGtQ[n, 0] && LtQ[m, -1] && LeQ[n - 1, Expon  
[Pq, x]]`
2375. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol]  
:= With[{q = Expon[Pq, x]}, With[{Pqq = Coeff[Pq, x, q]}, Simp[Pqq*(c*  
x)^(m + q - n + 1)*((a + b*x^n)^(p + 1)/(b*c^(q - n + 1)*(m + q + n*p  
+ 1))], x] + Simp[1/(b*(m + q + n*p + 1)) Int[(c*x)^m*ExpandToSum[b*  
(m + q + n*p + 1)*(Pq - Pqq*x^q) - a*Pqq*(m + q - n + 1)*x^(q - n), x]  
*(a + b*x^n)^p, x], x]] /; NeQ[m + q + n*p + 1, 0] && q - n >= 0 && (I`

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IntegerQ[2*p] || IntegerQ[p + (q + 1)/(2*n)]] /; FreeQ[{a, b, c, m, p}
, x] && PolyQ[Pq, x] && IGtQ[n, 0]

```
2376. `Int[(Pq_)*(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := With[
{q = Expon[Pq, x]}, -Subst[Int[ExpandToSum[x^q*(Pq /. x -> x^(-1)), x]
* ((a + b/x^n)^p/x^(m + q + 2)), x], x, 1/x]] /; FreeQ[{a, b, p}, x] &&
PolyQ[Pq, x] && ILtQ[n, 0] && IntegerQ[m]`
2377. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol]
:= With[{g = Denominator[m], q = Expon[Pq, x]}, Simp[-g/c Subst[Int[
ExpandToSum[x^(g*q)*(Pq /. x -> 1/(c*x^g)), x]*((a + b/(c^n*x^(g*n)))^
p/x^(g*(m + q + 1) + 1)), x], x, 1/(c*x)^(1/g)], x]] /; FreeQ[{a, b, c
, p}, x] && PolyQ[Pq, x] && ILtQ[n, 0] && FractionQ[m]`
2378. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :
> With[{q = Expon[Pq, x]}, Simp[(-(c*x)^m)*(x^(-1))^m Subst[Int[Expa
ndToSum[x^q*(Pq /. x -> x^(-1)), x]*((a + b/x^n)^p/x^(m + q + 2)), x],
x, 1/x], x]] /; FreeQ[{a, b, c, m, p}, x] && PolyQ[Pq, x] && ILtQ[n,
0] && !RationalQ[m]`
2379. `Int[(Pq_)*(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := With[
{g = Denominator[n]}, Simp[g Subst[Int[x^(g*(m + 1) - 1)*(Pq /. x ->
x^g)*(a + b*x^(g*n))^p, x], x, x^(1/g)], x]] /; FreeQ[{a, b, m, p}, x
] && PolyQ[Pq, x] && FractionQ[n]`
2380. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :=
Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*Pq*(a +
b*x^n)^p, x], x] /; FreeQ[{a, b, c, m, p}, x] && PolyQ[Pq, x] && Frac
tionQ[n]`
2381. `Int[(Pq_)*(x_)^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[
1/(m + 1) Subst[Int[(SubstFor[x^n, Pq, x] /. x -> x^Simplify[n/(m +
1)])*(a + b*x^Simplify[n/(m + 1)])^p, x], x, x^(m + 1)], x] /; FreeQ[{
a, b, m, n, p}, x] && PolyQ[Pq, x^n] && IntegerQ[Simplify[n/(m + 1)]]
&& !IntegerQ[n]`

2382. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :=
Simp[c^IntPart[m]*((c*x)^FracPart[m]/x^FracPart[m]) Int[x^m*Pq*(a +
b*x^n)^p, x], x] /; FreeQ[{a, b, c, m, n, p}, x] && PolyQ[Pq, x^n] &&
IntegerQ[Simplify[n/(m + 1)]] && !IntegerQ[n]`
2383. `Int[(Pq_)*((c_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol]
:= Int[ExpandIntegrand[(c*x)^m*Pq*(a + b*x^n)^p, x], x] /; FreeQ[{a,
b, c, m, n, p}, x] && (PolyQ[Pq, x] || PolyQ[Pq, x^n]) && !IGtQ[m, 0]`
2384. `Int[(Pq_)*(u_)^(m_)*((a_) + (b_)*(v_)^(n_))^(p_), x_Symbol] := Simp
[u^m/(Coeff[v, x, 1]*v^m) Subst[Int[x^m*SubstFor[v, Pq, x]*(a + b*x^
n)^p, x], x, v], x] /; FreeQ[{a, b, m, n, p}, x] && LinearPairQ[u, v,
x] && PolyQ[Pq, v^n]`
2385. `Int[(Pq_)*((c_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_)
+ (b2_)*(x_)^(n_))^(p_), x_Symbol] := Int[(c*x)^m*Pq*(a1*a2 + b1*b2
*x^(2*n))^p, x] /; FreeQ[{a1, b1, a2, b2, c, m, n, p}, x] && PolyQ[Pq,
x] && EqQ[a2*b1 + a1*b2, 0] && (IntegerQ[p] || (GtQ[a1, 0] && GtQ[a2,
0]))`
2386. `Int[(Pq_)*((c_)*(x_))^(m_)*((a1_) + (b1_)*(x_)^(n_))^(p_)*((a2_)
+ (b2_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(a1 + b1*x^n)^FracPart[p
]*((a2 + b2*x^n)^FracPart[p]/(a1*a2 + b1*b2*x^(2*n))^FracPart[p]) In
t[(c*x)^m*Pq*(a1*a2 + b1*b2*x^(2*n))^p, x], x] /; FreeQ[{a1, b1, a2, b
2, c, m, n, p}, x] && PolyQ[Pq, x] && EqQ[a2*b1 + a1*b2, 0] && !(EqQ[
n, 1] && LinearQ[Pq, x])`
2387. `Int[((h_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(
x_)^(n_))^(p_)*((e_) + (f_)*(x_)^(n_) + (g_)*(x_)^(n2_)), x_Symb
ol] := Simp[e*(h*x)^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^(p + 1)/(
a*c*h*(m + 1))), x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, p}, x] &&
EqQ[n2, 2*n] && EqQ[a*c*f*(m + 1) - e*(b*c + a*d)*(m + n*(p + 1) + 1),
0] && EqQ[a*c*g*(m + 1) - b*d*e*(m + 2*n*(p + 1) + 1), 0] && NeQ[m, -
1]`
2388. `Int[((h_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*((c_) + (d_)*(
x_)^(n_))^(p_)*((e_) + (g_)*(x_)^(n2_)), x_Symbol] := Simp[e*(h*x)`

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^(m + 1)*(a + b*x^n)^(p + 1)*((c + d*x^n)^(p + 1)/(a*c*h*(m + 1))), x]
/; FreeQ[{a, b, c, d, e, g, h, m, n, p}, x] && EqQ[n2, 2*n] && EqQ[m
+ n*(p + 1) + 1, 0] && EqQ[a*c*g*(m + 1) - b*d*e*(m + 2*n*(p + 1) + 1)
, 0] && NeQ[m, -1]

```
2389. `Int[(Pq_)*((a_) + (b_.)*(x_)^(n_.))^(p_.), x_Symbol] := Int[ExpandIntegrand[Pq*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, n}, x] && PolyQ[Pq, x] && (IGtQ[p, 0] || EqQ[n, 1])`
2390. `Int[(Pq_)*((a_) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] := Int[x*PolynomialQuotient[Pq, x, x]*(a + b*x^n)^p, x] /; FreeQ[{a, b, n, p}, x] && PolyQ[Pq, x] && EqQ[Coeff[Pq, x, 0], 0] && !MatchQ[Pq, x^(m_.)*(u_.) /; IntegerQ[m]]`
2391. `Int[(Pq_)*((a_) + (b_.)*(x_)^(n_.))^(p_.), x_Symbol] := Int[PolynomialQuotient[Pq, a + b*x^n, x]*(a + b*x^n)^(p + 1), x] /; FreeQ[{a, b, p}, x] && PolyQ[Pq, x] && IGtQ[n, 0] && GeQ[Expon[Pq, x], n] && EqQ[PolynomialRemainder[Pq, a + b*x^n, x], 0]`
2392. `Int[(Pq_)*((a_) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] := Module[{q = Expon[Pq, x], i}, Simp[(a + b*x^n)^p*Sum[Coeff[Pq, x, i]*(x^(i + 1)/(n*p + i + 1)), {i, 0, q}], x] + Simp[a*n*p Int[(a + b*x^n)^(p - 1)*Sum[Coeff[Pq, x, i]*(x^i/(n*p + i + 1)), {i, 0, q}], x], x] /; FreeQ[{a, b}, x] && PolyQ[Pq, x] && IGtQ[(n - 1)/2, 0] && GtQ[p, 0]`
2393. `Int[(Pq_)*((a_) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] := Module[{q = Expon[Pq, x], i}, Simp[(a*Coeff[Pq, x, q] - b*x*ExpandToSum[Pq - Coeff[Pq, x, q]*x^q, x])*(a + b*x^n)^(p + 1)/(a*b*n*(p + 1)), x] + Simp[1/(a*n*(p + 1)) Int[Sum[(n*(p + 1) + i + 1)*Coeff[Pq, x, i]*x^i, {i, 0, q - 1}](a + b*x^n)^(p + 1), x], x] /; q == n - 1 /; FreeQ[{a, b}, x] && PolyQ[Pq, x] && IGtQ[n, 0] && LtQ[p, -1]`
2394. `Int[(Pq_)*((a_) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] := Simp[(-x)*Pq*((a + b*x^n)^(p + 1)/(a*n*(p + 1))), x] + Simp[1/(a*n*(p + 1)) Int[ExpandToSum[n*(p + 1)*Pq + D[x*Pq, x], x]*(a + b*x^n)^(p + 1), x], x] /; FreeQ[{a, b}, x] && PolyQ[Pq, x] && IGtQ[n, 0] && LtQ[p, -1] && LtQ[Ex`

pon[Pq, x], n - 1]

2395.  $\text{Int}[(P4\_)/((a\_)+(b\_)*(x\_)^4)^{(3/2)}, x\_Symbol] \rightarrow \text{With}[\{d = \text{Coeff}[P4, x, 0], e = \text{Coeff}[P4, x, 1], f = \text{Coeff}[P4, x, 3], g = \text{Coeff}[P4, x, 4]\}, \text{Simp}[-(a*f + 2*a*g*x - b*e*x^2)/(2*a*b*\text{Sqrt}[a + b*x^4]), x] /; \text{EqQ}[b*d + a*g, 0] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PolyQ}[P4, x, 4] \&\& \text{EqQ}[\text{Coeff}[P4, x, 2], 0]$
2396.  $\text{Int}[(P6\_)/((a\_)+(b\_)*(x\_)^4)^{(3/2)}, x\_Symbol] \rightarrow \text{With}[\{d = \text{Coeff}[P6, x, 0], e = \text{Coeff}[P6, x, 2], f = \text{Coeff}[P6, x, 3], g = \text{Coeff}[P6, x, 4], h = \text{Coeff}[P6, x, 6]\}, \text{Simp}[-(a*f - 2*b*d*x - 2*a*h*x^3)/(2*a*b*\text{Sqrt}[a + b*x^4]), x] /; \text{EqQ}[b*e - 3*a*h, 0] \&\& \text{EqQ}[b*d + a*g, 0] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PolyQ}[P6, x, 6] \&\& \text{EqQ}[\text{Coeff}[P6, x, 1], 0] \&\& \text{EqQ}[\text{Coeff}[P6, x, 5], 0]$
2397.  $\text{Int}[(Pq\_)*((a\_)+(b\_)*(x\_)^{(n\_}))^{(p\_)}, x\_Symbol] \rightarrow \text{With}[\{q = \text{Expon}[Pq, x]\}, \text{Module}[\{Q = \text{PolynomialQuotient}[b^{(\text{Floor}[(q - 1)/n] + 1)*Pq, a + b*x^n, x], R = \text{PolynomialRemainder}[b^{(\text{Floor}[(q - 1)/n] + 1)*Pq, a + b*x^n, x]\}, \text{Simp}[(-x)*R*((a + b*x^n)^{(p + 1})/(a*n*(p + 1)*b^{(\text{Floor}[(q - 1)/n] + 1))}), x] + \text{Simp}[1/(a*n*(p + 1)*b^{(\text{Floor}[(q - 1)/n] + 1)) \text{Int}[(a + b*x^n)^{(p + 1)}*\text{ExpandToSum}[a*n*(p + 1)*Q + n*(p + 1)*R + D[x*R, x], x], x] /; \text{GeQ}[q, n] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PolyQ}[Pq, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[p, -1]$
2398.  $\text{Int}[((A\_)+(B\_)*(x\_))/((a\_)+(b\_)*(x\_)^3), x\_Symbol] \rightarrow \text{Simp}[B^3/b \text{Int}[1/(A^2 - A*B*x + B^2*x^2), x], x] /; \text{FreeQ}[\{a, b, A, B\}, x] \&\& \text{EqQ}[a*B^3 - b*A^3, 0]$
2399.  $\text{Int}[((A\_)+(B\_)*(x\_))/((a\_)+(b\_)*(x\_)^3), x\_Symbol] \rightarrow \text{With}[\{r = \text{Numerator}[\text{Rt}[a/b, 3]], s = \text{Denominator}[\text{Rt}[a/b, 3]]\}, \text{Simp}[(-r)*((B*r - A*s)/(3*a*s)) \text{Int}[1/(r + s*x), x], x] + \text{Simp}[r/(3*a*s) \text{Int}[(r*(B*r + 2*A*s) + s*(B*r - A*s)*x)/(r^2 - r*s*x + s^2*x^2), x], x] /; \text{FreeQ}[\{a, b, A, B\}, x] \&\& \text{NeQ}[a*B^3 - b*A^3, 0] \&\& \text{PosQ}[a/b]$
2400.  $\text{Int}[((A\_)+(B\_)*(x\_))/((a\_)+(b\_)*(x\_)^3), x\_Symbol] \rightarrow \text{With}[\{r = \text{Numerator}[\text{Rt}[-a/b, 3]], s = \text{Denominator}[\text{Rt}[-a/b, 3]]\}, \text{Simp}[r*((B*r + A*s)/(3*a*s)) \text{Int}[1/(r - s*x), x], x] - \text{Simp}[r/(3*a*s) \text{Int}[(r*(B*r$

- 2\*A\*s) - s\*(B\*r + A\*s)\*x)/(r^2 + r\*s\*x + s^2\*x^2), x], x]] /; FreeQ  
 [{a, b, A, B}, x] && NeQ[a\*B^3 - b\*A^3, 0] && NegQ[a/b]

2401. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, Simp[-C^2/b Int[1/(B - C\*x), x], x] /; EqQ[B^2 - A\*C, 0] && EqQ[b\*B^3 + a\*C^3, 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2402. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = a^(1/3)/b^(1/3)}], Simp[C/b Int[1/(q + x), x], x] + Simp[(B + C\*q)/b Int[1/(q^2 - q\*x + x^2), x], x]] /; EqQ[A\*b^(2/3) - a^(1/3)\*b^(1/3)\*B - 2\*a^(2/3)\*C, 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2403. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = (-a)^(1/3)/(-b)^(1/3)}], Simp[C/b Int[1/(q + x), x], x] + Simp[(B + C\*q)/b Int[1/(q^2 - q\*x + x^2), x], x]] /; EqQ[A\*(-b)^(2/3) - (-a)^(1/3)\*(-b)^(1/3)\*B - 2\*(-a)^(2/3)\*C, 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2404. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = (-a)^(1/3)/b^(1/3)}], Simp[-C/b Int[1/(q - x), x], x] + Simp[(B - C\*q)/b Int[1/(q^2 + q\*x + x^2), x], x]] /; EqQ[A\*b^(2/3) + (-a)^(1/3)\*b^(1/3)\*B - 2\*(-a)^(2/3)\*C, 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2405. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = a^(1/3)/(-b)^(1/3)}], Simp[-C/b Int[1/(q - x), x], x] + Simp[(B - C\*q)/b Int[1/(q^2 + q\*x + x^2), x], x]] /; EqQ[A\*(-b)^(2/3) + a^(1/3)\*(-b)^(1/3)\*B - 2\*a^(2/3)\*C, 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2406. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = (a/b)^(1/3)}], Simp[C/b Int[1/(q + x), x], x] + Simp[(B + C\*q)/b Int[1/(q^2 - q\*x + x^2), x], x]] /; EqQ[A - (a/b)^(1/3)\*B - 2\*(a/b)^(2/3)\*C, 0]] /; Fr

eeQ[{a, b}, x] && PolyQ[P2, x, 2]

2407. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = Rt[a/b, 3]}, Simp[C/b Int[1/(q + x), x], x] + Simp[(B + C\*q)/b Int[1/(q^2 - q\*x + x^2), x], x]] /; EqQ[A - Rt[a/b, 3]\*B - 2\*Rt[a/b, 3]^2\*C, 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2408. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = (-a/b)^(1/3)}, Simp[-C/b Int[1/(q - x), x], x] + Simp[(B - C\*q)/b Int[1/(q^2 + q\*x + x^2), x], x]] /; EqQ[A + (-a/b)^(1/3)\*B - 2\*(-a/b)^(2/3)\*C, 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2409. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = Rt[-a/b, 3]}, Simp[-C/b Int[1/(q - x), x], x] + Simp[(B - C\*q)/b Int[1/(q^2 + q\*x + x^2), x], x]] /; EqQ[A + Rt[-a/b, 3]\*B - 2\*Rt[-a/b, 3]^2\*C, 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2410. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, Int[(A + B\*x)/(a + b\*x^3), x] + Simp[C Int[x^2/(a + b\*x^3), x], x] /; EqQ[a\*B^3 - b\*A^3, 0] || !RationalQ[a/b]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2411. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = (a/b)^(1/3)}, Simp[q^2/a Int[(A + C\*q\*x)/(q^2 - q\*x + x^2), x], x]] /; EqQ[A - B\*(a/b)^(1/3) + C\*(a/b)^(2/3), 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]

2412. Int[(P2\_)/((a\_) + (b\_.)\*(x\_)^3), x\_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2]}, With[{q = (-a/b)^(1/3)}, Simp[q/a Int[(A\*q + (A + B\*q)\*x)/(q^2 + q\*x + x^2), x], x]] /; EqQ[A + B\*(-a/b)^(1/3) + C\*(-a/b)^(2/3), 0]] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2]



2413. `Int[(P2_)/((a_) + (b_.)*(x_)^3), x_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2], q = (a/b)^(1/3)}, Simp[q*((A - B*q + C*q^2)/(3*a)) Int[1/(q + x), x], x] + Simp[q/(3*a) Int[(q*(2*A + B*q - C*q^2) - (A - B*q - 2*C*q^2)*x)/(q^2 - q*x + x^2), x], x] /; NeQ[a*B^3 - b*A^3, 0] && NeQ[A - B*q + C*q^2, 0] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2] && GtQ[a/b, 0]`
2414. `Int[(P2_)/((a_) + (b_.)*(x_)^3), x_Symbol] := With[{A = Coeff[P2, x, 0], B = Coeff[P2, x, 1], C = Coeff[P2, x, 2], q = (-a/b)^(1/3)}, Simp[q*((A + B*q + C*q^2)/(3*a)) Int[1/(q - x), x], x] + Simp[q/(3*a) Int[(q*(2*A - B*q - C*q^2) + (A + B*q - 2*C*q^2)*x)/(q^2 + q*x + x^2), x], x] /; NeQ[a*B^3 - b*A^3, 0] && NeQ[A + B*q + C*q^2, 0] /; FreeQ[{a, b}, x] && PolyQ[P2, x, 2] && LtQ[a/b, 0]`
2415. `Int[(Pq_)/((a_) + (b_.)*(x_)^(n_)), x_Symbol] := With[{v = Sum[x^ii*(Coeff[Pq, x, ii] + Coeff[Pq, x, n/2 + ii]*x^(n/2))/(a + b*x^n), {ii, 0, n/2 - 1}]}, Int[v, x] /; SumQ[v] /; FreeQ[{a, b}, x] && PolyQ[Pq, x] && IGtQ[n/2, 0] && Expon[Pq, x] < n`
2416. `Int[((c_) + (d_.)*(x_))/Sqrt[(a_) + (b_.)*(x_)^3], x_Symbol] := With[{r = Numer[Simplify[(1 - Sqrt[3])*(d/c)]], s = Denom[Simplify[(1 - Sqrt[3])*(d/c)]]}, Simp[2*d*s^3*(Sqrt[a + b*x^3]/(a*r^2*((1 + Sqrt[3])*s + r*x))), x] - Simp[3^(1/4)*Sqrt[2 - Sqrt[3]]*d*s*(s + r*x)*(Sqrt[(s^2 - r*s*x + r^2*x^2)/((1 + Sqrt[3])*s + r*x)^2]/(r^2*Sqrt[a + b*x^3]*Sqrt[s*((s + r*x)/((1 + Sqrt[3])*s + r*x)^2])))*EllipticE[ArcSin[((1 - Sqrt[3])*s + r*x)/((1 + Sqrt[3])*s + r*x)], -7 - 4*Sqrt[3]], x] /; FreeQ[{a, b, c, d}, x] && PosQ[a] && EqQ[b*c^3 - 2*(5 - 3*Sqrt[3])*a*d^3, 0]`
2417. `Int[((c_) + (d_.)*(x_))/Sqrt[(a_) + (b_.)*(x_)^3], x_Symbol] := With[{r = Numer[Rt[b/a, 3]], s = Denom[Rt[b/a, 3]]}, Simp[(c*r - (1 - Sqrt[3])*d*s)/r Int[1/Sqrt[a + b*x^3], x], x] + Simp[d/r Int[((1 - Sqrt[3])*s + r*x)/Sqrt[a + b*x^3], x], x] /; FreeQ[{a, b, c, d}, x] && PosQ[a] && NeQ[b*c^3 - 2*(5 - 3*Sqrt[3])*a*d^3, 0]`
2418. `Int[((c_) + (d_.)*(x_))/Sqrt[(a_) + (b_.)*(x_)^3], x_Symbol] := With[{r = Numer[Simplify[(1 + Sqrt[3])*(d/c)]], s = Denom[Simplify[(1 + Sqrt[3])*(d/c)]]}, Simp[(c*r - (1 + Sqrt[3])*d*s)/r Int[1/Sqrt[a + b*x^3], x], x] + Simp[d/r Int[((1 + Sqrt[3])*s + r*x)/Sqrt[a + b*x^3], x], x] /; FreeQ[{a, b, c, d}, x] && PosQ[a] && NeQ[b*c^3 - 2*(5 + 3*Sqrt[3])*a*d^3, 0]`

- ```
[3])*(d/c)]], Simp[2*d*s^3*(Sqrt[a + b*x^3]/(a*r^2*((1 - Sqrt[3])*s +
r*x))), x] + Simp[3^(1/4)*Sqrt[2 + Sqrt[3]]*d*s*(s + r*x)*(Sqrt[(s^2
- r*s*x + r^2*x^2)/((1 - Sqrt[3])*s + r*x)^2]/(r^2*Sqrt[a + b*x^3]*Sqr
t[(-s)*((s + r*x)/((1 - Sqrt[3])*s + r*x)^2)))*EllipticE[ArcSin[((1 +
Sqrt[3])*s + r*x)/((1 - Sqrt[3])*s + r*x)], -7 + 4*Sqrt[3]], x]] /; F
reeQ[{a, b, c, d}, x] && NegQ[a] && EqQ[b*c^3 - 2*(5 + 3*Sqrt[3])*a*d^
3, 0]
```
2419. $\text{Int}[\frac{(c_+ + (d_+)(x_+))}{\sqrt{(a_+ + (b_+)(x_+)^3}}, x_Symbol] := \text{With}[\{r = \text{Numer}[\text{Rt}[b/a, 3]], s = \text{Denom}[\text{Rt}[b/a, 3]]\}, \text{Simp}[(c*r - (1 + \text{Sqrt}[3]) * d*s)/r \text{Int}[1/\sqrt{a + b*x^3}, x], x] + \text{Simp}[d/r \text{Int}[\frac{(1 + \text{Sqrt}[3]) * s + r*x}{\sqrt{a + b*x^3}}, x], x]] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NegQ}[a] \&\& \text{NeQ}[b*c^3 - 2*(5 + 3*\text{Sqrt}[3])*a*d^3, 0]$
2420. $\text{Int}[\frac{(c_+ + (d_+)(x_+)^4)}{\sqrt{(a_+ + (b_+)(x_+)^6}}, x_Symbol] := \text{With}[\{r = \text{Numer}[\text{Rt}[b/a, 3]], s = \text{Denom}[\text{Rt}[b/a, 3]]\}, \text{Simp}[(1 + \text{Sqrt}[3]) * d*s^3*x*(\sqrt{a + b*x^6}/(2*a*r^2*(s + (1 + \text{Sqrt}[3])*r*x^2))), x] - \text{Simp}[3^(1/4)*d*s*x*(s + r*x^2)*(\sqrt{(s^2 - r*s*x^2 + r^2*x^4)/(s + (1 + \text{Sqrt}[3])*r*x^2)^2}/(2*r^2*\sqrt{(r*x^2*(s + r*x^2))/(s + (1 + \text{Sqrt}[3])*r*x^2)^2}*\sqrt{a + b*x^6})) * \text{EllipticE}[\text{ArcCos}[(s + (1 - \text{Sqrt}[3])*r*x^2)/(s + (1 + \text{Sqrt}[3])*r*x^2)], (2 + \text{Sqrt}[3])/4], x]] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[2*\text{Rt}[b/a, 3]^2*c - (1 - \text{Sqrt}[3])*d, 0]$
2421. $\text{Int}[\frac{(c_+ + (d_+)(x_+)^4)}{\sqrt{(a_+ + (b_+)(x_+)^6}}, x_Symbol] := \text{With}[\{q = \text{Rt}[b/a, 3]\}, \text{Simp}[(2*c*q^2 - (1 - \text{Sqrt}[3])*d)/(2*q^2) \text{Int}[1/\sqrt{a + b*x^6}, x], x] + \text{Simp}[d/(2*q^2) \text{Int}[(1 - \text{Sqrt}[3] + 2*q^2*x^4)/\sqrt{a + b*x^6}, x], x]] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[2*\text{Rt}[b/a, 3]^2*c - (1 - \text{Sqrt}[3])*d, 0]$
2422. $\text{Int}[\frac{(c_+ + (d_+)(x_+)^2)}{\sqrt{(a_+ + (b_+)(x_+)^8}}, x_Symbol] := \text{Simp}[\frac{(-c)*d*x^3*\sqrt{-(c - d*x^2)^2/(c*d*x^2)}}{(\sqrt{2 + \text{Sqrt}[2]}*(c - d*x^2)*\sqrt{a + b*x^8})} * \text{EllipticF}[\text{ArcSin}[(1/2)*\sqrt{(\sqrt{2}*c^2 + 2*c*d*x^2 + \sqrt{2}*d^2*x^4)/(c*d*x^2)}], -2*(1 - \text{Sqrt}[2])], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b*c^4 - a*d^4, 0]$

2423. $\text{Int}[\frac{(c) + (d) \cdot (x)^2}{\sqrt{(a) + (b) \cdot (x)^8}}, x_Symbol] \rightarrow \text{Simp}[\frac{(d + \text{Rt}[b/a, 4] \cdot c)}{(2 \cdot \text{Rt}[b/a, 4])} \text{Int}[\frac{(1 + \text{Rt}[b/a, 4] \cdot x^2)}{\sqrt{a + b \cdot x^8}}, x], x] - \text{Simp}[\frac{(d - \text{Rt}[b/a, 4] \cdot c)}{(2 \cdot \text{Rt}[b/a, 4])} \text{Int}[\frac{(1 - \text{Rt}[b/a, 4] \cdot x^2)}{\sqrt{a + b \cdot x^8}}, x], x] /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{NeQ}[b \cdot c^4 - a \cdot d^4, 0]$
2424. $\text{Int}[(Pq) \cdot ((a) + (b) \cdot (x)^{n})^p, x_Symbol] \rightarrow \text{Module}\{q = \text{Expon}[Pq, x], j, k\}, \text{Int}[\text{Sum}[x^j \cdot \text{Sum}[\text{Coeff}[Pq, x, j + k \cdot (n/2)] \cdot x^{k \cdot (n/2)}], \{k, 0, 2 \cdot ((q - j)/n) + 1\}] \cdot (a + b \cdot x^n)^p, \{j, 0, n/2 - 1\}], x] /; \text{FreeQ}\{a, b, p\}, x \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{IGtQ}[n/2, 0] \ \&\& \ \text{!PolyQ}[Pq, x^{(n/2)}]$
2425. $\text{Int}[(Pq) \cdot ((a) + (b) \cdot (x)^{n})^p, x_Symbol] \rightarrow \text{Simp}[\text{Coeff}[Pq, x, n - 1] \text{Int}[x^{(n - 1)} \cdot (a + b \cdot x^n)^p, x], x] + \text{Int}[\text{ExpandToSum}[Pq - \text{Coeff}[Pq, x, n - 1] \cdot x^{(n - 1)}, x] \cdot (a + b \cdot x^n)^p, x] /; \text{FreeQ}\{a, b, p\}, x \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{Expon}[Pq, x] == n - 1$
2426. $\text{Int}[(Pq) / ((a) + (b) \cdot (x)^{n}), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Pq / (a + b \cdot x^n), x], x] /; \text{FreeQ}\{a, b\}, x \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{IntegerQ}[n]$
2427. $\text{Int}[(Pq) \cdot ((a) + (b) \cdot (x)^{n})^p, x_Symbol] \rightarrow \text{With}\{q = \text{Expon}[Pq, x]\}, \text{With}\{Pqq = \text{Coeff}[Pq, x, q]\}, \text{Simp}[Pqq \cdot x^{(q - n + 1)} \cdot ((a + b \cdot x^n)^{(p + 1)} / (b \cdot (q + n \cdot p + 1))), x] + \text{Simp}[1 / (b \cdot (q + n \cdot p + 1)) \text{Int}[\text{ExpandToSum}[b \cdot (q + n \cdot p + 1) \cdot (Pq - Pqq \cdot x^q) - a \cdot Pqq \cdot (q - n + 1) \cdot x^{(q - n)}], x] \cdot (a + b \cdot x^n)^p, x], x] /; \text{NeQ}[q + n \cdot p + 1, 0] \ \&\& \ q - n \geq 0 \ \&\& \ (\text{IntegerQ}[2 \cdot p] \ || \ \text{IntegerQ}[p + (q + 1) / (2 \cdot n)]) /; \text{FreeQ}\{a, b, p\}, x \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{IGtQ}[n, 0]$
2428. $\text{Int}[(Pq) \cdot ((a) + (b) \cdot (x)^{n})^p, x_Symbol] \rightarrow \text{With}\{q = \text{Expon}[Pq, x]\}, -\text{Subst}[\text{Int}[\text{ExpandToSum}[x^q \cdot (Pq / . x \rightarrow x^{-1})], x] \cdot ((a + b/x^n)^p / x^{(q + 2)}), x], x, 1/x] /; \text{FreeQ}\{a, b, p\}, x \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{ILtQ}[n, 0]$
2429. $\text{Int}[(Pq) \cdot ((a) + (b) \cdot (x)^{n})^p, x_Symbol] \rightarrow \text{With}\{g = \text{Denominator}[n]\}, \text{Simp}[g \text{Subst}[\text{Int}[x^{(g - 1)} \cdot (Pq / . x \rightarrow x^g) \cdot (a + b \cdot x^{(g \cdot n)})^p, x], x, x^{(1/g)}], x] /; \text{FreeQ}\{a, b, p\}, x \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{F}$

ractionQ[n]

2430. $\text{Int}[(A_ + (B_)*(x_)^{(m_)})*((a_ + (b_)*(x_)^{(n_)})^{(p_)}), x_Symbol]$
 $]:> \text{Simp}[A \text{ Int}[(a + b*x^n)^p, x], x] + \text{Simp}[B \text{ Int}[x^m*(a + b*x^n)^p, x], x] /;$
 $\text{FreeQ}\{a, b, A, B, m, n, p\}, x\} \&\& \text{EqQ}[m - n + 1, 0]$
2431. $\text{Int}[(P3_)*((a_ + (b_)*(x_)^{(n_)})^{(p_)}), x_Symbol]$
 $]:> \text{With}\{A = \text{Coeff}[P3, x^{(n/2)}, 0], B = \text{Coeff}[P3, x^{(n/2)}, 1], C = \text{Coeff}[P3, x^{(n/2)}, 2],$
 $D = \text{Coeff}[P3, x^{(n/2)}, 3]\}, \text{Simp}[-(x*(b*A - a*C + (b*B - a*D)*x^{(n/2)})$
 $)*(a + b*x^n)^{(p + 1)})/(a*b*n*(p + 1)), x] - \text{Simp}[1/(2*a*b*n*(p + 1))$
 $\text{Int}[(a + b*x^n)^{(p + 1)}*\text{Simp}[2*a*C - 2*b*A*(n*(p + 1) + 1) + (a*D*(n$
 $+ 2) - b*B*(n*(2*p + 3) + 2))*x^{(n/2)}, x], x]] /;$
 $\text{FreeQ}\{a, b, n\}, x\} \&\& \text{PolyQ}[P3, x^{(n/2)}, 3] \&\& \text{ILtQ}[p, -1]$
2432. $\text{Int}[(Pq_)*((a_ + (b_)*(x_)^{(n_)})^{(p_)}), x_Symbol]$
 $]:> \text{Int}[\text{ExpandIntegrand}[Pq*(a + b*x^n)^p, x], x] /;$
 $\text{FreeQ}\{a, b, n, p\}, x\} \&\& (\text{PolyQ}[Pq, x] \parallel \text{PolyQ}[Pq, x^n])$
2433. $\text{Int}[(Pq_)*((a_ + (b_)*(v_)^{(n_)}))^{(p_)}), x_Symbol]$
 $]:> \text{Simp}[1/\text{Coeff}[v, x, 1] \text{ Subst}[\text{Int}[\text{SubstFor}[v, Pq, x]*(a + b*x^n)^p, x], x, v], x] /;$
 $\text{FreeQ}\{a, b, n, p\}, x\} \&\& \text{LinearQ}[v, x] \&\& \text{PolyQ}[Pq, v^n]$
2434. $\text{Int}[(Pq_)*((a1_ + (b1_)*(x_)^{(n_)}))^{(p_)}*((a2_ + (b2_)*(x_)^{(n_)}))^{(p_)}), x_Symbol]$
 $]:> \text{Int}[Pq*(a1*a2 + b1*b2*x^{(2*n)})^p, x] /;$
 $\text{FreeQ}\{a1, b1, a2, b2, n, p\}, x\} \&\& \text{PolyQ}[Pq, x] \&\& \text{EqQ}[a2*b1 + a1*b2, 0] \&\& (\text{IntegerQ}[p] \parallel (\text{GtQ}[a1, 0] \&\& \text{GtQ}[a2, 0]))$
2435. $\text{Int}[(Pq_)*((a1_ + (b1_)*(x_)^{(n_)}))^{(p_)}*((a2_ + (b2_)*(x_)^{(n_)}))^{(p_)}), x_Symbol]$
 $]:> \text{Simp}[(a1 + b1*x^n)^{\text{FracPart}[p]}*((a2 + b2*x^n)^{\text{FracPart}[p]})$
 $\text{acPart}[p]/(a1*a2 + b1*b2*x^{(2*n)})^{\text{FracPart}[p]} \text{ Int}[Pq*(a1*a2 + b1*b2$
 $*x^{(2*n)})^p, x], x] /;$
 $\text{FreeQ}\{a1, b1, a2, b2, n, p\}, x\} \&\& \text{PolyQ}[Pq, x] \&\& \text{EqQ}[a2*b1 + a1*b2, 0] \&\& !(\text{EqQ}[n, 1] \&\& \text{LinearQ}[Pq, x])$
2436. $\text{Int}[(a_ + (b_)*(x_)^{(n_)}))^{(p_)}*((c_ + (d_)*(x_)^{(n_)}))^{(p_)}*((e_ + (f_)*(x_)^{(n_)} + (g_)*(x_)^{(n2_)}), x_Symbol]$
 $]:> \text{Simp}[e*x*(a + b*x^n)^{(p + 1)}*((c + d*x^n)^{(p + 1)})/(a*c), x] /;$
 $\text{FreeQ}\{a, b, c, d,$

- $e, f, g, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[a*c*f - e*(b*c + a*d)*(n*(p + 1) + 1), 0] \&\& \text{EqQ}[a*c*g - b*d*e*(2*n*(p + 1) + 1), 0]$
2437. $\text{Int}[(a_ + (b_)*(x_)^{(n_}))^{(p_)}*((c_ + (d_)*(x_)^{(n_}))^{(p_)}*((e_ + (g_)*(x_)^{(n2_)}), x_Symbol] \rightarrow \text{Simp}[e*x*(a + b*x^n)^{(p + 1)}*((c + d*x^n)^{(p + 1)}/(a*c)), x] /; \text{FreeQ}\{a, b, c, d, e, g, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[n*(p + 1) + 1, 0] \&\& \text{EqQ}[a*c*g - b*d*e*(2*n*(p + 1) + 1), 0]$
2438. $\text{Int}[(A_ + (B_)*(x_)^{(m_)})*((a_ + (b_)*(x_)^{(n_}))^{(p_)}*((c_ + (d_)*(x_)^{(n_}))^{(q_)}), x_Symbol] \rightarrow \text{Simp}[A \text{ Int}[(a + b*x^n)^p*(c + d*x^n)^q, x], x] + \text{Simp}[B \text{ Int}[x^m*(a + b*x^n)^p*(c + d*x^n)^q, x], x] /; \text{FreeQ}\{a, b, c, d, A, B, m, n, p, q\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[m - n + 1, 0]$
2439. $\text{Int}[(Px_)^{(q_)}*((a_ + (b_)*((c_ + (d_)*(x_)^{(n_}))^{(p_)}), x_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[n]\}, \text{Simp}[k/d \text{ Subst}[\text{Int}[\text{SimplifyIntegrand}[x^{(k - 1)}*(Px / . x \rightarrow x^k/d - c/d)^q*(a + b*x^{(k*n)})^p, x], x], x, (c + d*x)^{(1/k)}], x]] /; \text{FreeQ}\{a, b, c, d, p\}, x] \&\& \text{PolynomialQ}[Px, x] \&\& \text{IntegerQ}[q] \&\& \text{FractionQ}[n]$
2440. $\text{Int}[(Pq_)*((a_)*(x_)^{(j_)} + (b_)*(x_)^{(n_}))^{(p_)}], x_Symbol] \rightarrow \text{With}\{d = \text{Denominator}[n]\}, \text{Simp}[d \text{ Subst}[\text{Int}[x^{(d - 1)}*(\text{SubstFor}[x^n, Pq, x] / . x \rightarrow x^{(d*n)})*(a*x^{(d*j)} + b*x^{(d*n)})^p, x], x, x^{(1/d)}], x]] /; \text{FreeQ}\{a, b, j, n, p\}, x] \&\& \text{PolyQ}[Pq, x^n] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{RationalQ}[j, n] \&\& \text{IntegerQ}[j/n] \&\& \text{LtQ}[-1, n, 1]$
2441. $\text{Int}[(Pq_)*(x_)^{(m_)}*((a_)*(x_)^{(j_)} + (b_)*(x_)^{(n_}))^{(p_)}], x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n] - 1)*\text{SubstFor}[x^n, Pq, x]*(a*x^{\text{Simplify}[j/n]} + b*x)^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, j, m, n, p\}, x] \&\& \text{PolyQ}[Pq, x^n] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[n, j] \&\& \text{IntegerQ}[\text{Simplify}[j/n]] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
2442. $\text{Int}[(Pq_)*((c_)*(x_)^{(m_)}*((a_)*(x_)^{(j_)} + (b_)*(x_)^{(n_}))^{(p_)}], x_Symbol] \rightarrow \text{Simp}[c^{(\text{Sign}[m]*\text{Quotient}[m, \text{Sign}[m]])}*((c*x)^{\text{Mod}[m, \text{Sign}[m]]}/x^{\text{Mod}[m, \text{Sign}[m]]}) \text{ Int}[x^m*Pq*(a*x^j + b*x^n)^p, x], x] /; \text{FreeQ}\{a, b, c, j, n, p\}, x] \&\& \text{PolyQ}[Pq, x^n] \&\& !\text{IntegerQ}[p] \&\& \text{NeQ}[n,$

- j && IntegerQ[Simplify[j/n]] && IntegerQ[Simplify[(m + 1)/n]] && RationalQ[m] && GtQ[m^2, 1]
2443. Int[(Pq_)*((c_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> Simp[(c*x)^m/x^m Int[x^m*Pq*(a*x^j + b*x^n)^p, x], x] /; FreeQ[{a, b, c, j, m, n, p}, x] && PolyQ[Pq, x^n] && !IntegerQ[p] && NeQ[n, j] && IntegerQ[Simplify[j/n]] && IntegerQ[Simplify[(m + 1)/n]]
2444. Int[(Pq_)*(x_)^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> With[{g = GCD[m + 1, n]}, Simp[1/g Subst[Int[x^((m + 1)/g - 1)*(Pq /. x -> x^(1/g))*(a*x^(j/g) + b*x^(n/g))^p, x], x, x^g], x] /; NeQ[g, 1] /; FreeQ[{a, b, p}, x] && PolyQ[Pq, x^n] && !IntegerQ[p] && IGtQ[j, 0] && IGtQ[n, 0] && IGtQ[j/n, 0] && IntegerQ[m]
2445. Int[(Pq_)*((c_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> With[{q = Expon[Pq, x]}, With[{Pqq = Coeff[Pq, x, q]}, Int[(c*x)^m*ExpandToSum[Pq - Pqq*x^q - a*Pqq*(m + q - n + 1)*(x^(q - n))/(b*(m + q + n*p + 1))], x]*(a*x^j + b*x^n)^p, x] + Simp[Pqq*(c*x)^(m + q - n + 1)*((a*x^j + b*x^n)^(p + 1)/(b*c^(q - n + 1)*(m + q + n*p + 1))], x] /; GtQ[q, n - 1] && NeQ[m + q + n*p + 1, 0] && (IntegerQ[2*p] || IntegerQ[p + (q + 1)/(2*n)]) /; FreeQ[{a, b, c, m, p}, x] && PolyQ[Pq, x] && !IntegerQ[p] && IGtQ[j, 0] && IGtQ[n, 0] && LtQ[j, n]
2446. Int[(Pq_)*(x_)^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> Simp[1/(m + 1) Subst[Int[(SubstFor[x^n, Pq, x] /. x -> x^Simplify[n/(m + 1)])*(a*x^Simplify[j/(m + 1)] + b*x^Simplify[n/(m + 1)])^p, x], x, x^(m + 1)], x] /; FreeQ[{a, b, j, m, n, p}, x] && PolyQ[Pq, x^n] && !IntegerQ[p] && NeQ[n, j] && IntegerQ[Simplify[j/n]] && IntegerQ[Simplify[n/(m + 1)]] && !IntegerQ[n]
2447. Int[(Pq_)*((c_)*(x_))^(m_)*((a_)*(x_)^(j_) + (b_)*(x_)^(n_))^(p_), x_Symbol] :> Simp[c^(Sign[m]*Quotient[m, Sign[m]])*((c*x)^Mod[m, Sign[m]]/x^Mod[m, Sign[m]]) Int[x^m*Pq*(a*x^j + b*x^n)^p, x], x] /; FreeQ[{a, b, c, j, n, p}, x] && PolyQ[Pq, x^n] && !IntegerQ[p] && NeQ[n, j] && IntegerQ[Simplify[j/n]] && IntegerQ[Simplify[n/(m + 1)]] && !IntegerQ[n] && GtQ[m^2, 1]

2448. $\text{Int}[(Pq) * ((c) * (x))^{(m)} * ((a) * (x)^{(j)} + (b) * (x)^{(n)})^{(p)}, x_Symbol] \rightarrow \text{Simp}[(c*x)^m / x^m \text{ Int}[x^m * Pq * (a*x^j + b*x^n)^p, x], x] / ; \text{FreeQ}[\{a, b, c, j, m, n, p\}, x] \ \&\& \ \text{PolyQ}[Pq, x^n] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[n, j] \ \&\& \ \text{IntegerQ}[\text{Simplify}[j/n]] \ \&\& \ \text{IntegerQ}[\text{Simplify}[n/(m + 1)]] \ \&\& \ !\text{IntegerQ}[n]$
2449. $\text{Int}[(Pq) * ((c) * (x))^{(m)} * ((a) * (x)^{(j)} + (b) * (x)^{(n)})^{(p)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(c*x)^m * Pq * (a*x^j + b*x^n)^p, x], x] / ; \text{FreeQ}[\{a, b, c, j, m, n, p\}, x] \ \&\& \ (\text{PolyQ}[Pq, x] \ || \ \text{PolyQ}[Pq, x^n]) \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[n, j]$
2450. $\text{Int}[(Pq) * ((a) * (x)^{(j)} + (b) * (x)^{(n)})^{(p)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Pq * (a*x^j + b*x^n)^p, x], x] / ; \text{FreeQ}[\{a, b, j, n, p\}, x] \ \&\& \ (\text{PolyQ}[Pq, x] \ || \ \text{PolyQ}[Pq, x^n]) \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{NeQ}[n, j]$
2451. $\text{Int}[(Pq) * (u)^{(p)} * ((c) * (x))^{(m)}, x_Symbol] \rightarrow \text{Int}[(c*x)^m * Pq * \text{ExpandToSum}[u, x]^p, x] / ; \text{FreeQ}[\{c, m, p\}, x] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{BinomialQ}[u, x] \ \&\& \ !\text{BinomialMatchQ}[u, x]$
2452. $\text{Int}[(Pq) * (u)^{(p)}, x_Symbol] \rightarrow \text{Int}[Pq * \text{ExpandToSum}[u, x]^p, x] / ; \text{FreeQ}[p, x] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{QuadraticQ}[u, x] \ \&\& \ !\text{QuadraticMatchQ}[u, x]$
2453. $\text{Int}[(Pq) * (u)^{(m)} * (v)^{(p)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m * Pq * \text{ExpandToSum}[v, x]^p, x] / ; \text{FreeQ}[\{m, p\}, x] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{LinearQ}[u, x] \ \&\& \ \text{QuadraticQ}[v, x] \ \&\& \ !(\text{LinearMatchQ}[u, x] \ \&\& \ \text{QuadraticMatchQ}[v, x])$
2454. $\text{Int}[(Pq) * (u)^{(p)}, x_Symbol] \rightarrow \text{Int}[Pq * \text{ExpandToSum}[u, x]^p, x] / ; \text{FreeQ}[p, x] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{TrinomialQ}[u, x] \ \&\& \ !\text{TrinomialMatchQ}[u, x]$
2455. $\text{Int}[(Pq) * (u)^{(p)} * ((d) * (x))^{(m)}, x_Symbol] \rightarrow \text{Int}[(d*x)^m * Pq * \text{ExpandToSum}[u, x]^p, x] / ; \text{FreeQ}[\{d, m, p\}, x] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{Trino}$

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mialQ[u, x] && !TrinomialMatchQ[u, x]

2456. Int[(u_.)*(Px_)^(p_)*(Qx_)^(q_), x_Symbol] := Module[{Rx = PolyGCD[Px,
 Qx, x]}, Int[u*Rx^(p + q)*PolynomialQuotient[Px, Rx, x]^p*PolynomialQ
 uotient[Qx, Rx, x]^q, x] /; NeQ[Rx, 1]] /; IGtQ[p, 0] && ILtQ[q, 0] &&
 PolyQ[Px, x] && PolyQ[Qx, x]

2457. Int[(u_.)*(Px_)*(Qx_)^(q_), x_Symbol] := Module[{Rx = PolyGCD[Px, Qx,
 x]}, Int[u*Rx^(q + 1)*PolynomialQuotient[Px, Rx, x]*PolynomialQuotient
 [Qx, Rx, x]^q, x] /; NeQ[Rx, 1]] /; ILtQ[q, 0] && PolyQ[Px, x] && Poly
 Q[Qx, x]

2458. Int[(Pn_)^(p_.), x_Symbol] := With[{S = Coeff[Pn, x, Expon[Pn, x] - 1]
 / (Expon[Pn, x]*Coeff[Pn, x, Expon[Pn, x]])}, Subst[Int[ExpandToSum[Pn
 /. x -> x - S, x]^p, x], x, x + S] /; BinomialQ[Pn /. x -> x - S, x] |
 | (IntegerQ[Expon[Pn, x]/2] && TrinomialQ[Pn /. x -> x - S, x])] /; Fr
 eeQ[p, x] && PolyQ[Pn, x] && GtQ[Expon[Pn, x], 2] && NeQ[Coeff[Pn, x,
 Expon[Pn, x] - 1], 0]

2459. Int[(Pn_)^(p_.)*(Qx_), x_Symbol] := With[{S = Coeff[Pn, x, Expon[Pn, x]
] - 1 / (Expon[Pn, x]*Coeff[Pn, x, Expon[Pn, x]])}, Subst[Int[ExpandToS
 um[Pn /. x -> x - S, x]^p*ExpandToSum[Qx /. x -> x - S, x], x], x, x +
 S] /; BinomialQ[Pn /. x -> x - S, x] || (IntegerQ[Expon[Pn, x]/2] &&
 TrinomialQ[Pn /. x -> x - S, x])] /; FreeQ[p, x] && PolyQ[Pn, x] && Gt
 Q[Expon[Pn, x], 2] && NeQ[Coeff[Pn, x, Expon[Pn, x] - 1], 0] && PolyQ[
 Qx, x] && !(MonomialQ[Qx, x] && IGtQ[p, 0])

2460. Int[(u_.)*(Px_)^(p_), x_Symbol] := With[{Qx = Factor[Px /. x -> Sqrt[x
]]}], Int[ExpandIntegrand[u*(Qx /. x -> x^2)^p, x], x] /; !SumQ[Nonfre
 eFactors[Qx, x]] /; PolyQ[Px, x^2] && GtQ[Expon[Px, x], 2] && !Binom
 ialQ[Px, x] && !TrinomialQ[Px, x] && ILtQ[p, 0] && RationalFunctionQ[
 u, x]

2461. Int[(u_.)*(Px_)^(p_), x_Symbol] := With[{Qx = Factor[Px /. x -> Sqrt[x
]]}], Int[ExpandIntegrand[u, (Qx /. x -> x^2)^p, x], x] /; !SumQ[Nonfr
 eeFactors[Qx, x]] /; PolyQ[Px, x^2] && GtQ[Expon[Px, x], 2] && !Bino

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mialQ[Px, x] && !TrinomialQ[Px, x] && ILtQ[p, 0]

2462. Int[(u_.)*(Px_)^(p_), x_Symbol] := With[{Qx = Factor[Px]}, Int[ExpandI
ntegrand[u*Qx^p, x], x] /; !SumQ[NonfreeFactors[Qx, x]] /; PolyQ[Px,
x] && GtQ[Expon[Px, x], 2] && !BinomialQ[Px, x] && !TrinomialQ[Px,
x] && ILtQ[p, 0] && RationalFunctionQ[u, x]

2463. Int[(u_.)*(Px_)^(p_), x_Symbol] := With[{Qx = Factor[Px]}, Int[ExpandI
ntegrand[u, Qx^p, x], x] /; !SumQ[NonfreeFactors[Qx, x]] /; PolyQ[Px
, x] && GtQ[Expon[Px, x], 2] && !BinomialQ[Px, x] && !TrinomialQ[Px,
x] && ILtQ[p, 0]

2464. Int[(u_.)*(Px_)^(p_), x_Symbol] := With[{Qx = Factor[Px]}, Int[u*Qx^p,
x] /; !SumQ[NonfreeFactors[Qx, x]] /; PolyQ[Px, x] && GtQ[Expon[Px,
x], 2] && !BinomialQ[Px, x] && !TrinomialQ[Px, x] && IGtQ[p, 1]

2465. Int[(u_.)*(Px_)^(p_), x_Symbol] := Int[ExpandToSum[u, Px^p, x], x] /;
PolyQ[Px, x] && GtQ[Expon[Px, x], 2] && !BinomialQ[Px, x] && !Trinom
ialQ[Px, x] && IGtQ[p, 0]

2466. Int[(u_.)*(Q6_)^(p_), x_Symbol] := With[{a = Coeff[Q6, x, 0], b = Coef
f[Q6, x, 2], c = Coeff[Q6, x, 3], d = Coeff[Q6, x, 4], e = Coeff[Q6, x
, 6]}, Simp[1/(3^(3*p))*a^(2*p)) Int[ExpandIntegrand[u*(3*a + 3*Rt[a,
3]^2*Rt[c, 3]*x + b*x^2)^p*(3*a - 3*(-1)^(1/3)*Rt[a, 3]^2*Rt[c, 3]*x
+ b*x^2)^p*(3*a + 3*(-1)^(2/3)*Rt[a, 3]^2*Rt[c, 3]*x + b*x^2)^p, x], x
] /; EqQ[b^2 - 3*a*d, 0] && EqQ[b^3 - 27*a^2*e, 0] /; ILtQ[p, 0]
&& PolyQ[Q6, x, 6] && EqQ[Coeff[Q6, x, 1], 0] && EqQ[Coeff[Q6, x, 5],
0] && RationalFunctionQ[u, x]

2467. Int[(Fx_.)*(Px_)^(p_), x_Symbol] := With[{r = Expon[Px, x, Min]}, Simp
[Px^FracPart[p]/(x^(r*FracPart[p]))*ExpandToSum[Px/x^r, x]^FracPart[p]]
Int[x^(p*r)*ExpandToSum[Px/x^r, x]^p*Fx, x], x] /; IGtQ[r, 0] /; F
reeQ[p, x] && PolyQ[Px, x] && !IntegerQ[p] && !MonomialQ[Px, x] &&
!PolyQ[Fx, x]

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2468. $\text{Int}[(F x_{.}) * ((a_{.}) * (x_{.})^{(r_{.})} + (b_{.}) * (x_{.})^{(s_{.})})^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(a * x^r + b * x^s)^p / (x^{(p*r)} * (a + b * x^{(s-r)})^p) \text{Int}[x^{(p*r)} * (a + b * x^{(s-r)})^p * F x, x], x] /; \text{FreeQ}[\{a, b, p, r, s\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{PosQ}[s - r] \&\& \text{!(EqQ}[p, 1] \&\& \text{EqQ}[F x, 1])$
2469. $\text{Int}[(F x_{.}) * ((a_{.}) * (x_{.})^{(r_{.})} + (b_{.}) * (x_{.})^{(s_{.})} + (c_{.}) * (x_{.})^{(t_{.})})^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(a * x^r + b * x^s + c * x^t)^p / (x^{(p*r)} * (a + b * x^{(s-r)} + c * x^{(t-r)})^p) \text{Int}[x^{(p*r)} * (a + b * x^{(s-r)} + c * x^{(t-r)})^p * F x, x], x] /; \text{FreeQ}[\{a, b, c, p, r, s, t\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{PosQ}[s - r] \&\& \text{PosQ}[t - r] \&\& \text{!(EqQ}[p, 1] \&\& \text{EqQ}[F x, 1])$
2470. $\text{Int}[(F x_{.}) * ((d_{.}) * (x_{.})^{(q_{.})} + (a_{.}) * (x_{.})^{(r_{.})} + (b_{.}) * (x_{.})^{(s_{.})} + (c_{.}) * (x_{.})^{(t_{.})})^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(a * x^r + b * x^s + c * x^t + d * x^q)^p / (x^{(p*r)} * (a + b * x^{(s-r)} + c * x^{(t-r)} + d * x^{(q-r)})^p) \text{Int}[x^{(p*r)} * (a + b * x^{(s-r)} + c * x^{(t-r)} + d * x^{(q-r)})^p * F x, x], x] /; \text{FreeQ}[\{a, b, c, d, p, r, s, t, q\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{PosQ}[s - r] \&\& \text{PosQ}[t - r] \&\& \text{PosQ}[q - r] \&\& \text{!(EqQ}[p, 1] \&\& \text{EqQ}[F x, 1])$
2471. $\text{Int}[(u_{.}) * (P x_{.})^{(p_{.})}, x_Symbol] \rightarrow \text{With}[\{b = \text{Coeff}[P x, x, 1], c = \text{Coeff}[P x, x, 2], d = \text{Coeff}[P x, x, 3]\}, \text{Simp}[P x^{\text{FracPart}[p]} / (x^{\text{FracPart}[p]} * (b + c * x + d * x^2)^{\text{FracPart}[p]}) \text{Int}[u * x^p * (b + c * x + d * x^2)^p, x], x] /; \text{FreeQ}[p, x] \&\& \text{PolyQ}[P x, x, 3] \&\& \text{EqQ}[\text{Coeff}[P x, x, 0], 0] \&\& \text{!IntegerQ}[p]$
2472. $\text{Int}[(a_{.}) + (b_{.}) * (x_{.}) + (d_{.}) * (x_{.})^3)^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[1 / (3^{(3*p)} * a^{(2*p)}) \text{Int}[(3*a - b*x)^p * (3*a + 2*b*x)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, d\}, x] \&\& \text{EqQ}[4*b^3 + 27*a^2*d, 0] \&\& \text{IntegerQ}[p]$
2473. $\text{Int}[(a_{.}) + (b_{.}) * (x_{.}) + (d_{.}) * (x_{.})^3)^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(a + b * x + d * x^3)^p / ((3*a - b*x)^p * (3*a + 2*b*x)^{(2*p)}) \text{Int}[(3*a - b*x)^p * (3*a + 2*b*x)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, d, p\}, x] \&\& \text{EqQ}[4*b^3 + 27*a^2*d, 0] \&\& \text{!IntegerQ}[p]$
2474. $\text{Int}[(a_{.}) + (b_{.}) * (x_{.}) + (d_{.}) * (x_{.})^3)^{(p_{.})}, x_Symbol] \rightarrow \text{With}[\{r = \text{Rt}[-9*a*d^2 + \text{Sqrt}[3] * d * \text{Sqrt}[4*b^3*d + 27*a^2*d^2], 3]\}, \text{Simp}[1/d^{(2*p)} \text{Int}[\text{Simp}[18^{(1/3)} * b * (d/(3*r)) - r/18^{(1/3)} + d*x, x]^p * \text{Simp}[b * (d/3 + 12^{(1/3)} * b^2 * (d^2/(3*r^2)) + r^2/(3*12^{(1/3)}) - d * (2^{(1/3)} * b * (d/(3$

- $(\frac{1}{3}r)) - r/18^{(1/3)}x + d^2x^2, x]^p, x], x]] /; \text{FreeQ}\{a, b, d\}, x] \&\& \text{NeQ}[4b^3 + 27a^2d, 0] \&\& \text{IntegerQ}[p]$
2475. $\text{Int}[(a_.) + (b_.)(x_.) + (d_.)(x_.)^3]^{(p_.)}, x_Symbol] \text{:>} \text{With}\{r = \text{Rt}[-9a*d^2 + \text{Sqrt}[3]*d*\text{Sqrt}[4b^3*d + 27a^2*d^2], 3]\}, \text{Simp}[(a + b*x + d*x^3)^p / (\text{Simp}[18^{(1/3)}*b*(d/(3*r)) - r/18^{(1/3)} + d*x, x]^p * \text{Simp}[b*(d/3) + 12^{(1/3)}*b^2*(d^2/(3*r^2)) + r^2/(3*12^{(1/3)}) - d*(2^{(1/3)}*b*(d/(3^{(1/3)}*r)) - r/18^{(1/3)}) * x + d^2*x^2, x]^p) \text{Int}[\text{Simp}[18^{(1/3)}*b*(d/(3*r)) - r/18^{(1/3)} + d*x, x]^p * \text{Simp}[b*(d/3) + 12^{(1/3)}*b^2*(d^2/(3*r^2)) + r^2/(3*12^{(1/3)}) - d*(2^{(1/3)}*b*(d/(3^{(1/3)}*r)) - r/18^{(1/3)}) * x + d^2*x^2, x]^p, x], x]] /; \text{FreeQ}\{a, b, d, p\}, x] \&\& \text{NeQ}[4b^3 + 27a^2d, 0] \&\& !\text{IntegerQ}[p]$
2476. $\text{Int}[(Px_)^{(p_.)}, x_Symbol] \text{:>} \text{With}\{a = \text{Coeff}[Px, x, 0], b = \text{Coeff}[Px, x, 1], c = \text{Coeff}[Px, x, 2], d = \text{Coeff}[Px, x, 3]\}, \text{Simp}[1/d^p \text{Int}[(c + d*x)^p * (b + d*x^2)^p, x], x] /; \text{EqQ}[b*c - a*d, 0] /; \text{PolyQ}[Px, x, 3] \&\& \text{IntegerQ}[p]$
2477. $\text{Int}[(Px_)^{(p_.)}, x_Symbol] \text{:>} \text{With}\{a = \text{Coeff}[Px, x, 0], b = \text{Coeff}[Px, x, 1], c = \text{Coeff}[Px, x, 2], d = \text{Coeff}[Px, x, 3]\}, \text{Simp}[Px^p / ((c + d*x)^p * (b + d*x^2)^p) \text{Int}[(c + d*x)^p * (b + d*x^2)^p, x], x] /; \text{EqQ}[b*c - a*d, 0] /; \text{FreeQ}[p, x] \&\& \text{PolyQ}[Px, x, 3] \&\& !\text{IntegerQ}[p]$
2478. $\text{Int}[(Px_)^{(p_.)}, x_Symbol] \text{:>} \text{With}\{a = \text{Coeff}[Px, x, 0], b = \text{Coeff}[Px, x, 1], c = \text{Coeff}[Px, x, 2], d = \text{Coeff}[Px, x, 3]\}, \text{Subst}[\text{Int}[\text{Simp}[a - b^2/(3*c) + d*x^3, x]^p, x], x, c/(3*d) + x] /; \text{EqQ}[c^2 - 3*b*d, 0] /; \text{FreeQ}[p, x] \&\& \text{PolyQ}[Px, x, 3]$
2479. $\text{Int}[(Px_)^{(p_.)}, x_Symbol] \text{:>} \text{With}\{a = \text{Coeff}[Px, x, 0], b = \text{Coeff}[Px, x, 1], c = \text{Coeff}[Px, x, 2], d = \text{Coeff}[Px, x, 3]\}, \text{Simp}[1/(4^p * (c^2 - 3*b*d)^{(3*p)}) \text{Int}[(c^3 - 4*b*c*d + 9*a*d^2 + d*(c^2 - 3*b*d)*x)^p * (b*c - 9*a*d + 2*(c^2 - 3*b*d)*x)^{(2*p)}, x], x] /; \text{EqQ}[b^2*c^2 - 4*a*c^3 - 4*b^3*d + 18*a*b*c*d - 27*a^2*d^2, 0] \&\& \text{NeQ}[c^2 - 3*b*d, 0] /; \text{FreeQ}[p, x] \&\& \text{PolyQ}[Px, x, 3] \&\& \text{IntegerQ}[p]$
2480. $\text{Int}[(Px_)^{(p_.)}, x_Symbol] \text{:>} \text{With}\{a = \text{Coeff}[Px, x, 0], b = \text{Coeff}[Px, x, 1], c = \text{Coeff}[Px, x, 2], d = \text{Coeff}[Px, x, 3]\}, \text{Simp}[Px^p / ((c^3 - 4*$

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b*c*d + 9*a*d^2 + d*(c^2 - 3*b*d)*x)^p*(b*c - 9*a*d + 2*(c^2 - 3*b*d)*
x)^(2*p)) Int[(c^3 - 4*b*c*d + 9*a*d^2 + d*(c^2 - 3*b*d)*x)^p*(b*c -
9*a*d + 2*(c^2 - 3*b*d)*x)^(2*p), x], x] /; EqQ[b^2*c^2 - 4*a*c^3 - 4
*b^3*d + 18*a*b*c*d - 27*a^2*d^2, 0] && NeQ[c^2 - 3*b*d, 0] /; FreeQ[
p, x] && PolyQ[Px, x, 3] && !IntegerQ[p]

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2481. Int[(Px_)^(p_), x_Symbol] := With[{a = Coeff[Px, x, 0], b = Coeff[Px,
x, 1], c = Coeff[Px, x, 2], d = Coeff[Px, x, 3]}, Subst[Int[Simp[(2*c^
3 - 9*b*c*d + 27*a*d^2)/(27*d^2) - (c^2 - 3*b*d)*(x/(3*d)) + d*x^3, x]
^p, x], x, c/(3*d) + x]] /; FreeQ[p, x] && PolyQ[Px, x, 3]

```

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2482. Int[((e_) + (f_)*(x_))^(m_)*((a_) + (b_)*(x_) + (d_)*(x_)^3)^(p_
), x_Symbol] := Simp[1/(3^(3*p))*a^(2*p)) Int[(e + f*x)^m*(3*a - b*x)
^p*(3*a + 2*b*x)^(2*p), x], x] /; FreeQ[{a, b, d, e, f, m}, x] && EqQ[
4*b^3 + 27*a^2*d, 0] && IntegerQ[p]

```

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2483. Int[((e_) + (f_)*(x_))^(m_)*((a_) + (b_)*(x_) + (d_)*(x_)^3)^(p_
), x_Symbol] := Simp[(a + b*x + d*x^3)^p/((3*a - b*x)^p*(3*a + 2*b*x)^(
2*p)) Int[(e + f*x)^m*(3*a - b*x)^p*(3*a + 2*b*x)^(2*p), x], x] /; F
reeQ[{a, b, d, e, f, m, p}, x] && EqQ[4*b^3 + 27*a^2*d, 0] && !Intege
rQ[p]

```

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2484. Int[((e_) + (f_)*(x_))^(m_)*((a_) + (b_)*(x_) + (d_)*(x_)^3)^(p_
), x_Symbol] := Int[ExpandIntegrand[(e + f*x)^m*(a + b*x + d*x^3)^p, x
], x] /; FreeQ[{a, b, d, e, f, m}, x] && NeQ[4*b^3 + 27*a^2*d, 0] && I
GtQ[p, 0]

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2485. Int[((e_) + (f_)*(x_))^(m_)*((a_) + (b_)*(x_) + (d_)*(x_)^3)^(p_
), x_Symbol] := With[{r = Rt[-9*a*d^2 + Sqrt[3]*d*Sqrt[4*b^3*d + 27*a^2
*d^2], 3]}, Simp[1/d^(2*p) Int[(e + f*x)^m*Simp[18^(1/3)*b*(d/(3*r))
- r/18^(1/3) + d*x, x]^p*Simp[b*(d/3) + 12^(1/3)*b^2*(d^2/(3*r^2)) +
r^2/(3*12^(1/3)) - d*(2^(1/3)*b*(d/(3^(1/3)*r)) - r/18^(1/3))*x + d^2*
x^2, x]^p, x], x]] /; FreeQ[{a, b, d, e, f, m}, x] && NeQ[4*b^3 + 27*a
^2*d, 0] && ILtQ[p, 0]

```

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2486. Int[((e_) + (f_)*(x_))^(m_)*((a_) + (b_)*(x_) + (d_)*(x_)^3)^(p_
), x_Symbol] := With[{r = Rt[-9*a*d^2 + Sqrt[3]*d*Sqrt[4*b^3*d + 27*a^2

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- $d^2]$, 3}], $\text{Simp}[(a + b*x + d*x^3)^p / (\text{Simp}[18^{1/3}*b*(d/(3*r)) - r/18^{1/3} + d*x, x]^p * \text{Simp}[b*(d/3) + 12^{1/3}*b^2*(d^2/(3*r^2)) + r^2/(3*12^{1/3}) - d*(2^{1/3}*b*(d/(3^{1/3}*r)) - r/18^{1/3})*x + d^2*x^2, x]^p)$
 $\text{Int}[(e + f*x)^m * \text{Simp}[18^{1/3}*b*(d/(3*r)) - r/18^{1/3} + d*x, x]^p * \text{Simp}[b*(d/3) + 12^{1/3}*b^2*(d^2/(3*r^2)) + r^2/(3*12^{1/3}) - d*(2^{1/3}*b*(d/(3^{1/3}*r)) - r/18^{1/3})*x + d^2*x^2, x]^p, x]$ /; $\text{FreeQ}\{a, b, d, e, f, m, p\}, x\} \&\& \text{NeQ}[4*b^3 + 27*a^2*d, 0] \&\& \text{IntegerQ}[p]$
2487. $\text{Int}[(e_.) + (f_.)*(x_)]^{(m_.)} * ((a_.) + (b_.)*(x_) + (c_.)*(x_)^2 + (d_.)*(x_)^3)^{(p_.)}$, $x_Symbol]$:> $\text{Subst}[\text{Int}[(3*d*e - c*f)/(3*d) + f*x]^m * \text{Simp}[a - b^2/(3*c) + d*x^3, x]^p, x], x, x + c/(3*d)]$ /; $\text{FreeQ}\{a, b, c, d, e, f, m, p\}, x\} \&\& \text{EqQ}[c^2 - 3*b*d, 0]$
2488. $\text{Int}[(e_.) + (f_.)*(x_)]^{(m_.)} * ((a_.) + (b_.)*(x_) + (c_.)*(x_)^2 + (d_.)*(x_)^3)^{(p_.)}$, $x_Symbol]$:> $\text{Simp}[1/(4^p*(c^2 - 3*b*d)^{(3*p)}) \text{Int}[(e + f*x)^m * (c^3 - 4*b*c*d + 9*a*d^2 + d*(c^2 - 3*b*d)*x)^p * (b*c - 9*a*d + 2*(c^2 - 3*b*d)*x)^{(2*p)}, x], x]$ /; $\text{FreeQ}\{a, b, c, d, e, f, m, p\}, x\} \&\& \text{NeQ}[c^2 - 3*b*d, 0] \&\& \text{EqQ}[b^2*c^2 - 4*a*c^3 - 4*b^3*d + 18*a*b*c*d - 27*a^2*d^2, 0] \&\& \text{ILtQ}[p, 0]$
2489. $\text{Int}[(e_.) + (f_.)*(x_)]^{(m_.)} * ((a_.) + (b_.)*(x_) + (c_.)*(x_)^2 + (d_.)*(x_)^3)^{(p_.)}$, $x_Symbol]$:> $\text{Simp}[(a + b*x + c*x^2 + d*x^3)^p / ((c^3 - 4*b*c*d + 9*a*d^2 + d*(c^2 - 3*b*d)*x)^p * (b*c - 9*a*d + 2*(c^2 - 3*b*d)*x)^{(2*p)}) \text{Int}[(e + f*x)^m * (c^3 - 4*b*c*d + 9*a*d^2 + d*(c^2 - 3*b*d)*x)^p * (b*c - 9*a*d + 2*(c^2 - 3*b*d)*x)^{(2*p)}, x], x]$ /; $\text{FreeQ}\{a, b, c, d, e, f, m, p\}, x\} \&\& \text{NeQ}[c^2 - 3*b*d, 0] \&\& \text{EqQ}[b^2*c^2 - 4*a*c^3 - 4*b^3*d + 18*a*b*c*d - 27*a^2*d^2, 0] \&\& \text{IntegerQ}[p]$
2490. $\text{Int}[(P3_)^{(p_.)} * ((e_.) + (f_.)*(x_)]^{(m_.)}$, $x_Symbol]$:> $\text{With}\{a = \text{Coeff}[P3, x, 0], b = \text{Coeff}[P3, x, 1], c = \text{Coeff}[P3, x, 2], d = \text{Coeff}[P3, x, 3]\}$, $\text{Subst}[\text{Int}[(3*d*e - c*f)/(3*d) + f*x]^m * \text{Simp}[(2*c^3 - 9*b*c*d + 27*a*d^2)/(27*d^2) - (c^2 - 3*b*d)*(x/(3*d)) + d*x^3, x]^p, x], x, x + c/(3*d)]$ /; $\text{NeQ}[c, 0]$ /; $\text{FreeQ}\{e, f, m, p\}, x\} \&\& \text{PolyQ}[P3, x, 3]$
2491. $\text{Int}[(u_.)*(Px_)^{(p_.)}$, $x_Symbol]$:> $\text{With}\{b = \text{Coeff}[Px, x, 1], c = \text{Coeff}[Px, x, 2], d = \text{Coeff}[Px, x, 3], e = \text{Coeff}[Px, x, 4]\}$, $\text{Simp}[Px^{\text{FracPa}}$

- $$\text{rt}[p]/(x^{\text{FracPart}[p]}(b + cx + dx^2 + ex^3)^{\text{FracPart}[p]}) \quad \text{Int}[ux^p(b + cx + dx^2 + ex^3)^p, x] /; \text{FreeQ}[p, x] \ \&\& \ \text{PolyQ}[Px, x, 4] \ \&\& \ \text{EqQ}[\text{Coeff}[Px, x, 0], 0] \ \&\& \ \text{!IntegerQ}[p]$$
2492. $\text{Int}[(Px_.)((a_)+(b_)(x_)+(c_)(x_)^2+(d_)(x_)^3+(e_)(x_)^4)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[e^p \text{Int}[\text{ExpandIntegrand}[Px*(b/d + ((d + \text{Sqrt}[e*((b^2 - 4*a*c)/a) + 8*a*d*(e/b)])/(2*e))*x + x^2)^p*(b/d + ((d - \text{Sqrt}[e*((b^2 - 4*a*c)/a) + 8*a*d*(e/b)])/(2*e))*x + x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{PolyQ}[Px, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{EqQ}[a*d^2 - b^2*e, 0]$
2493. $\text{Int}[(Px_.)((a_)+(b_)(x_)+(d_)(x_)^3+(e_)(x_)^4)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[e^p \text{Int}[\text{ExpandIntegrand}[Px*(b/d + ((d + \text{Sqrt}[d^2 + 8*a*d*(e/b)])/(2*e))*x + x^2)^p*(b/d + ((d - \text{Sqrt}[d^2 + 8*a*d*(e/b)])/(2*e))*x + x^2)^p, x], x] /; \text{FreeQ}[\{a, b, d, e\}, x] \ \&\& \ \text{PolyQ}[Px, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{EqQ}[a*d^2 - b^2*e, 0]$
2494. $\text{Int}[(Px_.)((a_)+(b_)(x_)+(c_)(x_)^2+(d_)(x_)^3+(e_)(x_)^4)^{(p_)}, x_Symbol] \rightarrow \text{With}[\{S = \text{Root}[a*d^2 - b^2*e + (b*d^2 - 4*b*c*e + 8*a*d*e)*x + (c*d^2 - 4*c^2*e + 2*b*d*e + 16*a*e^2)*x^2 + (d^3 - 4*c*d*e + 8*b*e^2)*x^3, 3]\}, \text{Subst}[\text{Int}[(Px / . x \rightarrow x + S)*\text{ExpandToSum}[a + b*(x + S) + c*(x + S)^2 + d*(x + S)^3 + e*(x + S)^4, x]^p, x], x, x - S] /; \text{RationalQ}[S] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{PolyQ}[Px, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{RationalQ}[a, b, c, d, e] \ \&\& \ \text{NeQ}[a*d^2 - b^2*e, 0]$
2495. $\text{Int}[(Px_.)((a_)+(b_)(x_)+(d_)(x_)^3+(e_)(x_)^4)^{(p_)}, x_Symbol] \rightarrow \text{With}[\{S = \text{Root}[a*d^2 - b^2*e + (b*d^2 + 8*a*d*e)*x + (2*b*d*e + 16*a*e^2)*x^2 + (d^3 + 8*b*e^2)*x^3, 3]\}, \text{Subst}[\text{Int}[(Px / . x \rightarrow x + S)*\text{ExpandToSum}[a + b*(x + S) + d*(x + S)^3 + e*(x + S)^4, x]^p, x], x, x - S] /; \text{RationalQ}[S] /; \text{FreeQ}[\{a, b, d, e\}, x] \ \&\& \ \text{PolyQ}[Px, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{RationalQ}[a, b, d, e] \ \&\& \ \text{NeQ}[a*d^2 - b^2*e, 0]$
2496. $\text{Int}[(Px_.)*(x_)^{(m_)}((a_)+(b_)(x_)+(c_)(x_)^2+(d_)(x_)^3+(e_)(x_)^4)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[e^p \text{Int}[\text{ExpandIntegrand}[x^m * Px*(b/d + ((d + \text{Sqrt}[e*((b^2 - 4*a*c)/a) + 8*a*d*(e/b)])/(2*e))*x + x^2)^p*(b/d + ((d - \text{Sqrt}[e*((b^2 - 4*a*c)/a) + 8*a*d*(e/b)])/(2*e))*x + x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{PolyQ}[Px, x] \ \&\&$

- ILtQ[p, 0] && EqQ[a*d^2 - b^2*e, 0]
2497. Int[(Px_)*(x_)^(m_)*((a_) + (b_)*(x_) + (d_)*(x_)^3 + (e_)*(x_)^4)^(p_), x_Symbol] := Simp[e^p Int[ExpandIntegrand[x^m*Px*(b/d + ((d + Sqrt[d^2 + 8*a*d*(e/b)])/(2*e))*x + x^2)^p*(b/d + ((d - Sqrt[d^2 + 8*a*d*(e/b)])/(2*e))*x + x^2)^p, x], x] /; FreeQ[{a, b, d, e, m}, x] && PolyQ[Px, x] && ILtQ[p, 0] && EqQ[a*d^2 - b^2*e, 0]
2498. Int[(Px_)*((a_) + (b_)*(x_) + (c_)*(x_)^2 + (d_)*(x_)^3 + (e_)*(x_)^4)^(p_), x_Symbol] := Simp[1/a^(3*p) Int[ExpandIntegrand[Px*((a^5 - b^5*x^5)^p/(a - b*x)^p), x], x], x] /; FreeQ[{a, b, c, d, e}, x] && PolyQ[Px, x] && ILtQ[p, 0] && NeQ[a, 0] && EqQ[c, b^2/a] && EqQ[d, b^3/a^2] && EqQ[e, b^4/a^3]
2499. Int[(Px_)*(x_)^(m_)*((a_) + (b_)*(x_) + (c_)*(x_)^2 + (d_)*(x_)^3 + (e_)*(x_)^4)^(p_), x_Symbol] := Simp[1/a^(3*p) Int[ExpandIntegrand[x^m*Px*((a^5 - b^5*x^5)^p/(a - b*x)^p), x], x], x] /; FreeQ[{a, b, c, d, e, m}, x] && PolyQ[Px, x] && ILtQ[p, 0] && NeQ[a, 0] && EqQ[c, b^2/a] && EqQ[d, b^3/a^2] && EqQ[e, b^4/a^3]
2500. Int[((A_) + (B_)*(x_) + (C_)*(x_)^2)/((a_) + (b_)*(x_) + (c_)*(x_)^2 + (d_)*(x_)^3 + (e_)*(x_)^4), x_Symbol] := With[{q = Rt[C*(2*e*(B*d - 4*A*e) + C*(d^2 - 4*c*e)), 2]}, Simp[-2*(C^2/q)*ArcTanh[(C*d - B*e + 2*C*e*x)/q], x] + Simp[2*(C^2/q)*ArcTanh[C*((4*B*c*C - 3*B^2*d - 4*A*C*d + 12*A*B*e + 4*C*(2*c*C - B*d + 2*A*e))*x + 4*C*(2*C*d - B*e)*x^2 + 8*C^2*e*x^3)/(q*(B^2 - 4*A*C))], x]] /; FreeQ[{a, b, c, d, e, A, B, C}, x] && EqQ[B^2*d + 2*C*(b*C + A*d) - 2*B*(c*C + 2*A*e), 0] && EqQ[2*B^2*c*C - 8*a*C^3 - B^3*d - 4*A*B*C*d + 4*A*(B^2 + 2*A*C)*e, 0] && PosQ[C*(2*e*(B*d - 4*A*e) + C*(d^2 - 4*c*e))]
2501. Int[((A_) + (C_)*(x_)^2)/((a_) + (b_)*(x_) + (c_)*(x_)^2 + (d_)*(x_)^3 + (e_)*(x_)^4), x_Symbol] := With[{q = Rt[C*(-8*A*e^2 + C*(d^2 - 4*c*e)), 2]}, Simp[-2*(C^2/q)*ArcTanh[C*((d + 2*e*x)/q)], x] + Simp[2*(C^2/q)*ArcTanh[C*((A*d - 2*(c*C + A*e))*x - 2*C*d*x^2 - 2*C*e*x^3)/(A*q)], x]] /; FreeQ[{a, b, c, d, e, A, C}, x] && EqQ[b*C + A*d, 0] && EqQ[a*C^2 - A^2*e, 0] && PosQ[C*(-8*A*e^2 + C*(d^2 - 4*c*e))]

2502. $\text{Int}[(A_.) + (B_.)(x_) + (C_.)(x_)^2 / ((a_) + (b_.)(x_) + (c_.)(x_)^2 + (d_.)(x_)^3 + (e_.)(x_)^4), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(-C)*(2*e*(B*d - 4*A*e) + C*(d^2 - 4*c*e)), 2]\}, \text{Simp}[2*(C^2/q)*\text{ArcTan}[(C*d - B*e + 2*C*e*x)/q], x] - \text{Simp}[2*(C^2/q)*\text{ArcTan}[C*((4*B*c*C - 3*B^2*d - 4*A*C*d + 12*A*B*e + 4*C*(2*c*C - B*d + 2*A*e)*x + 4*C*(2*C*d - B*e)*x^2 + 8*C^2*e*x^3)/(q*(B^2 - 4*A*C))], x]] /; \text{FreeQ}[\{a, b, c, d, e, A, B, C\}, x] \&\& \text{EqQ}[B^2*d + 2*C*(b*C + A*d) - 2*B*(c*C + 2*A*e), 0] \&\& \text{EqQ}[2*B^2*c*C - 8*a*C^3 - B^3*d - 4*A*B*C*d + 4*A*(B^2 + 2*A*C)*e, 0] \&\& \text{NegQ}[C*(2*e*(B*d - 4*A*e) + C*(d^2 - 4*c*e))]$
2503. $\text{Int}[(A_.) + (C_.)(x_)^2 / ((a_) + (b_.)(x_) + (c_.)(x_)^2 + (d_.)(x_)^3 + (e_.)(x_)^4), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[(-C)*(-8*A*e^2 + C*(d^2 - 4*c*e)), 2]\}, \text{Simp}[2*(C^2/q)*\text{ArcTan}[(C*d + 2*C*e*x)/q], x] - \text{Simp}[2*(C^2/q)*\text{ArcTan}[(-C)*((-A)*d + 2*(c*C + A*e)*x + 2*C*d*x^2 + 2*C*e*x^3)/(A*q)], x]] /; \text{FreeQ}[\{a, b, c, d, e, A, C\}, x] \&\& \text{EqQ}[b*C + A*d, 0] \&\& \text{EqQ}[a*C^2 - A^2*e, 0] \&\& \text{NegQ}[C*(-8*A*e^2 + C*(d^2 - 4*c*e))]$
2504. $\text{Int}[(P4_)^(p_), x_Symbol] \rightarrow \text{With}[\{a = \text{Coeff}[P4, x, 0], b = \text{Coeff}[P4, x, 1], c = \text{Coeff}[P4, x, 2], d = \text{Coeff}[P4, x, 3], e = \text{Coeff}[P4, x, 4]\}, \text{Simp}[-16*a^2 \text{Subst}[\text{Int}[(1/(b - 4*a*x)^2)*(a*((-3*b^4 + 16*a*b^2*c - 64*a^2*b*d + 256*a^3*e - 32*a^2*(3*b^2 - 8*a*c)*x^2 + 256*a^4*x^4)/(b - 4*a*x)^4)]^p, x], x, b/(4*a) + 1/x], x] /; \text{NeQ}[a, 0] \&\& \text{NeQ}[b, 0] \&\& \text{EqQ}[b^3 - 4*a*b*c + 8*a^2*d, 0] /; \text{FreeQ}[p, x] \&\& \text{PolyQ}[P4, x, 4] \&\& \text{IntegerQ}[2*p] \&\& !\text{IGtQ}[p, 0]$
2505. $\text{Int}[(x_)/\text{Sqrt}[(a_) + (b_.)(x_) + (c_.)(x_)^2 + (e_.)(x_)^4], x_Symbol] \rightarrow \text{With}[\{Px = (1/320)*(33*b^2*c + 6*a*c^2 + 40*a^2*e) - (22/5)*a*c*e*x^2 + (22/15)*b*c*e*x^3 + (1/4)*e*(5*c^2 + 4*a*e)*x^4 + (4/3)*b*e^2*x^5 + 2*c*e^2*x^6 + e^3*x^8\}, \text{Simp}[(1/(8*\text{Rt}[e, 2]))*\text{Log}[Px + (1/(8*\text{Rt}[e, 2]*x) \text{D}[Px, x])*\text{Sqrt}[a + b*x + c*x^2 + e*x^4]], x]] /; \text{FreeQ}[\{a, b, c, e\}, x] \&\& \text{EqQ}[71*c^2 + 100*a*e, 0] \&\& \text{EqQ}[1152*c^3 - 125*b^2*e, 0]$
2506. $\text{Int}[(A_) + (B_.)(x_)/\text{Sqrt}[(a_) + (b_.)(x_) + (c_.)(x_)^2 + (d_.)(x_)^3 + (e_.)(x_)^4], x_Symbol] \rightarrow \text{Simp}[B \text{Subst}[\text{Int}[x/\text{Sqrt}[(-3*d^4 + 16*c*d^2*e - 64*b*d*e^2 + 256*a*e^3)/(256*e^3) + (d^3 - 4*c*d*e + 8*b*e^2)*(x/(8*e^2)) - (3*d^2 - 8*c*e)*(x^2/(8*e)) + e*x^4], x], x, d/($

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4*e) + x], x] /; FreeQ[{a, b, c, d, e, A, B}, x] && EqQ[B*d - 4*A*e, 0]
] && EqQ[d*(141*d^3 - 752*c*d*e - 400*b*e^2) + 16*e^2*(71*c^2 + 100*a*
e), 0] && EqQ[144*(3*d^2 - 8*c*e)^3 + 125*(d^3 - 4*c*d*e + 8*b*e^2)^2,
0]

2507. Int[((f_) + (g_)*(x_)^2)/(((d_) + (e_)*(x_) + (d_)*(x_)^2)*Sqrt[(a_
) + (b_)*(x_) + (c_)*(x_)^2 + (b_)*(x_)^3 + (a_)*(x_)^4]), x_Symbol]
:> Simp[a*(f/(d*Rt[a^2*(2*a - c), 2]))*ArcTan[(a*b + (4*a^2 + b^2 -
2*a*c)*x + a*b*x^2)/(2*Rt[a^2*(2*a - c), 2]*Sqrt[a + b*x + c*x^2 + b*
x^3 + a*x^4])], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[b*d - a*e
, 0] && EqQ[f + g, 0] && PosQ[a^2*(2*a - c)]

2508. Int[((f_) + (g_)*(x_)^2)/(((d_) + (e_)*(x_) + (d_)*(x_)^2)*Sqrt[(a_
) + (b_)*(x_) + (c_)*(x_)^2 + (b_)*(x_)^3 + (a_)*(x_)^4]), x_Symbol]
:> Simp[(-a)*(f/(d*Rt[(-a^2)*(2*a - c), 2]))*ArcTanh[(a*b + (4*a^2
+ b^2 - 2*a*c)*x + a*b*x^2)/(2*Rt[(-a^2)*(2*a - c), 2]*Sqrt[a + b*x +
c*x^2 + b*x^3 + a*x^4])], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ
[b*d - a*e, 0] && EqQ[f + g, 0] && NegQ[a^2*(2*a - c)]

2509. Int[(Pn_)^(p_)*((g_) + (h_)*(x_)^(m_)), x_Symbol] :> With[{Px = Pn
/. x -> (x - g)/h}, Simp[1/h Subst[Int[x^m*ExpandToSum[Px, x]^p, x],
x, g + h*x], x] /; BinomialQ[Px, x]] /; FreeQ[{g, h, m, p}, x] && PolyQ[Pn, x]

2510. Int[(Pn_)^(p_)*(u_)^(m_), x_Symbol] :> With[{Px = Pn /. x -> (x - Co
eff[u, x, 0])/Coeff[u, x, 1]}, Simp[1/Coeff[u, x, 1] Subst[Int[x^m*E
xpandToSum[Px, x]^p, x], x, u], x] /; BinomialQ[Px, x]] /; FreeQ[{m, p
}, x] && LinearQ[u, x] && PolyQ[Pn, x] && NeQ[Coeff[u, x, 0], 0]

2511. Int[(Pn_)^(p_)*(Qn_)^(q_)*((g_) + (h_)*(x_)^(m_)), x_Symbol] :> Wi
th[{Px = Pn /. x -> (x - g)/h, Qx = Qn /. x -> (x - g)/h}, Simp[1/h
Subst[Int[x^m*ExpandToSum[Px, x]^p*ExpandToSum[Qx, x]^q, x], x, g + h*
x], x] /; BinomialQ[Px, x] && BinomialQ[Qx, x]] /; FreeQ[{g, h, m, p,
q}, x] && PolyQ[Pn, x] && PolyQ[Qn, x] && EqQ[Expon[Pn, x], Expon[Qn,
x]]

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2512.  $\text{Int}[(Pn\_)^{(p\_)}*(Qn\_)^{(q\_)}*(u\_)^{(m\_)}, x\_Symbol] := \text{With}[\{Px = Pn / . x \rightarrow (x - \text{Coeff}[u, x, 0])/\text{Coeff}[u, x, 1], Qx = Qn / . x \rightarrow (x - \text{Coeff}[u, x, 0])/\text{Coeff}[u, x, 1]\}, \text{Simp}[1/\text{Coeff}[u, x, 1] \text{ Subst}[\text{Int}[x^m*\text{ExpandToSum}[Px, x]^p*\text{ExpandToSum}[Qx, x]^q, x, u], x] /; \text{BinomialQ}[Px, x] \&\& \text{BinomialQ}[Qx, x] /; \text{FreeQ}[\{m, p, q\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{PolyQ}[Pn, x] \&\& \text{PolyQ}[Qn, x] \&\& \text{EqQ}[\text{Expon}[Pn, x], \text{Expon}[Qn, x]] \&\& \text{NeQ}[\text{Coeff}[u, x, 0], 0]$
2513.  $\text{Int}[(Pn\_)^{(p\_)}*(Qn\_)^{(q\_)}*(Rn\_)^{(r\_)}*((g\_)+(h\_)*(x\_))^{(m\_)}, x\_Symbol] := \text{With}[\{Px = Pn / . x \rightarrow (x - g)/h, Qx = Qn / . x \rightarrow (x - g)/h, Rx = Rn / . x \rightarrow (x - g)/h\}, \text{Simp}[1/h \text{ Subst}[\text{Int}[x^m*\text{ExpandToSum}[Px, x]^p*\text{ExpandToSum}[Qx, x]^q*\text{ExpandToSum}[Rx, x]^r, x, g + h*x], x] /; \text{BinomialQ}[Px, x] \&\& \text{BinomialQ}[Qx, x] \&\& \text{BinomialQ}[Rx, x] /; \text{FreeQ}[\{g, h, m, p, q, r\}, x] \&\& \text{PolyQ}[Pn, x] \&\& \text{PolyQ}[Qn, x] \&\& \text{PolyQ}[Rn, x] \&\& \text{EqQ}[\text{Expon}[Pn, x], \text{Expon}[Qn, x]] \&\& \text{EqQ}[\text{Expon}[Pn, x], \text{Expon}[Rn, x]]]$
2514.  $\text{Int}[(Pn\_)^{(p\_)}*(Qn\_)^{(q\_)}*(Rn\_)^{(r\_)}*(u\_)^{(m\_)}, x\_Symbol] := \text{With}[\{Px = Pn / . x \rightarrow (x - \text{Coeff}[u, x, 0])/\text{Coeff}[u, x, 1], Qx = Qn / . x \rightarrow (x - \text{Coeff}[u, x, 0])/\text{Coeff}[u, x, 1], Rx = Rn / . x \rightarrow (x - \text{Coeff}[u, x, 0])/\text{Coeff}[u, x, 1]\}, \text{Simp}[1/\text{Coeff}[u, x, 1] \text{ Subst}[\text{Int}[x^m*\text{ExpandToSum}[Px, x]^p*\text{ExpandToSum}[Qx, x]^q*\text{ExpandToSum}[Rx, x]^r, x, u], x] /; \text{BinomialQ}[Px, x] \&\& \text{BinomialQ}[Qx, x] \&\& \text{BinomialQ}[Rx, x] /; \text{FreeQ}[\{m, p, q, r\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{PolyQ}[Pn, x] \&\& \text{PolyQ}[Qn, x] \&\& \text{PolyQ}[Rn, x] \&\& \text{EqQ}[\text{Expon}[Pn, x], \text{Expon}[Qn, x]] \&\& \text{EqQ}[\text{Expon}[Pn, x], \text{Expon}[Rn, x]] \&\& \text{NeQ}[\text{Coeff}[u, x, 0], 0]$
2515.  $\text{Int}[(Pn\_)^{(p\_)}*((g\_)+(h\_)*(x\_))^{(m\_)}, x\_Symbol] := \text{With}[\{Px = Pn / . x \rightarrow (x - g)/h\}, \text{Simp}[1/h \text{ Subst}[\text{Int}[x^m*\text{ExpandToSum}[Px, x]^p, x, g + h*x], x] /; \text{TrinomialQ}[Px, x] /; \text{FreeQ}[\{g, h, m, p\}, x] \&\& \text{PolyQ}[Pn, x]$
2516.  $\text{Int}[(Pn\_)^{(p\_)}*(u\_)^{(m\_)}, x\_Symbol] := \text{With}[\{Px = Pn / . x \rightarrow (x - \text{Coeff}[u, x, 0])/\text{Coeff}[u, x, 1]\}, \text{Simp}[1/\text{Coeff}[u, x, 1] \text{ Subst}[\text{Int}[x^m*\text{ExpandToSum}[Px, x]^p, x, u], x] /; \text{TrinomialQ}[Px, x] /; \text{FreeQ}[\{m, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{PolyQ}[Pn, x] \&\& \text{NeQ}[\text{Coeff}[u, x, 0], 0]$

2517.  $\text{Int}[\text{Sqrt}[v\_]/((d\_)+(e\_)*(x\_)^4), x\_Symbol] \rightarrow \text{With}[\{a = \text{Coeff}[v, x, 0], b = \text{Coeff}[v, x, 2], c = \text{Coeff}[v, x, 4]\}, \text{Simp}[a/d \text{ Subst}[\text{Int}[1/(1 - 2*b*x^2 + (b^2 - 4*a*c)*x^4), x], x, x/\text{Sqrt}[v]], x] /; \text{EqQ}[c*d + a*e, 0] \&\& \text{PosQ}[a*c]] /; \text{FreeQ}[\{d, e\}, x] \&\& \text{PolyQ}[v, x^2, 2]$
2518.  $\text{Int}[\text{Sqrt}[(a\_)+(b\_)*(x\_)^2 + (c\_)*(x\_)^4]/((d\_)+(e\_)*(x\_)^4), x\_Symbol] \rightarrow \text{With}[\{q = \text{Sqrt}[b^2 - 4*a*c]\}, \text{Simp}[(-a)*(\text{Sqrt}[b + q]/(2*\text{Sqrt}[2]*\text{Rt}[(-a)*c, 2]*d))*\text{ArcTan}[\text{Sqrt}[b + q]*x*((b - q + 2*c*x^2)/(2*\text{Sqrt}[2]*\text{Rt}[(-a)*c, 2]*\text{Sqrt}[a + b*x^2 + c*x^4]))], x] + \text{Simp}[a*(\text{Sqrt}[-b + q]/(2*\text{Sqrt}[2]*\text{Rt}[(-a)*c, 2]*d))*\text{ArcTanh}[\text{Sqrt}[-b + q]*x*((b + q + 2*c*x^2)/(2*\text{Sqrt}[2]*\text{Rt}[(-a)*c, 2]*\text{Sqrt}[a + b*x^2 + c*x^4]))], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c*d + a*e, 0] \&\& \text{NegQ}[a*c]$
2519.  $\text{Int}[(A\_)+(B\_)*(x\_)^{(n\_)}]/((a\_)+(b\_)*(x\_)^2 + (c\_)*(x\_)^{(n\_)} + (d\_)*(x\_)^{(n2\_)}), x\_Symbol] \rightarrow \text{Simp}[A^{2*(n-1)} \text{ Subst}[\text{Int}[1/(a + A^{2*b*(n-1)^2*x^2}), x], x, x/(A^{*(n-1)} - B*x^n)], x] /; \text{FreeQ}[\{a, b, c, d, A, B, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[n, 2] \&\& \text{EqQ}[a*B^2 - A^{2*d*(n-1)^2}, 0] \&\& \text{EqQ}[B*c + 2*A*d*(n-1), 0]$
2520.  $\text{Int}[(x\_)^{(m\_)}*((A\_)+(B\_)*(x\_)^{(n\_)}))/((a\_)+(b\_)*(x\_)^{(k\_)} + (c\_)*(x\_)^{(n2\_)} + (d\_)*(x\_)^{(n2\_)}), x\_Symbol] \rightarrow \text{Simp}[A^{2*(m-n+1)/(m+1)} \text{ Subst}[\text{Int}[1/(a + A^{2*b*(m-n+1)^2*x^2}), x], x, x^{(m+1)/(A^{*(m-n+1)} + B*(m+1)*x^n)], x] /; \text{FreeQ}[\{a, b, c, d, A, B, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[k, 2*(m+1)] \&\& \text{EqQ}[a*B^{2*(m+1)^2} - A^{2*d*(m-n+1)^2}, 0] \&\& \text{EqQ}[B*c*(m+1) - 2*A*d*(m-n+1), 0]$
2521.  $\text{Int}[(a\_)+(b\_)*(x\_)^2 + (c\_)*(x\_)^4]/((d\_)+(e\_)*(x\_)^2 + (f\_)*(x\_)^4 + (g\_)*(x\_)^6), x\_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[((-a)*c*f^2 + 12*a^2*g^2 + f*(3*c^2*d - 2*a*b*g))/(c*g*(3*c*d - a*f)), 2], r = \text{Rt}[(a*c*f^2 + 4*g*(b*c*d + a^2*g) - f*(3*c^2*d + 2*a*b*g))/(c*g*(3*c*d - a*f)), 2]\}, \text{Simp}[(c/(g*q))*\text{ArcTan}[(r + 2*x)/q], x] + (-\text{Simp}[(c/(g*q))*\text{ArcTan}[(r - 2*x)/q], x] - \text{Simp}[(c/(g*q))*\text{ArcTan}[(3*c*d - a*f)*(x/(g*q*(b*c*d - 2*a^2*g)*(b*c*d - a*b*f + 4*a^2*g)))*(b*c^2*d*f - a*b^2*f*g - 2*a^2*c*f*g + 6*a^2*b*g^2 + c*(3*c^2*d*f - a*c*f^2 - b*c*d*g + 2*a^2*g^2)*x^2 + c^2*g*(3*c*d - a*f)*x^4)], x)] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[9*c^3*d^2 - c*(b^2 + 6*a*c)*d*f + a^2*c*f^2 + 2*a*b*(3*c*d + a*f)*g - 12*a^3*g^2, 0] \&\& \text{EqQ}[3*c^4*d^2*e - 3*a^2*c^2*d*f*g + a^3*c*f^2$

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*g + 2*a^3*g^2*(b*f - 6*a*g) - c^3*d*(2*b*d*f + a*e*f - 12*a*d*g), 0]
&& NeQ[3*c*d - a*f, 0] && NeQ[b*c*d - 2*a^2*g, 0] && NeQ[b*c*d - a*b*f
+ 4*a^2*g, 0] && PosQ[((-a)*c*f^2 + 12*a^2*g^2 + f*(3*c^2*d - 2*a*b*g
))/(c*g*(3*c*d - a*f))]

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2522. $\text{Int}[\frac{(a_.) + (c_.)x^4}{(d_.) + (e_.)x^2 + (f_.)x^4 + (g_.)x^6}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[\frac{((-a)cf^2 + 12a^2g^2 + 3f^2c^2d)}{c^2g(3cd - af)}, 2], r = \text{Rt}[\frac{a^2cf^2 + 4a^2g^2 - 3c^2d^2f}{c^2g(3cd - af)}, 2]\}, \text{Simp}[\frac{c}{gq}] \text{ArcTan}[\frac{r + 2x}{q}], x] + (-\text{Simp}[\frac{c}{gq}] \text{ArcTan}[\frac{r - 2x}{q}], x) - \text{Simp}[\frac{c}{gq}] \text{ArcTan}[\frac{c(3cd - af)xx(2a^2fg - (3c^2d^2f - a^2cf^2 + 2a^2g^2)x^2 - c(3cd - af)gx^4)}{(8a^4g^3q)}], x)] /; \text{FreeQ}\{a, c, d, e, f, g\}, x] \&\& \text{EqQ}[9c^3d^2 - 6a^2c^2d^2f + a^2c^2f^2 - 12a^3g^2, 0] \&\& \text{EqQ}[3c^4d^2e - 3a^2c^2d^2fg + a^3c^2f^2g - 12a^4g^3 - a^3c^2d(e - 12d^2g), 0] \&\& \text{NeQ}[3cd - af, 0] \&\& \text{PosQ}[\frac{((-a)cf^2 + 12a^2g^2 + 3c^2d^2f)}{c^2g(3cd - af)}]$
2523. $\text{Int}[\frac{Pm_}{Qn_}, x_Symbol] \rightarrow \text{With}[\{m = \text{Expon}[Pm, x], n = \text{Expon}[Qn, x]\}, \text{Simp}[\text{Coeff}[Pm, x, m] * (\text{Log}[Qn] / (n * \text{Coeff}[Qn, x, n]))], x] + \text{Simp}[\text{Simplify}[Pm - \text{Coeff}[Pm, x, m] * (D[Qn, x] / (n * \text{Coeff}[Qn, x, n]))] \text{Int}[1/Qn, x], x] /; \text{EqQ}[m, n - 1] \&\& \text{EqQ}[D[\text{Simplify}[Pm - (\text{Coeff}[Pm, x, m] / (n * \text{Coeff}[Qn, x, n]))] * D[Qn, x]], x], 0] /; \text{PolyQ}[Pm, x] \&\& \text{PolyQ}[Qn, x]$
2524. $\text{Int}[(Pm_)*(Qn_)^{(p_)}, x_Symbol] \rightarrow \text{With}[\{m = \text{Expon}[Pm, x], n = \text{Expon}[Qn, x]\}, \text{Simp}[\text{Coeff}[Pm, x, m] * (Qn^{(p+1)} / (n * (p+1) * \text{Coeff}[Qn, x, n]))], x] + \text{Simp}[\text{Simplify}[Pm - \text{Coeff}[Pm, x, m] * (D[Qn, x] / (n * \text{Coeff}[Qn, x, n]))] \text{Int}[Qn^p, x], x] /; \text{EqQ}[m, n - 1] \&\& \text{EqQ}[D[\text{Simplify}[Pm - (\text{Coeff}[Pm, x, m] / (n * \text{Coeff}[Qn, x, n]))] * D[Qn, x]], x], 0] /; \text{FreeQ}[p, x] \&\& \text{PolyQ}[Pm, x] \&\& \text{PolyQ}[Qn, x] \&\& \text{NeQ}[p, -1]$
2525. $\text{Int}[\frac{Pm_}{Qn_}, x_Symbol] \rightarrow \text{With}[\{m = \text{Expon}[Pm, x], n = \text{Expon}[Qn, x]\}, \text{Simp}[\text{Coeff}[Pm, x, m] * (\text{Log}[Qn] / (n * \text{Coeff}[Qn, x, n]))], x] + \text{Simp}[1 / (n * \text{Coeff}[Qn, x, n]) \text{Int}[\text{ExpandToSum}[n * \text{Coeff}[Qn, x, n] * Pm - \text{Coeff}[Pm, x, m] * D[Qn, x], x] / Qn, x], x] /; \text{EqQ}[m, n - 1] /; \text{PolyQ}[Pm, x] \&\& \text{PolyQ}[Qn, x]$

2526. `Int[(Pm_)*(Qn_)^(p_), x_Symbol] := With[{m = Expon[Pm, x], n = Expon[Qn, x]}, Simp[Coeff[Pm, x, m]*(Qn^(p + 1)/(n*(p + 1)*Coeff[Qn, x, n])), x] + Simp[1/(n*Coeff[Qn, x, n]) Int[ExpandToSum[n*Coeff[Qn, x, n]*Pm - Coeff[Pm, x, m]*D[Qn, x], x]*Qn^p, x], x] /; EqQ[m, n - 1]] /; FreeQ[p, x] && PolyQ[Pm, x] && PolyQ[Qn, x] && NeQ[p, -1]`
2527. `Int[(Pm_)*(Qn_)^(p_.), x_Symbol] := With[{m = Expon[Pm, x], n = Expon[Qn, x]}, Simp[Coeff[Pm, x, m]*x^(m - n + 1)*(Qn^(p + 1)/((m + n*p + 1)*Coeff[Qn, x, n])), x] + Simp[1/((m + n*p + 1)*Coeff[Qn, x, n]) Int[ExpandToSum[(m + n*p + 1)*Coeff[Qn, x, n]*Pm - Coeff[Pm, x, m]*x^(m - n)*(m - n + 1)*Qn + (p + 1)*x*D[Qn, x]], x]*Qn^p, x], x] /; LtQ[1, n, m + 1] && m + n*p + 1 < 0] /; FreeQ[p, x] && PolyQ[Pm, x] && PolyQ[Qn, x] && LtQ[p, -1]`
2528. `Int[(u_)/((e_)*Sqrt[(a_.) + (b_.)*(x_)] + (f_.)*Sqrt[(c_.) + (d_.)*(x_)]), x_Symbol] := Simp[c/(e*(b*c - a*d)) Int[(u*Sqrt[a + b*x])/x, x], x] - Simp[a/(f*(b*c - a*d)) Int[(u*Sqrt[c + d*x])/x, x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && EqQ[a*e^2 - c*f^2, 0]`
2529. `Int[(u_)/((e_)*Sqrt[(a_.) + (b_.)*(x_)] + (f_.)*Sqrt[(c_.) + (d_.)*(x_)]), x_Symbol] := Simp[-d/(e*(b*c - a*d)) Int[u*Sqrt[a + b*x], x], x] + Simp[b/(f*(b*c - a*d)) Int[u*Sqrt[c + d*x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && EqQ[b*e^2 - d*f^2, 0]`
2530. `Int[(u_)/((e_)*Sqrt[(a_.) + (b_.)*(x_)] + (f_.)*Sqrt[(c_.) + (d_.)*(x_)]), x_Symbol] := Simp[e Int[(u*Sqrt[a + b*x])/(a*e^2 - c*f^2 + (b*e^2 - d*f^2)*x), x], x] - Simp[f Int[(u*Sqrt[c + d*x])/(a*e^2 - c*f^2 + (b*e^2 - d*f^2)*x), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[a*e^2 - c*f^2, 0] && NeQ[b*e^2 - d*f^2, 0]`
2531. `Int[(u_)/((d_.)*(x_)^(n_.) + (c_.)*Sqrt[(a_.) + (b_.)*(x_)^(p_.)]), x_Symbol] := Simp[-b/(a*d) Int[u*x^n, x], x] + Simp[1/(a*c) Int[u*Sqrt[a + b*x^(2*n)], x], x] /; FreeQ[{a, b, c, d, n}, x] && EqQ[p, 2*n] && EqQ[b*c^2 - d^2, 0]`

2532. `Int[(x_)^(m_.)/((d_.)*(x_)^(n_.) + (c_.)*Sqrt[(a_.) + (b_.)*(x_)^(p_.)]), x_Symbol] := Simp[-d Int[x^(m + n)/(a*c^2 + (b*c^2 - d^2)*x^(2*n)), x], x] + Simp[c Int[(x^m*Sqrt[a + b*x^(2*n)])/(a*c^2 + (b*c^2 - d^2)*x^(2*n)), x], x] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[p, 2*n] && NeQ[b*c^2 - d^2, 0]`
2533. `Int[1/(Sqrt[(d_.) + (e_.)*(x_) + (f_.)*(x_)^2]*((a_) + (b_.)*(x_)^3)), x_Symbol] := With[{r = Numerator[Rt[a/b, 3]], s = Denominator[Rt[a/b, 3]]}, Simp[r/(3*a) Int[1/((r + s*x)*Sqrt[d + e*x + f*x^2]), x], x] + Simp[r/(3*a) Int[(2*r - s*x)/((r^2 - r*s*x + s^2*x^2)*Sqrt[d + e*x + f*x^2]), x], x]] /; FreeQ[{a, b, d, e, f}, x] && PosQ[a/b]`
2534. `Int[1/(Sqrt[(d_.) + (f_.)*(x_)^2]*((a_) + (b_.)*(x_)^3)), x_Symbol] := With[{r = Numerator[Rt[a/b, 3]], s = Denominator[Rt[a/b, 3]]}, Simp[r/(3*a) Int[1/((r + s*x)*Sqrt[d + f*x^2]), x], x] + Simp[r/(3*a) Int[(2*r - s*x)/((r^2 - r*s*x + s^2*x^2)*Sqrt[d + f*x^2]), x], x]] /; FreeQ[{a, b, d, f}, x] && PosQ[a/b]`
2535. `Int[1/(Sqrt[(d_.) + (e_.)*(x_) + (f_.)*(x_)^2]*((a_) + (b_.)*(x_)^3)), x_Symbol] := With[{r = Numerator[Rt[-a/b, 3]], s = Denominator[Rt[-a/b, 3]]}, Simp[r/(3*a) Int[1/((r - s*x)*Sqrt[d + e*x + f*x^2]), x], x] + Simp[r/(3*a) Int[(2*r + s*x)/((r^2 + r*s*x + s^2*x^2)*Sqrt[d + e*x + f*x^2]), x], x]] /; FreeQ[{a, b, d, e, f}, x] && NegQ[a/b]`
2536. `Int[1/(Sqrt[(d_.) + (f_.)*(x_)^2]*((a_) + (b_.)*(x_)^3)), x_Symbol] := With[{r = Numerator[Rt[-a/b, 3]], s = Denominator[Rt[-a/b, 3]]}, Simp[r/(3*a) Int[1/((r - s*x)*Sqrt[d + f*x^2]), x], x] + Simp[r/(3*a) Int[(2*r + s*x)/((r^2 + r*s*x + s^2*x^2)*Sqrt[d + f*x^2]), x], x]] /; FreeQ[{a, b, d, f}, x] && NegQ[a/b]`
2537. `Int[((u_)*((A_) + (B_.)*(x_)^4))/Sqrt[v_], x_Symbol] := With[{a = Coeff[f[v, x, 0], b = Coeff[v, x, 2], c = Coeff[v, x, 4], d = Coeff[1/u, x, 0], e = Coeff[1/u, x, 2], f = Coeff[1/u, x, 4]}, Simp[A Subst[Int[1/(d - (b*d - a*e)*x^2), x], x, x/Sqrt[v]], x] /; EqQ[a*B + A*c, 0] && EqQ[c*d - a*f, 0] /; FreeQ[{A, B}, x] && PolyQ[v, x^2, 2] && PolyQ[1/u, x^2, 2]`

2538. $\text{Int}[1/(((a_)+(b_)(x_))*\text{Sqrt}[(c_)+(d_)(x_)^2]*\text{Sqrt}[(e_)+(f_)(x_)^2]), x_Symbol] \rightarrow \text{Simp}[a \text{ Int}[1/((a^2 - b^2*x^2)*\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x] - \text{Simp}[b \text{ Int}[x/((a^2 - b^2*x^2)*\text{Sqrt}[c + d*x^2]*\text{Sqrt}[e + f*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x]$
2539. $\text{Int}[(g_)+(h_)(x_))*\text{Sqrt}[(d_)+(e_)(x_)+(f_)*\text{Sqrt}[(a_)+(b_)(x_)+(c_)(x_)^2]], x_Symbol] \rightarrow \text{Simp}[2*((f*(5*b*c*g^2 - 2*b^2*g*h - 3*a*c*g*h + 2*a*b*h^2) + c*f*(10*c*g^2 - b*g*h + a*h^2)*x + 9*c^2*f*g*h*x^2 + 3*c^2*f*h^2*x^3 - (e*g - d*h)*(5*c*g - 2*b*h + c*h*x)*\text{Sqrt}[a + b*x + c*x^2])/(15*c^2*f*(g + h*x)))*\text{Sqrt}[d + e*x + f*\text{Sqrt}[a + b*x + c*x^2]], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x] \&\& \text{EqQ}[(e*g - d*h)^2 - f^2*(c*g^2 - b*g*h + a*h^2), 0] \&\& \text{EqQ}[2*e^2*g - 2*d*e*h - f^2*(2*c*g - b*h), 0]$
2540. $\text{Int}[(u_)+(f_)((j_)+(k_)*\text{Sqrt}[v_]))^{(n_)}*((g_)+(h_)(x_))^{(m_)}, x_Symbol] \rightarrow \text{Int}[(g + h*x)^m*(\text{ExpandToSum}[u + f*j, x] + f*k*\text{Sqrt}[\text{ExpandToSum}[v, x]])^n, x] /; \text{FreeQ}\{f, g, h, j, k, m, n\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{QuadraticQ}[v, x] \&\& !(\text{LinearMatchQ}[u, x] \&\& \text{QuadraticMatchQ}[v, x] \&\& (\text{EqQ}[j, 0] \parallel \text{EqQ}[f, 1])) \&\& \text{EqQ}[(\text{Coefficient}[u, x, 1]*g - h*(\text{Coefficient}[u, x, 0] + f*j))^2 - f^2*k^2*(\text{Coefficient}[v, x, 2]*g^2 - \text{Coefficient}[v, x, 1]*g*h + \text{Coefficient}[v, x, 0]*h^2), 0]$
2541. $\text{Int}[(g_)+(h_)((d_)+(e_)(x_)+(f_)*\text{Sqrt}[(a_)+(b_)(x_)+(c_)(x_)^2]))^{(n_)}^{(p_)}, x_Symbol] \rightarrow \text{Simp}[2 \text{ Subst}[\text{Int}[(g + h*x^n)^p*((d^2*e - (b*d - a*e)*f^2 - (2*d*e - b*f^2)*x + e*x^2)/(-2*d*e + b*f^2 + 2*e*x)^2), x], x, d + e*x + f*\text{Sqrt}[a + b*x + c*x^2]], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, n\}, x] \&\& \text{EqQ}[e^2 - c*f^2, 0] \&\& \text{IntegerQ}[p]$
2542. $\text{Int}[(g_)+(h_)((d_)+(e_)(x_)+(f_)*\text{Sqrt}[(a_)+(c_)(x_)^2]))^{(n_)}^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/(2*e) \text{ Subst}[\text{Int}[(g + h*x^n)^p*((d^2 + a*f^2 - 2*d*x + x^2)/(d - x)^2), x], x, d + e*x + f*\text{Sqrt}[a + c*x^2]], x] /; \text{FreeQ}\{a, c, d, e, f, g, h, n\}, x] \&\& \text{EqQ}[e^2 - c*f^2, 0] \&\& \text{IntegerQ}[p]$
2543. $\text{Int}[(g_)+(h_)((u_)+(f_)*\text{Sqrt}[v_]))^{(n_)}^{(p_)}, x_Symbol] \rightarrow \text{Int}[(g + h*(\text{ExpandToSum}[u, x] + f*\text{Sqrt}[\text{ExpandToSum}[v, x]])^n)^p, x] /;$

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FreeQ[{f, g, h, n}, x] && LinearQ[u, x] && QuadraticQ[v, x] && !(LinearMatchQ[u, x] && QuadraticMatchQ[v, x]) && EqQ[Coefficient[u, x, 1]^2 - Coefficient[v, x, 2]*f^2, 0] && IntegerQ[p]

2544. Int[((g_.) + (h_.)*(x_))^(m_.)*((e_.)*(x_) + (f_.)*Sqrt[(a_.) + (c_.)*(x_)^2])^(n_.), x_Symbol] := Simp[1/(2^(m + 1)*e^(m + 1)) Subst[Int[x^(n - m - 2)*(a*f^2 + x^2)*((-a)*f^2*h + 2*e*g*x + h*x^2)^m, x], x, e*x + f*Sqrt[a + c*x^2]], x] /; FreeQ[{a, c, e, f, g, h, n}, x] && EqQ[e^2 - c*f^2, 0] && IntegerQ[m]

2545. Int[(x_)^(p_.)*((g_) + (i_.)*(x_)^2)^(m_.)*((e_.)*(x_) + (f_.)*Sqrt[(a_.) + (c_.)*(x_)^2])^(n_.), x_Symbol] := Simp[(1/(2^(2*m + p + 1)*e^(p + 1)*f^(2*m)))*(i/c)^m Subst[Int[x^(n - 2*m - p - 2)*((-a)*f^2 + x^2)^p*(a*f^2 + x^2)^(2*m + 1), x], x, e*x + f*Sqrt[a + c*x^2]], x] /; FreeQ[{a, c, e, f, g, i, n}, x] && EqQ[e^2 - c*f^2, 0] && EqQ[c*g - a*i, 0] && IntegersQ[p, 2*m] && (IntegerQ[m] || GtQ[i/c, 0])

2546. Int[((g_.) + (h_.)*(x_) + (i_.)*(x_)^2)^(m_.)*((d_.) + (e_.)*(x_) + (f_.)*Sqrt[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2])^(n_.), x_Symbol] := Simp[(2/f^(2*m))*(i/c)^m Subst[Int[x^n*((d^2*e - (b*d - a*e)*f^2 - (2*d*e - b*f^2)*x + e*x^2)^(2*m + 1)/(-2*d*e + b*f^2 + 2*e*x)^(2*(m + 1))), x], x, d + e*x + f*Sqrt[a + b*x + c*x^2]], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, n}, x] && EqQ[e^2 - c*f^2, 0] && EqQ[c*g - a*i, 0] && EqQ[c*h - b*i, 0] && IntegerQ[2*m] && (IntegerQ[m] || GtQ[i/c, 0])

2547. Int[((g_) + (i_.)*(x_)^2)^(m_.)*((d_.) + (e_.)*(x_) + (f_.)*Sqrt[(a_.) + (c_.)*(x_)^2])^(n_.), x_Symbol] := Simp[(1/(2^(2*m + 1)*e*f^(2*m)))*(i/c)^m Subst[Int[x^n*((d^2 + a*f^2 - 2*d*x + x^2)^(2*m + 1)/(-d + x)^(2*(m + 1))), x], x, d + e*x + f*Sqrt[a + c*x^2]], x] /; FreeQ[{a, c, d, e, f, g, i, n}, x] && EqQ[e^2 - c*f^2, 0] && EqQ[c*g - a*i, 0] && IntegerQ[2*m] && (IntegerQ[m] || GtQ[i/c, 0])

2548. Int[((g_.) + (h_.)*(x_) + (i_.)*(x_)^2)^(m_.)*((d_.) + (e_.)*(x_) + (f_.)*Sqrt[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2])^(n_.), x_Symbol] := Simp[(i/c)^(m - 1/2)*(Sqrt[g + h*x + i*x^2]/Sqrt[a + b*x + c*x^2]) Int[(a + b*x + c*x^2)^m*(d + e*x + f*Sqrt[a + b*x + c*x^2])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, n}, x] && EqQ[e^2 - c*f^2, 0] && EqQ[c*

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- $g - a*i, 0] \&\& \text{EqQ}[c*h - b*i, 0] \&\& \text{IGtQ}[m + 1/2, 0] \&\& !\text{GtQ}[i/c, 0]$
2549.  $\text{Int}[\left((g_{\_}) + (i_{\_}) \cdot (x_{\_})^2\right)^{m_{\_}} \cdot \left((d_{\_}) + (e_{\_}) \cdot (x_{\_}) + (f_{\_}) \cdot \sqrt{(a_{\_}) + (c_{\_}) \cdot (x_{\_})^2}\right)^{n_{\_}}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\left(\frac{i/c}{\sqrt{a + c \cdot x^2}}\right)^{m - 1/2} \cdot \left(\frac{\sqrt{g + i \cdot x^2}}{\sqrt{a + c \cdot x^2}}\right) \cdot \text{Int}\left[(a + c \cdot x^2)^m \cdot (d + e \cdot x + f \cdot \sqrt{a + c \cdot x^2})^n, x\right], x\right] /;$ 
 $\text{FreeQ}\{a, c, d, e, f, g, i, n\}, x] \&\& \text{EqQ}[e^2 - c \cdot f^2, 0] \&\& \text{EqQ}[c \cdot g - a \cdot i, 0] \&\& \text{IGtQ}[m + 1/2, 0] \&\& !\text{GtQ}[i/c, 0]$
2550.  $\text{Int}[\left((g_{\_}) + (h_{\_}) \cdot (x_{\_}) + (i_{\_}) \cdot (x_{\_})^2\right)^{m_{\_}} \cdot \left((d_{\_}) + (e_{\_}) \cdot (x_{\_}) + (f_{\_}) \cdot \sqrt{(a_{\_}) + (b_{\_}) \cdot (x_{\_}) + (c_{\_}) \cdot (x_{\_})^2}\right)^{n_{\_}}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\left(\frac{i/c}{\sqrt{a + b \cdot x + c \cdot x^2}}\right)^{m + 1/2} \cdot \left(\frac{\sqrt{g + h \cdot x + i \cdot x^2}}{\sqrt{a + b \cdot x + c \cdot x^2}}\right) \cdot \text{Int}\left[(a + b \cdot x + c \cdot x^2)^m \cdot (d + e \cdot x + f \cdot \sqrt{a + b \cdot x + c \cdot x^2})^n, x\right], x\right] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f, g, h, i, n\}, x] \&\& \text{EqQ}[e^2 - c \cdot f^2, 0] \&\& \text{EqQ}[c \cdot g - a \cdot i, 0] \&\& \text{EqQ}[c \cdot h - b \cdot i, 0] \&\& \text{ILtQ}[m - 1/2, 0] \&\& !\text{GtQ}[i/c, 0]$
2551.  $\text{Int}[\left((g_{\_}) + (i_{\_}) \cdot (x_{\_})^2\right)^{m_{\_}} \cdot \left((d_{\_}) + (e_{\_}) \cdot (x_{\_}) + (f_{\_}) \cdot \sqrt{(a_{\_}) + (c_{\_}) \cdot (x_{\_})^2}\right)^{n_{\_}}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\left(\frac{i/c}{\sqrt{a + c \cdot x^2}}\right)^{m + 1/2} \cdot \left(\frac{\sqrt{g + i \cdot x^2}}{\sqrt{a + c \cdot x^2}}\right) \cdot \text{Int}\left[(a + c \cdot x^2)^m \cdot (d + e \cdot x + f \cdot \sqrt{a + c \cdot x^2})^n, x\right], x\right] /;$ 
 $\text{FreeQ}\{a, c, d, e, f, g, i, n\}, x] \&\& \text{EqQ}[e^2 - c \cdot f^2, 0] \&\& \text{EqQ}[c \cdot g - a \cdot i, 0] \&\& \text{ILtQ}[m - 1/2, 0] \&\& !\text{GtQ}[i/c, 0]$
2552.  $\text{Int}[\left((u_{\_}) + (f_{\_}) \cdot \left((j_{\_}) + (k_{\_}) \cdot \sqrt{v_{\_}}\right)\right)^{n_{\_}} \cdot (w_{\_})^{m_{\_}}, x_{\text{Symbol}}] \rightarrow \text{Int}\left[\text{ExpandToSum}[w, x]^m \cdot \left(\text{ExpandToSum}[u + f \cdot j, x] + f \cdot k \cdot \sqrt{\text{ExpandToSum}[v, x]}\right)^n, x\right] /;$ 
 $\text{FreeQ}\{f, j, k, m, n\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{QuadraticQ}\{v, w\}, x] \&\& !(\text{LinearMatchQ}[u, x] \&\& \text{QuadraticMatchQ}\{v, w\}, x] \&\& (\text{EqQ}[j, 0] \parallel \text{EqQ}[f, 1])) \&\& \text{EqQ}[\text{Coefficient}[u, x, 1]^2 - \text{Coefficient}[v, x, 2] \cdot f^2 \cdot k^2, 0]$
2553.  $\text{Int}\left[\frac{1}{\left((a_{\_}) + (b_{\_}) \cdot (x_{\_})^{n_{\_}}\right) \cdot \sqrt{(c_{\_}) \cdot (x_{\_})^2 + (d_{\_}) \cdot \left((a_{\_}) + (b_{\_}) \cdot (x_{\_})^{n_{\_}}\right)^{p_{\_}}}\right]}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{1}{a} \cdot \text{Subst}\left[\text{Int}\left[\frac{1}{1 - c \cdot x^2}\right], x, \frac{x}{\sqrt{c \cdot x^2 + d \cdot (a + b \cdot x^n)^{2/n}}}\right], x\right] /;$ 
 $\text{FreeQ}\{a, b, c, d, n\}, x] \&\& \text{EqQ}[p, 2/n]$
2554.  $\text{Int}\left[\sqrt{(a_{\_}) + (b_{\_}) \cdot \sqrt{(c_{\_}) + (d_{\_}) \cdot (x_{\_})^2}}\right]}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[2 \cdot b^2 \cdot d \cdot (x^3 / (3 \cdot (a + b \cdot \sqrt{c + d \cdot x^2})^{3/2})), x\right] + \text{Simp}\left[2 \cdot a \cdot (x / \sqrt{a + b \cdot \sqrt{c + d \cdot x^2}})\right], x] /;$ 
 $\text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[a^2 - b^2 \cdot$

- c, 0]
2555.  $\text{Int}[\text{Sqrt}[(a_.)*(x_)^2 + (b_.)*(x_)*\text{Sqrt}[(c_) + (d_.)*(x_)^2]]/((x_)*\text{Sqrt}[(c_) + (d_.)*(x_)^2]), x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[2]*(b/a) \text{ Subst}[\text{Int}[1/\text{Sqrt}[1 + x^2/a], x], x, a*x + b*\text{Sqrt}[c + d*x^2]], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[a^2 - b^2*d, 0] \&\& \text{EqQ}[b^2*c + a, 0]$
2556.  $\text{Int}[\text{Sqrt}[(e_.)*(x_)*((a_.)*(x_) + (b_.)*\text{Sqrt}[(c_) + (d_.)*(x_)^2])]/((x_)*\text{Sqrt}[(c_) + (d_.)*(x_)^2]), x\_Symbol] \rightarrow \text{Int}[\text{Sqrt}[a*e*x^2 + b*e*x*\text{Sqrt}[c + d*x^2]]/(x*\text{Sqrt}[c + d*x^2]), x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[a^2 - b^2*d, 0] \&\& \text{EqQ}[b^2*c*e + a, 0]$
2557.  $\text{Int}[\text{Sqrt}[(c_.)*(x_)^2 + (d_.)*\text{Sqrt}[(a_) + (b_.)*(x_)^4]]/\text{Sqrt}[(a_) + (b_.)*(x_)^4], x\_Symbol] \rightarrow \text{Simp}[d \text{ Subst}[\text{Int}[1/(1 - 2*c*x^2), x], x, x/\text{Sqrt}[c*x^2 + d*\text{Sqrt}[a + b*x^4]]], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2 - b*d^2, 0]$
2558.  $\text{Int}[(((c_.) + (d_.)*(x_))^{(m_.)}*\text{Sqrt}[(b_.)*(x_)^2 + \text{Sqrt}[(a_) + (e_.)*(x_)^4]])/\text{Sqrt}[(a_) + (e_.)*(x_)^4], x\_Symbol] \rightarrow \text{Simp}[(1 - I)/2 \text{ Int}[(c + d*x)^m/\text{Sqrt}[\text{Sqrt}[a] - I*b*x^2], x], x] + \text{Simp}[(1 + I)/2 \text{ Int}[(c + d*x)^m/\text{Sqrt}[\text{Sqrt}[a] + I*b*x^2], x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x] \&\& \text{EqQ}[e, b^2] \&\& \text{GtQ}[a, 0]$
2559.  $\text{Int}[1/(((c_) + (d_.)*(x_))*\text{Sqrt}[(a_) + (b_.)*(x_)^3]), x\_Symbol] \rightarrow \text{Simp}[2/(3*c) \text{ Int}[1/\text{Sqrt}[a + b*x^3], x], x] + \text{Simp}[1/(3*c) \text{ Int}[(c - 2*d*x)/((c + d*x)*\text{Sqrt}[a + b*x^3]), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b*c^3 - 4*a*d^3, 0]$
2560.  $\text{Int}[1/(((c_) + (d_.)*(x_))*\text{Sqrt}[(a_) + (b_.)*(x_)^3]), x\_Symbol] \rightarrow \text{Simp}[-6*a*(d^3/(c*(b*c^3 - 28*a*d^3))) \text{ Int}[1/\text{Sqrt}[a + b*x^3], x], x] + \text{Simp}[1/(c*(b*c^3 - 28*a*d^3)) \text{ Int}[\text{Simp}[c*(b*c^3 - 22*a*d^3) + 6*a*d^4*x, x]/((c + d*x)*\text{Sqrt}[a + b*x^3]), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b^2*c^6 - 20*a*b*c^3*d^3 - 8*a^2*d^6, 0]$
2561.  $\text{Int}[1/(((c_) + (d_.)*(x_))*\text{Sqrt}[(a_) + (b_.)*(x_)^3]), x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b/a, 3]\}, \text{Simp}[-q/((1 + \text{Sqrt}[3])*d - c*q) \text{ Int}[1/\text{Sqrt}[a +$

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b*x^3], x], x] + Simp[d/((1 + Sqrt[3])*d - c*q) Int[(1 + Sqrt[3] + q
*x)/((c + d*x)*Sqrt[a + b*x^3]), x], x]] /; FreeQ[{a, b, c, d}, x] &&
NeQ[b^2*c^6 - 20*a*b*c^3*d^3 - 8*a^2*d^6, 0]

2562. Int[((e_) + (f_)*(x_))/(((c_) + (d_)*(x_))*Sqrt[(a_) + (b_)*(x_)^3]
), x_Symbol] := Simp[2*(e/d) Subst[Int[1/(1 + 3*a*x^2), x], x, (1 +
2*d*(x/c))/Sqrt[a + b*x^3]], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ
[d*e - c*f, 0] && EqQ[b*c^3 - 4*a*d^3, 0] && EqQ[2*d*e + c*f, 0]

2563. Int[((e_) + (f_)*(x_))/(((c_) + (d_)*(x_))*Sqrt[(a_) + (b_)*(x_)^3]
), x_Symbol] := Simp[-2*(e/d) Subst[Int[1/(9 - a*x^2), x], x, (1 + f
*(x/e))^2/Sqrt[a + b*x^3]], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[
d*e - c*f, 0] && EqQ[b*c^3 + 8*a*d^3, 0] && EqQ[2*d*e + c*f, 0]

2564. Int[((e_) + (f_)*(x_))/(((c_) + (d_)*(x_))*Sqrt[(a_) + (b_)*(x_)^3]
)], x_Symbol] := Simp[(2*d*e + c*f)/(3*c*d) Int[1/Sqrt[a + b*x^3], x
], x] + Simp[(d*e - c*f)/(3*c*d) Int[(c - 2*d*x)/((c + d*x)*Sqrt[a +
b*x^3]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[d*e - c*f, 0]
&& (EqQ[b*c^3 - 4*a*d^3, 0] || EqQ[b*c^3 + 8*a*d^3, 0]) && NeQ[2*d*e +
c*f, 0]

2565. Int[((e_) + (f_)*(x_))/(((c_) + (d_)*(x_))*Sqrt[(a_) + (b_)*(x_)^3]
), x_Symbol] := With[{k = Simplify[(d*e + 2*c*f)/(c*f)]}, Simp[(1 + k)
*(e/d) Subst[Int[1/(1 + (3 + 2*k)*a*x^2), x], x, (1 + (1 + k)*d*(x/c)
)/Sqrt[a + b*x^3]], x]] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[d*e -
c*f, 0] && EqQ[b^2*c^6 - 20*a*b*c^3*d^3 - 8*a^2*d^6, 0] && EqQ[6*a*d^4
*e - c*f*(b*c^3 - 22*a*d^3), 0]

2566. Int[((e_) + (f_)*(x_))/(((c_) + (d_)*(x_))*Sqrt[(a_) + (b_)*(x_)^3]
)], x_Symbol] := Simp[-(6*a*d^4*e - c*f*(b*c^3 - 22*a*d^3))/(c*d*(b*c^
3 - 28*a*d^3)) Int[1/Sqrt[a + b*x^3], x], x] + Simp[(d*e - c*f)/(c*d
*(b*c^3 - 28*a*d^3)) Int[(c*(b*c^3 - 22*a*d^3) + 6*a*d^4*x)/((c + d*
x)*Sqrt[a + b*x^3]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[d*e
- c*f, 0] && EqQ[b^2*c^6 - 20*a*b*c^3*d^3 - 8*a^2*d^6, 0] && NeQ[6*a*
d^4*e - c*f*(b*c^3 - 22*a*d^3), 0]

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2567. $\text{Int}[\frac{(e_+ + (f_+)(x_+))}{((c_+ + (d_+)(x_+))\sqrt{(a_+ + (b_+)(x_+)^3})}, x_Symbol] \rightarrow \text{With}[\{q = \text{Simplify}[(1 + \sqrt{3})(f/e)]\}, \text{Simp}[4*3^{(1/4)}\sqrt{2 - \sqrt{3}}*f*(1 + qx)(\sqrt{(1 - qx + q^2x^2)/(1 + \sqrt{3} + qx)^2})/(q\sqrt{a + b*x^3}\sqrt{(1 + qx)/(1 + \sqrt{3} + qx)^2})] \text{Subst}[\text{Int}[1/((1 - \sqrt{3})d - cq + ((1 + \sqrt{3})d - cq)x)\sqrt{1 - x^2}\sqrt{7 - 4\sqrt{3} + x^2}], x], x, (-1 + \sqrt{3} - qx)/(1 + \sqrt{3} + qx)], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[d*e - c*f, 0] \&\& \text{EqQ}[b*e^3 - 2*(5 + 3*\sqrt{3})*a*f^3, 0] \&\& \text{NeQ}[b*c^3 - 2*(5 - 3*\sqrt{3})*a*d^3, 0]$
2568. $\text{Int}[\frac{(e_+ + (f_+)(x_+))}{((c_+ + (d_+)(x_+))\sqrt{(a_+ + (b_+)(x_+)^3})}, x_Symbol] \rightarrow \text{With}[\{q = \text{Simplify}[(1 - \sqrt{3})(f/e)]\}, \text{Simp}[4*3^{(1/4)}\sqrt{2 + \sqrt{3}}*f*(1 - qx)(\sqrt{(1 + qx + q^2x^2)/(1 - \sqrt{3} - qx)^2})/(q\sqrt{a + b*x^3}\sqrt{-(1 - qx)/(1 - \sqrt{3} - qx)^2})] \text{Subst}[\text{Int}[1/((1 + \sqrt{3})d + cq + ((1 - \sqrt{3})d + cq)x)\sqrt{1 - x^2}\sqrt{7 + 4\sqrt{3} + x^2}], x], x, (1 + \sqrt{3} - qx)/(-1 + \sqrt{3} + qx)], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[d*e - c*f, 0] \&\& \text{EqQ}[b*e^3 - 2*(5 - 3*\sqrt{3})*a*f^3, 0] \&\& \text{NeQ}[b*c^3 - 2*(5 + 3*\sqrt{3})*a*d^3, 0]$
2569. $\text{Int}[\frac{(e_+ + (f_+)(x_+))}{((c_+ + (d_+)(x_+))\sqrt{(a_+ + (b_+)(x_+)^3})}, x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[b/a, 3]\}, \text{Simp}[\frac{(1 + \sqrt{3})f - eq}{(1 + \sqrt{3})d - cq} \text{Int}[1/\sqrt{a + b*x^3}, x], x] + \text{Simp}[\frac{d*e - c*f}{((1 + \sqrt{3})d - cq)} \text{Int}[(1 + \sqrt{3} + qx)/((c + d*x)\sqrt{a + b*x^3}), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[d*e - c*f, 0] \&\& \text{NeQ}[b^2*c^6 - 20*a*b*c^3*d^3 - 8*a^2*d^6, 0] \&\& \text{NeQ}[b^2*e^6 - 20*a*b*e^3*f^3 - 8*a^2*f^6, 0]$
2570. $\text{Int}[\frac{(f_+ + (g_+)(x_+) + (h_+)(x_+)^2)}{((c_+ + (d_+)(x_+) + (e_+)(x_+)^2)\sqrt{(a_+ + (b_+)(x_+)^3})}, x_Symbol] \rightarrow \text{Simp}[-2*g*h \text{Subst}[\text{Int}[1/(2*e*h - (b*d*f - 2*a*e*h)*x^2), x], x, (1 + 2*h*(x/g))/\sqrt{a + b*x^3}], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b*d*f - 2*a*e*h, 0] \&\& \text{EqQ}[b*g^3 - 8*a*h^3, 0] \&\& \text{EqQ}[g^2 + 2*f*h, 0] \&\& \text{EqQ}[b*d*f + b*c*g - 4*a*e*h, 0]$
2571. $\text{Int}[\frac{(f_+ + (g_+)(x_+) + (h_+)(x_+)^2)}{((c_+ + (e_+)(x_+)^2)\sqrt{(a_+ + (b_+)(x_+)^3})}, x_Symbol] \rightarrow \text{Simp}[-g/e \text{Subst}[\text{Int}[1/(1 + a*x^2),$

- $x], x, (1 + 2*h*(x/g))/\text{Sqrt}[a + b*x^3], x] /; \text{FreeQ}\{a, b, c, e, f, g, h\}, x] \&\& \text{EqQ}[b*g^3 - 8*a*h^3, 0] \&\& \text{EqQ}[g^2 + 2*f*h, 0] \&\& \text{EqQ}[b*c*g - 4*a*e*h, 0]$
2572. $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^3]/((c_) + (d_)*(x_)), x_Symbol] \rightarrow \text{Simp}[b/d \text{ Int}[x^2/\text{Sqrt}[a + b*x^3], x], x] + \text{Simp}[b*(c/d^3) \text{ Int}[(c - d*x)/\text{Sqrt}[a + b*x^3], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b*c^3 - a*d^3, 0]$
2573. $\text{Int}[\text{Sqrt}[(a_) + (b_)*(x_)^3]/((c_) + (d_)*(x_)), x_Symbol] \rightarrow \text{Simp}[b/d \text{ Int}[x^2/\text{Sqrt}[a + b*x^3], x], x] + (-\text{Simp}[(b*c^3 - a*d^3)/d^3 \text{ Int}[1/((c + d*x)*\text{Sqrt}[a + b*x^3]), x], x] + \text{Simp}[b*(c/d^3) \text{ Int}[(c - d*x)/\text{Sqrt}[a + b*x^3], x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c^3 - a*d^3, 0]$
2574. $\text{Int}[1/(((c_) + (d_)*(x_))*((a_) + (b_)*(x_)^3)^{(1/3)}), x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[3]*(\text{ArcTan}[(1 - 2^{(1/3)}*\text{Rt}[b, 3]*((c - d*x)/(d*(a + b*x^3)^{(1/3)})))/\text{Sqrt}[3]]/(2^{(4/3)}*\text{Rt}[b, 3]*c)), x] + (\text{Simp}[\text{Log}[(c + d*x)^2*(c - d*x)]/(2^{(7/3)}*\text{Rt}[b, 3]*c), x] - \text{Simp}[(3*\text{Log}[\text{Rt}[b, 3]*(c - d*x) + 2^{(2/3)}*d*(a + b*x^3)^{(1/3)}])/(2^{(7/3)}*\text{Rt}[b, 3]*c), x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b*c^3 + a*d^3, 0]$
2575. $\text{Int}[1/(((c_) + (d_)*(x_))*((a_) + (b_)*(x_)^3)^{(1/3)}), x_Symbol] \rightarrow \text{Simp}[1/(2*c) \text{ Int}[1/(a + b*x^3)^{(1/3)}, x], x] + \text{Simp}[1/(2*c) \text{ Int}[(c - d*x)/((c + d*x)*(a + b*x^3)^{(1/3)}), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[2*b*c^3 - a*d^3, 0]$
2576. $\text{Int}[((e_) + (f_)*(x_))/(((c_) + (d_)*(x_))*((a_) + (b_)*(x_)^3)^{(1/3)}), x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[3]*f*(\text{ArcTan}[(1 + 2*\text{Rt}[b, 3]*((2*c + d*x)/(d*(a + b*x^3)^{(1/3)})))/\text{Sqrt}[3]]/(\text{Rt}[b, 3]*d)), x] + (\text{Simp}[(f*\text{Log}[c + d*x])/(\text{Rt}[b, 3]*d), x] - \text{Simp}[(3*f*\text{Log}[\text{Rt}[b, 3]*(2*c + d*x) - d*(a + b*x^3)^{(1/3)}])/(2*\text{Rt}[b, 3]*d), x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[d*e + c*f, 0] \&\& \text{EqQ}[2*b*c^3 - a*d^3, 0]$
2577. $\text{Int}[((e_) + (f_)*(x_))/(((c_) + (d_)*(x_))*((a_) + (b_)*(x_)^3)^{(1/3)}), x_Symbol] \rightarrow \text{Simp}[f/d \text{ Int}[1/(a + b*x^3)^{(1/3)}, x], x] + \text{Simp}[(d*e - c*f)/d \text{ Int}[1/((c + d*x)*(a + b*x^3)^{(1/3)}), x], x] /; \text{FreeQ}\{$

a, b, c, d, e, f}, x]

2578. `Int[((a_) + (b_.)*(x_)^3)^(2/3)/((c_) + (d_.)*(x_)), x_Symbol] := Simp`
`[(a + b*x^3)^(2/3)/(2*d), x] + (Simp[1/d^2 Int[(a*d^2 + b*c^2*x)/((c`
`+ d*x)*(a + b*x^3)^(1/3)), x], x] - Simp[b*(c/d^2) Int[x/(a + b*x^3`
`)^(1/3), x], x]) /; FreeQ[{a, b, c, d}, x]`

2579. `Int[1/(((c_) + (d_.)*(x_))*((a_) + (b_.)*(x_)^3)^(2/3)), x_Symbol] :=`
`With[{q = Rt[b, 3]}, Simp[(-d)*(ArcTan[(1 + 2*q*(x/(a + b*x^3)^(1/3)))`
`/Sqrt[3]]/(2*Sqrt[3]*q^2*c^2)), x] + (Simp[Sqrt[3]*d*(ArcTan[(1 + 2*q*`
`((2*c + d*x)/(d*(a + b*x^3)^(1/3))))/Sqrt[3]]/(2*q^2*c^2)), x] - Simp[`
`d*(Log[c + d*x]/(2*q^2*c^2)), x] - Simp[d*(Log[q*x - (a + b*x^3)^(1/3)`
`]/(4*q^2*c^2)), x] + Simp[3*d*(Log[q*(2*c + d*x) - d*(a + b*x^3)^(1/3)`
`]/(4*q^2*c^2)), x]]) /; FreeQ[{a, b, c, d}, x] && EqQ[2*b*c^3 - a*d^3,`
`0]`

2580. `Int[(Px_)*(x_)^(m_.)*((c_) + (d_.)*(x_))^(q_)*((a_) + (b_.)*(x_)^3)^(p`
`_.), x_Symbol] := Int[ExpandIntegrand[(c^3 + d^3*x^3)^q*(a + b*x^3)^p,`
`x^m*(Px/(c^2 - c*d*x + d^2*x^2)^q), x], x] /; FreeQ[{a, b, c, d, m, p`
`}, x] && PolyQ[Px, x] && ILtQ[q, 0] && IntegerQ[m] && RationalQ[p] &&`
`EqQ[Denominator[p], 3]`

2581. `Int[(Px_.)*((c_) + (d_.)*(x_))^(q_)*((a_) + (b_.)*(x_)^3)^(p_.), x_Sym`
`bol] := Int[ExpandIntegrand[(c^3 + d^3*x^3)^q*(a + b*x^3)^p, Px/(c^2 -`
`c*d*x + d^2*x^2)^q, x], x] /; FreeQ[{a, b, c, d, p}, x] && PolyQ[Px,`
`x] && ILtQ[q, 0] && RationalQ[p] && EqQ[Denominator[p], 3]`

2582. `Int[(Px_)*(x_)^(m_.)*((c_) + (d_.)*(x_) + (e_.)*(x_)^2)^(q_)*((a_) + (`
`b_.)*(x_)^3)^(p_.), x_Symbol] := Simp[1/c^q Int[ExpandIntegrand[(c^3`
`- d^3*x^3)^q*(a + b*x^3)^p, x^m*(Px/(c - d*x)^q), x], x] /; FreeQ`
`[{a, b, c, d, e, m, p}, x] && PolyQ[Px, x] && EqQ[d^2 - c*e, 0] && ILt`
`Q[q, 0] && IntegerQ[m] && RationalQ[p] && EqQ[Denominator[p], 3]`

2583. `Int[(Px_.)*((c_) + (d_.)*(x_) + (e_.)*(x_)^2)^(q_)*((a_) + (b_.)*(x_)^`
`3)^(p_.), x_Symbol] := Simp[1/c^q Int[ExpandIntegrand[(c^3 - d^3*x^3)`
`)^q*(a + b*x^3)^p, Px/(c - d*x)^q, x], x] /; FreeQ[{a, b, c, d, e,`
`p}, x] && PolyQ[Px, x] && EqQ[d^2 - c*e, 0] && ILtQ[q, 0] && Rational`

$Q[p] \ \&\& \ \text{EqQ}[\text{Denominator}[p], 3]$

2584. $\text{Int}[\left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})} \cdot \left((a_{_}) + (b_{_}) \cdot (x_{_})^{(nn_{_})}\right)^{(p_{_})}, x_{_} \text{Symbol}] \rightarrow \text{Int}[\text{ExpandToSum}[(c - d \cdot x^n)^{-q}], x] \cdot \left((a + b \cdot x^{nn})^p / (c^2 - d^2 \cdot x^{(2 \cdot n)})^{-q}\right), x] \ /; \text{FreeQ}[\{a, b, c, d, n, nn, p\}, x] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{ILtQ}[q, 0] \ \&\& \ \text{IGtQ}[\text{Log}[2, nn/n], 0]$
2585. $\text{Int}[\left((e_{_}) \cdot (x_{_})\right)^{(m_{_})} \cdot \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})}\right)^{(q_{_})} \cdot \left((a_{_}) + (b_{_}) \cdot (x_{_})^{(nn_{_})}\right)^{(p_{_})}, x_{_} \text{Symbol}] \rightarrow \text{Simp}[(e \cdot x)^m / x^m \ \text{Int}[x^m \cdot \text{ExpandToSum}[(c - d \cdot x^n)^{-q}], x] \cdot \left((a + b \cdot x^{nn})^p / (c^2 - d^2 \cdot x^{(2 \cdot n)})^{-q}\right), x], x] \ /; \text{FreeQ}[\{a, b, c, d, e, m, n, nn, p\}, x] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{ILtQ}[q, 0] \ \&\& \ \text{IGtQ}[\text{Log}[2, nn/n], 0]$
2586. $\text{Int}[(x_{_})^{(m_{_})} / \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})} + (e_{_}) \cdot \text{Sqrt}[(a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})}]\right), x_{_} \text{Symbol}] \rightarrow \text{Simp}[1/n \ \text{Subst}[\text{Int}[x^{(m+1)/n - 1} / (c + d \cdot x + e \cdot \text{Sqrt}[a + b \cdot x]), x], x, x^n], x] \ /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{EqQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{IntegerQ}[(m+1)/n]$
2587. $\text{Int}[(u_{_}) / \left((c_{_}) + (d_{_}) \cdot (x_{_})^{(n_{_})} + (e_{_}) \cdot \text{Sqrt}[(a_{_}) + (b_{_}) \cdot (x_{_})^{(n_{_})}]\right), x_{_} \text{Symbol}] \rightarrow \text{Simp}[c \ \text{Int}[u / (c^2 - a \cdot e^2 + c \cdot d \cdot x^n), x], x] - \text{Simp}[a \cdot e \ \text{Int}[u / ((c^2 - a \cdot e^2 + c \cdot d \cdot x^n) \cdot \text{Sqrt}[a + b \cdot x^n]), x], x] \ /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \ \&\& \ \text{EqQ}[b \cdot c - a \cdot d, 0]$
2588. $\text{Int}[(u_{_})^{(m_{_})}, x_{_} \text{Symbol}] \rightarrow \text{With}[\{c = \text{Simplify}[\text{D}[u, x]]\}, \text{Simp}[1/c \ \text{Subst}[\text{Int}[x^m, x], x, u], x]] \ /; \text{FreeQ}[m, x] \ \&\& \ \text{PiecewiseLinearQ}[u, x]$
2589. $\text{Int}[(v_{_}) / (u_{_}), x_{_} \text{Symbol}] \rightarrow \text{With}[\{a = \text{Simplify}[\text{D}[u, x]], b = \text{Simplify}[\text{D}[v, x]]\}, \text{Simp}[b \cdot (x/a), x] - \text{Simp}[(b \cdot u - a \cdot v) / a \ \text{Int}[1/u, x], x] \ /; \text{NeQ}[b \cdot u - a \cdot v, 0]] \ /; \text{PiecewiseLinearQ}[u, v, x]$
2590. $\text{Int}[(v_{_})^{(n_{_})} / (u_{_}), x_{_} \text{Symbol}] \rightarrow \text{With}[\{a = \text{Simplify}[\text{D}[u, x]], b = \text{Simplify}[\text{D}[v, x]]\}, \text{Simp}[v^n / (a \cdot n), x] - \text{Simp}[(b \cdot u - a \cdot v) / a \ \text{Int}[v^{(n-1)} / u, x], x] \ /; \text{NeQ}[b \cdot u - a \cdot v, 0]] \ /; \text{PiecewiseLinearQ}[u, v, x] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{NeQ}[n, 1]$

2591. `Int[1/((u_)*(v_)), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[b/(b*u - a*v) Int[1/v, x], x] - Simp[a/(b*u - a*v) Int[1/u, x], x] /; NeQ[b*u - a*v, 0]] /; PiecewiseLinearQ[u, v, x]`
2592. `Int[1/((u_)*Sqrt[v_]), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[2*(ArcTan[Sqrt[v]/Rt[(b*u - a*v)/a, 2]]/(a*Rt[(b*u - a*v)/a, 2])), x] /; NeQ[b*u - a*v, 0] && PosQ[(b*u - a*v)/a]] /; PiecewiseLinearQ[u, v, x]`
2593. `Int[1/((u_)*Sqrt[v_]), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[-2*(ArcTanh[Sqrt[v]/Rt[-(b*u - a*v)/a, 2]]/(a*Rt[-(b*u - a*v)/a, 2])), x] /; NeQ[b*u - a*v, 0] && NegQ[(b*u - a*v)/a]] /; PiecewiseLinearQ[u, v, x]`
2594. `Int[(v_)^(n_)/(u_), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[v^(n + 1)/((n + 1)*(b*u - a*v)), x] - Simp[a*((n + 1)/((n + 1)*(b*u - a*v))) Int[v^(n + 1)/u, x], x] /; NeQ[b*u - a*v, 0]] /; PiecewiseLinearQ[u, v, x] && LtQ[n, -1]`
2595. `Int[(v_)^(n_)/(u_), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[(v^(n + 1)/((n + 1)*(b*u - a*v))]*Hypergeometric2F1[1, n + 1, n + 2, (-a)*(v/(b*u - a*v))], x] /; NeQ[b*u - a*v, 0]] /; PiecewiseLinearQ[u, v, x] && !IntegerQ[n]`
2596. `Int[1/(Sqrt[u_]*Sqrt[v_]), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[(2/Rt[a*b, 2])*ArcTanh[Rt[a*b, 2]*(Sqrt[u]/(a*Sqrt[v]))], x] /; NeQ[b*u - a*v, 0] && PosQ[a*b]] /; PiecewiseLinearQ[u, v, x]`
2597. `Int[1/(Sqrt[u_]*Sqrt[v_]), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[(2/Rt[(-a)*b, 2])*ArcTan[Rt[(-a)*b, 2]*(Sqrt[u]/(a*Sqrt[v]))], x] /; NeQ[b*u - a*v, 0] && NegQ[a*b]] /; PiecewiseLinearQ[u, v, x]`

2598. `Int[(u_)^(m_)*(v_)^(n_), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[(-u^(m + 1))*(v^(n + 1))/((m + 1)*(b*u - a*v)), x] /; NeQ[b*u - a*v, 0]] /; FreeQ[{m, n}, x] && PiecewiseLinearQ[u, v, x] && EqQ[m + n + 2, 0] && NeQ[m, -1]`
2599. `Int[(u_)^(m_)*(v_)^(n_.), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[u^(m + 1)*(v^n/(a*(m + 1))), x] - Simp[b*(n/(a*(m + 1))) Int[u^(m + 1)*v^(n - 1), x], x] /; NeQ[b*u - a*v, 0]] /; FreeQ[{m, n}, x] && PiecewiseLinearQ[u, v, x] && NeQ[m, -1] && ((LtQ[m, -1] && GtQ[n, 0] && !(ILtQ[m + n, -2] && (FractionQ[m] || GeQ[2*n + m + 1, 0]))) || (IGtQ[n, 0] && IGtQ[m, 0] && LeQ[n, m]) || (IGtQ[n, 0] && !IntegerQ[m]) || (ILtQ[m, 0] && !IntegerQ[n]))`
2600. `Int[(u_)^(m_)*(v_)^(n_.), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[u^(m + 1)*(v^n/(a*(m + n + 1))), x] - Simp[n*((b*u - a*v)/(a*(m + n + 1))) Int[u^m*v^(n - 1), x], x] /; NeQ[b*u - a*v, 0]] /; PiecewiseLinearQ[u, v, x] && NeQ[m + n + 2, 0] && GtQ[n, 0] && NeQ[m + n + 1, 0] && !(IGtQ[m, 0] && (!IntegerQ[n] || LtQ[0, m, n])) && !ILtQ[m + n, -2]`
2601. `Int[(u_)^(m_)*(v_)^(n_), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[u^(m + 1)*(v^n/(a*(m + n + 1))), x] - Simp[n*((b*u - a*v)/(a*(m + n + 1))) Int[u^m*v^Simplify[n - 1], x], x] /; NeQ[b*u - a*v, 0]] /; PiecewiseLinearQ[u, v, x] && NeQ[m + n + 1, 0] && !RationalQ[n] && SumSimplerQ[n, -1]`
2602. `Int[(u_)^(m_)*(v_)^(n_), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[(-u^(m + 1))*(v^(n + 1))/((m + 1)*(b*u - a*v)), x] + Simp[b*((m + n + 2)/((m + 1)*(b*u - a*v))) Int[u^(m + 1)*v^n, x], x] /; NeQ[b*u - a*v, 0]] /; PiecewiseLinearQ[u, v, x] && NeQ[m + n + 2, 0] && LtQ[m, -1]`
2603. `Int[(u_)^(m_)*(v_)^(n_), x_Symbol] := With[{a = Simplify[D[u, x]], b = Simplify[D[v, x]]}, Simp[(-u^(m + 1))*(v^(n + 1))/((m + 1)*(b*u - a*v)), x] + Simp[b*((m + n + 2)/((m + 1)*(b*u - a*v))) Int[u^Simplify[m + 1]*v^n, x], x] /; NeQ[b*u - a*v, 0]] /; PiecewiseLinearQ[u, v, x] && !RationalQ[m] && SumSimplerQ[m, 1]`

2604. $\text{Int}[(u)^{(m)}(v)^{(n)}, x_Symbol] \rightarrow \text{With}[\{a = \text{Simplify}[D[u, x]], b = \text{Simplify}[D[v, x]]\}, \text{Simp}[u^m(v^{(n+1)})/(b^{(n+1)}(b(u/(b^m u - a^m v))^{(n)})) * \text{Hypergeometric2F1}[-m, n+1, n+2, (-a)(v/(b^m u - a^m v))], x] /; \text{NeQ}[b^m u - a^m v, 0] /; \text{PiecewiseLinearQ}[u, v, x] \&\& \text{!IntegerQ}[m] \&\& \text{!IntegerQ}[n]$
2605. $\text{Int}[\text{Log}[a + (b)(x)](u)^{(n)}, x_Symbol] \rightarrow \text{With}[\{c = \text{Simplify}[D[u, x]]\}, \text{Simp}[u^n(a + b^m x)(\text{Log}[a + b^m x]/b), x] + (-\text{Int}[u^n, x] - \text{Simp}[c(n/b) \text{Int}[u^{(n-1)}(a + b^m x)\text{Log}[a + b^m x], x], x)] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{PiecewiseLinearQ}[u, x] \&\& \text{!LinearQ}[u, x] \&\& \text{GtQ}[n, 0]$
2606. $\text{Int}[\text{Log}[a + (b)(x)](u)^{(n)}((a + (b)(x))^{(m)}), x_Symbol] \rightarrow \text{With}[\{c = \text{Simplify}[D[u, x]]\}, \text{Simp}[u^n(a + b^m x)^{(m+1)}(\text{Log}[a + b^m x]/(b^{(m+1)})), x] + (-\text{Simp}[1/(m+1) \text{Int}[u^n(a + b^m x)^m, x], x] - \text{Simp}[c(n/(b^{(m+1)})) \text{Int}[u^{(n-1)}(a + b^m x)^{(m+1)}\text{Log}[a + b^m x], x], x)] /; \text{FreeQ}[\{a, b, m\}, x] \&\& \text{PiecewiseLinearQ}[u, x] \&\& \text{!LinearQ}[u, x] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[m, -1]$
2607. $\text{Int}[(b)(F)^{(g)((e) + (f)(x))}^{(n)}((c) + (d)(x))^{(m)}, x_Symbol] \rightarrow \text{Simp}[(c + d^m x)^m((b^m F^{(g(e + f^m x))})^n/(f^m g^n \text{Log}[F])), x] - \text{Simp}[d^m(m/(f^m g^n \text{Log}[F])) \text{Int}[(c + d^m x)^{(m-1)}(b^m F^{(g(e + f^m x))})^n, x], x] /; \text{FreeQ}[\{F, b, c, d, e, f, g, n\}, x] \&\& \text{GtQ}[m, 0] \&\& \text{IntegerQ}[2^m] \&\& \text{!TrueQ}[\$UseGamma]$
2608. $\text{Int}[(b)(F)^{(g)((e) + (f)(x))}^{(n)}((c) + (d)(x))^{(m)}, x_Symbol] \rightarrow \text{Simp}[(c + d^m x)^{(m+1)}((b^m F^{(g(e + f^m x))})^n/(d^{(m+1)})), x] - \text{Simp}[f^m g^n (\text{Log}[F]/(d^{(m+1)})) \text{Int}[(c + d^m x)^{(m+1)}(b^m F^{(g(e + f^m x))})^n, x], x] /; \text{FreeQ}[\{F, b, c, d, e, f, g, n\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{IntegerQ}[2^m] \&\& \text{!TrueQ}[\$UseGamma]$
2609. $\text{Int}[(F)^{(g)((e) + (f)(x))}/((c) + (d)(x)), x_Symbol] \rightarrow \text{Simp}[(F^{(g(e - c(f/d)))})/d * \text{ExpIntegralEi}[f^m g^m (c + d^m x)(\text{Log}[F]/d)], x] /; \text{FreeQ}[\{F, c, d, e, f, g\}, x] \&\& \text{!TrueQ}[\$UseGamma]$

2610. $\text{Int}[(F_)^{((g_)*(e_)+(f_)*(x_))}*((c_)+(d_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(-d)^m*(F^{(g*(e - c*(f/d))})/(f^{(m+1)}*g^{(m+1)}*\text{Log}[F]^{(m+1)}))*\text{Gamma}[m+1, (-f)*g*(\text{Log}[F]/d)*(c + d*x)], x] /; \text{FreeQ}[\{F, c, d, e, f, g\}, x] \ \&\& \ \text{IntegerQ}[m]$
2611. $\text{Int}[(F_)^{((g_)*(e_)+(f_)*(x_))}/\text{Sqrt}[(c_)+(d_)*(x_)], x_Symbol] \rightarrow \text{Simp}[2/d \ \text{Subst}[\text{Int}[F^{(g*(e - c*(f/d))} + f*g*(x^2/d)), x], x, \text{Sqrt}[c + d*x]], x] /; \text{FreeQ}[\{F, c, d, e, f, g\}, x] \ \&\& \ !\text{TrueQ}[\$UseGamma]$
2612. $\text{Int}[(F_)^{((g_)*(e_)+(f_)*(x_))}*((c_)+(d_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(-F^{(g*(e - c*(f/d))})*((c + d*x)^{\text{FracPart}[m]}/(d*((-f)*g*(\text{Log}[F]/d))^{\text{IntPart}[m] + 1})*((-f)*g*\text{Log}[F]*((c + d*x)/d))^{\text{FracPart}[m]}))*\text{Gamma}[m+1, ((-f)*g*(\text{Log}[F]/d))*(c + d*x)], x] /; \text{FreeQ}[\{F, c, d, e, f, g, m\}, x] \ \&\& \ !\text{IntegerQ}[m]$
2613. $\text{Int}[(b_)*(F_)^{((g_)*(e_)+(f_)*(x_))})^{(n_)}*((c_)+(d_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(b*F^{(g*(e + f*x))})^n/F^{(g*n*(e + f*x))} \ \text{Int}[(c + d*x)^m*F^{(g*n*(e + f*x))}, x], x] /; \text{FreeQ}[\{F, b, c, d, e, f, g, m, n\}, x]$
2614. $\text{Int}[(a_)+(b_)*((F_)^{((g_)*(e_)+(f_)*(x_))})^{(n_)}]^{(p_)}*((c_)+(d_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(c + d*x)^m, (a + b*(F^{(g*(e + f*x))})^n)^p, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, m, n\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
2615. $\text{Int}[(c_)+(d_)*(x_))^{(m_)} / ((a_)+(b_)*((F_)^{((g_)*(e_)+(f_)*(x_))})^{(n_)}), x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m+1)}/(a*d*(m+1)), x] - \text{Simp}[b/a \ \text{Int}[(c + d*x)^m*((F^{(g*(e + f*x))})^n/(a + b*(F^{(g*(e + f*x))})^n)), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, n\}, x] \ \&\& \ \text{IGtQ}[m, 0]$
2616. $\text{Int}[(a_)+(b_)*((F_)^{((g_)*(e_)+(f_)*(x_))})^{(n_)}]^{(p_)}*((c_)+(d_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/a \ \text{Int}[(c + d*x)^m*(a + b*(F^{(g*(e + f*x))})^n)^{(p+1)}, x], x] - \text{Simp}[b/a \ \text{Int}[(c + d*x)^m*(F^{(g*(e + f*x))})^n*(a + b*(F^{(g*(e + f*x))})^n)^p, x], x] /; \text{FreeQ}[\{F, a,$

- b, c, d, e, f, g, n}, x] && ILtQ[p, 0] && IGtQ[m, 0]
2617. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left((g_{\cdot}) \cdot (e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)}\right)^{n_{\cdot}}\right]^{\left(p_{\cdot}\right)} \cdot \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right) \cdot (x_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \text{ :> With}[\{u = \text{IntHide}[(a + b \cdot (F^{(g \cdot (e + f \cdot x)))^n})^p, x]\}, \text{Simp}[(c + d \cdot x)^m u, x] - \text{Simp}[d \cdot m \text{ Int}[(c + d \cdot x)^{m-1} u, x], x]] \text{ /; FreeQ}\{F, a, b, c, d, e, f, g, n\}, x\} \&\& \text{IGtQ}[m, 0] \&\& \text{LtQ}[p, -1]$
2618. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left((g_{\cdot}) \cdot (v_{\cdot})\right)}\right)^{n_{\cdot}}\right]^{\left(p_{\cdot}\right)} \cdot \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right) \cdot (x_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \text{ :> Int}[(c + d \cdot x)^m \cdot (a + b \cdot (F^{(g \cdot \text{ExpandToSum}[v, x])})^n)^p, x] \text{ /; FreeQ}\{F, a, b, c, d, g, n, p\}, x\} \&\& \text{LinearQ}[v, x] \&\& \text{!LinearMatchQ}[v, x] \&\& \text{IntegerQ}[m]$
2619. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left((g_{\cdot}) \cdot (e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)}\right)^{n_{\cdot}}\right]^{\left(p_{\cdot}\right)} \cdot \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right) \cdot (x_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \text{ :> Unintegrable}[(a + b \cdot (F^{(g \cdot (e + f \cdot x)))^n})^p \cdot (c + d \cdot x)^m, x] \text{ /; FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x\}$
2620. $\text{Int}[\left(\left(\left(F_{\cdot}\right)^{\left((g_{\cdot}) \cdot (e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)}\right)^{n_{\cdot}} \cdot \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right) \cdot (x_{\cdot})\right)^{m_{\cdot}}\right) / \left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right) \cdot \left(\left(F_{\cdot}\right)^{\left((g_{\cdot}) \cdot (e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)}\right)^{n_{\cdot}}\right), x_{\text{Symbol}}] \text{ :> Simp}[\left((c + d \cdot x)^m / (b \cdot f \cdot g \cdot n \cdot \text{Log}[F])\right) \cdot \text{Log}[1 + b \cdot (F^{(g \cdot (e + f \cdot x)))^n} / a], x] - \text{Simp}[d \cdot (m / (b \cdot f \cdot g \cdot n \cdot \text{Log}[F])) \text{ Int}[(c + d \cdot x)^{m-1} \cdot \text{Log}[1 + b \cdot (F^{(g \cdot (e + f \cdot x)))^n} / a], x], x]] \text{ /; FreeQ}\{F, a, b, c, d, e, f, g, n\}, x\} \&\& \text{IGtQ}[m, 0]$
2621. $\text{Int}[\left(\left(F_{\cdot}\right)^{\left((g_{\cdot}) \cdot (e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)}\right)^{n_{\cdot}} \cdot \left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right) \cdot \left(\left(F_{\cdot}\right)^{\left((g_{\cdot}) \cdot (e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)}\right)^{n_{\cdot}}\right)^{\left(p_{\cdot}\right)} \cdot \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right) \cdot (x_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \text{ :> Simp}[(c + d \cdot x)^m \cdot (a + b \cdot (F^{(g \cdot (e + f \cdot x)))^n})^{p+1} / (b \cdot f \cdot g \cdot n \cdot (p + 1) \cdot \text{Log}[F]), x] - \text{Simp}[d \cdot (m / (b \cdot f \cdot g \cdot n \cdot (p + 1) \cdot \text{Log}[F])) \text{ Int}[(c + d \cdot x)^{m-1} \cdot (a + b \cdot (F^{(g \cdot (e + f \cdot x)))^n})^{p+1}, x], x]] \text{ /; FreeQ}\{F, a, b, c, d, e, f, g, m, n, p\}, x\} \&\& \text{NeQ}[p, -1]$
2622. $\text{Int}[\left(\left(F_{\cdot}\right)^{\left((g_{\cdot}) \cdot (e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)}\right)^{n_{\cdot}} \cdot \left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right) \cdot \left(\left(F_{\cdot}\right)^{\left((g_{\cdot}) \cdot (e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)}\right)^{n_{\cdot}}\right)^{\left(p_{\cdot}\right)} \cdot \left(\left(c_{\cdot}\right) + \left(d_{\cdot}\right) \cdot (x_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \text{ :> Unintegrable}[(F^{(g \cdot (e + f \cdot x)))^n} \cdot (a + b \cdot (F^{(g \cdot (e + f \cdot x)))^n})^p \cdot (c + d \cdot x)^m, x] \text{ /; FreeQ}\{F, a, b, c, d, e, f, g, m, n, p\}, x\}$

2623. $\text{Int}[(a_.) + (b_.) * ((F_.)^{(g_.) * ((e_.) + (f_.) * (x_))})^{(n_.)})^{(p_.)} * ((k_.) * (G_.)^{(j_.) * ((h_.) + (i_.) * (x_))})^{(q_.)} * ((c_.) + (d_.) * (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(k * G^{(j * (h + i * x)))^q / (F^{(g * (e + f * x)))^n} \text{Int}[(c + d * x)^m * (F^{(g * (e + f * x)))^n * (a + b * (F^{(g * (e + f * x)))^n})^p, x], x] /; \text{FreeQ}\{F, a, b, c, d, e, f, g, h, i, j, k, m, n, p, q\}, x] \&\& \text{EqQ}[f * g * n * \text{Log}[F] - i * j * q * \text{Log}[G], 0] \&\& \text{NeQ}[(k * G^{(j * (h + i * x)))^q - (F^{(g * (e + f * x)))^n}, 0]$
2624. $\text{Int}[(F_.)^{(v_.)})^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(F^v)^n / (n * \text{Log}[F] * D[v, x]), x] /; \text{FreeQ}\{F, n\}, x] \&\& \text{LinearQ}[v, x]$
2625. $\text{Int}[(F_.)^{(v_.)} * (P_x), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[P_x * F^v, x], x] /; \text{FreeQ}[F, x] \&\& \text{PolynomialQ}[P_x, x] \&\& \text{LinearQ}[v, x] \&\& \text{TrueQ}[\$UseGamma]$
2626. $\text{Int}[(F_.)^{(v_.)} * (P_x), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[F^v, P_x, x], x] /; \text{FreeQ}[F, x] \&\& \text{PolynomialQ}[P_x, x] \&\& \text{LinearQ}[v, x] \&\& !\text{TrueQ}[\$UseGamma]$
2627. $\text{Int}[(F_.)^{(v_.)} * ((d_.) + (e_.) * (x_))^{(m_.)} * ((f_.) + (g_.) * (x_)), x_Symbol] \rightarrow \text{Simp}[g * (d + e * x)^{(m + 1)} * (F^v / (D[v, x] * e * \text{Log}[F])), x] /; \text{FreeQ}\{F, d, e, f, g, m\}, x] \&\& \text{LinearQ}[v, x] \&\& \text{EqQ}[e * g * (m + 1) - D[v, x] * (e * f - d * g) * \text{Log}[F], 0]$
2628. $\text{Int}[(F_.)^{(v_.)} * (P_x) * ((d_.) + (e_.) * (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[P_x * (d + e * x)^m * F^v, x], x] /; \text{FreeQ}\{F, d, e, m\}, x] \&\& \text{PolynomialQ}[P_x, x] \&\& \text{LinearQ}[v, x] \&\& \text{TrueQ}[\$UseGamma]$
2629. $\text{Int}[(F_.)^{(v_.)} * (P_x) * ((d_.) + (e_.) * (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[F^v, P_x * (d + e * x)^m, x], x] /; \text{FreeQ}\{F, d, e, m\}, x] \&\& \text{PolynomialQ}[P_x, x] \&\& \text{LinearQ}[v, x] \&\& !\text{TrueQ}[\$UseGamma]$
2630. $\text{Int}[\text{Log}[(d_.) * (x_)]^{(n_.)} * (F_.)^{(v_.)} * ((e_.) + \text{Log}[(d_.) * (x_)] * (h_.) * ((f_.) + (g_.) * (x_))), x_Symbol] \rightarrow \text{Simp}[e * x * F^v * (\text{Log}[d * x])^{(n + 1)} / (n + 1), x] /; \text{FreeQ}\{F, d, e, f, g, h, n\}, x] \&\& \text{LinearQ}[v, x] \&\& \text{EqQ}[e, f * h * (n + 1)] \&\& \text{EqQ}[g * h * (n + 1), D[v, x] * e * \text{Log}[F]] \&\& \text{NeQ}[n, -1]$

2631. $\text{Int}[\text{Log}[(d_)(x_)]^{(n_)}(F_)^{(v_)}(x_)^{(m_)}((e_ + \text{Log}[(d_)(x_)] * (h_)(f_ + (g_)(x_))), x_Symbol] \rightarrow \text{Simp}[e*x^{(m+1)}*F^v*(\text{Log}[d*x]^{(n+1)}/(n+1)), x] /; \text{FreeQ}[\{F, d, e, f, g, h, m, n\}, x] \ \&\& \ \text{LinearQ}[v, x] \ \&\& \ \text{EqQ}[e*(m+1), f*h*(n+1)] \ \&\& \ \text{EqQ}[g*h*(n+1), D[v, x]*e*\text{Log}[F]] \ \&\& \ \text{NeQ}[n, -1]$
2632. $\text{Int}[(F_)^{((a_ + (b_)*((c_ + (d_)(x_)))}, x_Symbol] \rightarrow \text{Simp}[F^{(a + b*(c + d*x))}/(b*d*\text{Log}[F]), x] /; \text{FreeQ}[\{F, a, b, c, d\}, x]$
2633. $\text{Int}[(F_)^{((a_ + (b_)*((c_ + (d_)(x_))^2), x_Symbol] \rightarrow \text{Simp}[F^a * \text{Sqrt}[\text{Pi}]*(\text{Erfi}[(c + d*x)*\text{Rt}[b*\text{Log}[F], 2]]/(2*d*\text{Rt}[b*\text{Log}[F], 2])), x] /; \text{FreeQ}[\{F, a, b, c, d\}, x] \ \&\& \ \text{PosQ}[b]$
2634. $\text{Int}[(F_)^{((a_ + (b_)*((c_ + (d_)(x_))^2), x_Symbol] \rightarrow \text{Simp}[F^a * \text{Sqrt}[\text{Pi}]*(\text{Erf}[(c + d*x)*\text{Rt}[(-b)*\text{Log}[F], 2]]/(2*d*\text{Rt}[(-b)*\text{Log}[F], 2])), x] /; \text{FreeQ}[\{F, a, b, c, d\}, x] \ \&\& \ \text{NegQ}[b]$
2635. $\text{Int}[(F_)^{((a_ + (b_)*((c_ + (d_)(x_))^n)), x_Symbol] \rightarrow \text{Simp}[(c + d*x)*(F^{(a + b*(c + d*x)^n})/d), x] - \text{Simp}[b*n*\text{Log}[F] \ \text{Int}[(c + d*x)^n * F^{(a + b*(c + d*x)^n)}, x], x] /; \text{FreeQ}[\{F, a, b, c, d\}, x] \ \&\& \ \text{IntegerQ}[2/n] \ \&\& \ \text{ILtQ}[n, 0]$
2636. $\text{Int}[(F_)^{((a_ + (b_)*((c_ + (d_)(x_))^n)), x_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[n]\}, \text{Simp}[k/d \ \text{Subst}[\text{Int}[x^{(k-1)}*F^{(a + b*x^{(k*n)})}, x], x, (c + d*x)^{(1/k)}], x]] /; \text{FreeQ}[\{F, a, b, c, d\}, x] \ \&\& \ \text{IntegerQ}[2/n] \ \&\& \ \text{!IntegerQ}[n]$
2637. $\text{Int}[(F_)^{((a_ + (b_)*((c_ + (d_)(x_))^n)), x_Symbol] \rightarrow \text{Simp}[(-F^a)*(c + d*x)*(\text{Gamma}[1/n, (-b)*(c + d*x)^n*\text{Log}[F]]/(d*n*((-b)*(c + d*x)^n*\text{Log}[F])^{(1/n)})), x] /; \text{FreeQ}[\{F, a, b, c, d, n\}, x] \ \&\& \ \text{!IntegerQ}[2/n]$
2638. $\text{Int}[(F_)^{((a_ + (b_)*((c_ + (d_)(x_))^n))*((e_ + (f_)(x_))^{(m_)}), x_Symbol] \rightarrow \text{Simp}[(e + f*x)^n*(F^{(a + b*(c + d*x)^n})/(b*f*n*(c + d*x)^n*\text{Log}[F])), x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, n\}, x] \ \&\& \ \text{EqQ}[m$

- , n - 1] && EqQ[d*e - c*f, 0]
2639. $\text{Int}[(F_)^{\wedge}((a_.) + (b_.)*((c_.) + (d_.)*(x_))^{\wedge}(n_)) / ((e_.) + (f_.)*(x_)), x_Symbol] \rightarrow \text{Simp}[F^{\wedge}a * (\text{ExpIntegralEi}[b*(c + d*x)^{\wedge}n * \text{Log}[F]] / (f*n)), x] /;$ FreeQ[{F, a, b, c, d, e, f, n}, x] && EqQ[d*e - c*f, 0]
2640. $\text{Int}[(F_)^{\wedge}((a_.) + (b_.)*((c_.) + (d_.)*(x_))^{\wedge}(n_)) * ((c_.) + (d_.)*(x_))^{\wedge}(m_.), x_Symbol] \rightarrow \text{Simp}[1 / (d*(m + 1)) \text{ Subst}[\text{Int}[F^{\wedge}(a + b*x^{\wedge}2), x], x, (c + d*x)^{\wedge}(m + 1)], x] /;$ FreeQ[{F, a, b, c, d, m, n}, x] && EqQ[n, 2*(m + 1)]
2641. $\text{Int}[(F_)^{\wedge}((a_.) + (b_.)*((c_.) + (d_.)*(x_))^{\wedge}(n_)) * ((c_.) + (d_.)*(x_))^{\wedge}(m_.), x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{\wedge}(m - n + 1) * (F^{\wedge}(a + b*(c + d*x)^{\wedge}n) / (b*d*n * \text{Log}[F])), x] - \text{Simp}[(m - n + 1) / (b*n * \text{Log}[F]) \text{ Int}[(c + d*x)^{\wedge}(m - n) * F^{\wedge}(a + b*(c + d*x)^{\wedge}n), x], x] /;$ FreeQ[{F, a, b, c, d}, x] && IntegerQ[2*(m + 1)/n] && LtQ[0, (m + 1)/n, 5] && IntegerQ[n] && (LtQ[0, n, m + 1] || LtQ[m, n, 0])
2642. $\text{Int}[(F_)^{\wedge}((a_.) + (b_.)*((c_.) + (d_.)*(x_))^{\wedge}(n_)) * ((c_.) + (d_.)*(x_))^{\wedge}(m_.), x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{\wedge}(m - n + 1) * (F^{\wedge}(a + b*(c + d*x)^{\wedge}n) / (b*d*n * \text{Log}[F])), x] - \text{Simp}[(m - n + 1) / (b*n * \text{Log}[F]) \text{ Int}[(c + d*x)^{\wedge}m * \text{Simplify}[m - n] * F^{\wedge}(a + b*(c + d*x)^{\wedge}n), x], x] /;$ FreeQ[{F, a, b, c, d, m, n}, x] && IntegerQ[2 * Simplify[(m + 1)/n]] && LtQ[0, Simplify[(m + 1)/n], 5] && !RationalQ[m] && SumSimplerQ[m, -n]
2643. $\text{Int}[(F_)^{\wedge}((a_.) + (b_.)*((c_.) + (d_.)*(x_))^{\wedge}(n_)) * ((c_.) + (d_.)*(x_))^{\wedge}(m_.), x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{\wedge}(m + 1) * (F^{\wedge}(a + b*(c + d*x)^{\wedge}n) / (d * (m + 1))), x] - \text{Simp}[b*n * (\text{Log}[F] / (m + 1)) \text{ Int}[(c + d*x)^{\wedge}(m + n) * F^{\wedge}(a + b*(c + d*x)^{\wedge}n), x], x] /;$ FreeQ[{F, a, b, c, d}, x] && IntegerQ[2 * ((m + 1)/n)] && LtQ[-4, (m + 1)/n, 5] && IntegerQ[n] && ((GtQ[n, 0] && LtQ[m, -1]) || (GtQ[-n, 0] && LeQ[-n, m + 1]))
2644. $\text{Int}[(F_)^{\wedge}((a_.) + (b_.)*((c_.) + (d_.)*(x_))^{\wedge}(n_)) * ((c_.) + (d_.)*(x_))^{\wedge}(m_.), x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{\wedge}(m + 1) * (F^{\wedge}(a + b*(c + d*x)^{\wedge}n) / (d * (m + 1))), x] - \text{Simp}[b*n * (\text{Log}[F] / (m + 1)) \text{ Int}[(c + d*x)^{\wedge}m * \text{Simplify}[m + n] * F^{\wedge}(a + b*(c + d*x)^{\wedge}n), x], x] /;$ FreeQ[{F, a, b, c, d, m, n}, x] && IntegerQ[2 * Simplify[(m + 1)/n]] && LtQ[-4, Simplify[(m + 1)/n], 5]

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&& !RationalQ[m] && SumSimplerQ[m, n]

2645. Int[(F_)^((a_.) + (b_.)*((c_.) + (d_.)*(x_))^(n_))*((c_.) + (d_.)*(x_))
)^(m_.), x_Symbol] := With[{k = Denominator[n]}, Simp[k/d Subst[Int[
x^(k*(m + 1) - 1)*F^(a + b*x^(k*n)), x], x, (c + d*x)^(1/k)], x]] /; F
reeQ[{F, a, b, c, d, m, n}, x] && IntegerQ[2*((m + 1)/n)] && LtQ[0, (m
+ 1)/n, 5] && !IntegerQ[n]

2646. Int[(F_)^((a_.) + (b_.)*((c_.) + (d_.)*(x_))^(n_))*((e_.) + (f_.)*(x_))
)^(m_.), x_Symbol] := Simp[(e + f*x)^m/(c + d*x)^m Int[(c + d*x)^m*F
^(a + b*(c + d*x)^n), x], x] /; FreeQ[{F, a, b, c, d, e, f, m, n}, x]
&& EqQ[d*e - c*f, 0] && IntegerQ[2*Simplify[(m + 1)/n]] && !IntegerQ[
m] && NeQ[f, d] && NeQ[c*e, 0]

2647. Int[(F_)^((a_.) + (b_.)*((c_.) + (d_.)*(x_))^(n_))*((e_.) + (f_.)*(x_))
)^(m_.), x_Symbol] := With[{p = Simplify[(m + 1)/n]}, Simp[(-F^a)*((f/
d)^m/(d*n*((-b)*Log[F])^p))*Simplify[FunctionExpand[Gamma[p, (-b)*(c +
d*x)^n*Log[F]]]], x] /; IGtQ[p, 0]] /; FreeQ[{F, a, b, c, d, e, f, m,
n}, x] && EqQ[d*e - c*f, 0] && !TrueQ[$UseGamma]

2648. Int[(F_)^((a_.) + (b_.)*((c_.) + (d_.)*(x_))^(n_))*((e_.) + (f_.)*(x_))
)^(m_.), x_Symbol] := Simp[(-F^a)*((e + f*x)^(m + 1)/(f*n*((-b)*(c + d
*x)^n*Log[F])^(m + 1)/n))*Gamma[(m + 1)/n, (-b)*(c + d*x)^n*Log[F]],
x] /; FreeQ[{F, a, b, c, d, e, f, m, n}, x] && EqQ[d*e - c*f, 0]

2649. Int[(F_)^((a_.) + (b_.)*((c_.) + (d_.)*(x_))^(n_))*((e_.) + (f_.)*(x_))^(
m_), x_Symbol] := Simp[f*(e + f*x)^(m - 1)*(F^(a + b*(c + d*x)^2)/(2*b
*d^2*Log[F])), x] + (Simp[(d*e - c*f)/d Int[(e + f*x)^(m - 1)*F^(a +
b*(c + d*x)^2), x], x] - Simp[(m - 1)*(f^2/(2*b*d^2*Log[F])) Int[(e
+ f*x)^(m - 2)*F^(a + b*(c + d*x)^2), x], x]) /; FreeQ[{F, a, b, c, d
, e, f}, x] && NeQ[d*e - c*f, 0] && FractionQ[m] && GtQ[m, 1]

2650. Int[(F_)^((a_.) + (b_.)*((c_.) + (d_.)*(x_))^(n_))*((e_.) + (f_.)*(x_))^(
m_), x_Symbol] := Simp[f*(e + f*x)^(m + 1)*(F^(a + b*(c + d*x)^2)/((m
+ 1)*f^2)), x] + (-Simp[2*b*d^2*(Log[F]/(f^2*(m + 1))) Int[(e + f*x)
^(m + 2)*F^(a + b*(c + d*x)^2), x], x] + Simp[2*b*d*(d*e - c*f)*(Log[F
]/(f^2*(m + 1))) Int[(e + f*x)^(m + 1)*F^(a + b*(c + d*x)^2), x], x]

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) /; FreeQ[{F, a, b, c, d, e, f}, x] && NeQ[d*e - c*f, 0] && LtQ[m, -1
]

2651. Int[(F_)^((a_) + (b_)*((c_) + (d_)*(x_))^(n_))*((e_) + (f_)*(x_))
)^(m_), x_Symbol] := Simp[(e + f*x)^(m + 1)*(F^(a + b*(c + d*x)^n)/(f*(
m + 1))), x] - Simp[b*d*n*(Log[F]/(f*(m + 1))) Int[(e + f*x)^(m + 1)
)*(c + d*x)^(n - 1)*F^(a + b*(c + d*x)^n), x], x] /; FreeQ[{F, a, b, c
, d, e, f}, x] && NeQ[d*e - c*f, 0] && IGtQ[n, 2] && LtQ[m, -1]

2652. Int[(F_)^((a_) + (b_)/((c_) + (d_)*(x_)))/((e_) + (f_)*(x_)), x_
Symbol] := Simp[d/f Int[F^(a + b/(c + d*x))/(c + d*x), x], x] - Simp
[(d*e - c*f)/f Int[F^(a + b/(c + d*x))/((c + d*x)*(e + f*x)), x], x]
/; FreeQ[{F, a, b, c, d, e, f}, x] && NeQ[d*e - c*f, 0]

2653. Int[(F_)^((a_) + (b_)/((c_) + (d_)*(x_)))*((e_) + (f_)*(x_))^(m_
), x_Symbol] := Simp[(e + f*x)^(m + 1)*(F^(a + b/(c + d*x)))/(f*(m + 1)
)), x] + Simp[b*d*(Log[F]/(f*(m + 1))) Int[(e + f*x)^(m + 1)*(F^(a +
b/(c + d*x)))/(c + d*x)^2), x], x] /; FreeQ[{F, a, b, c, d, e, f}, x]
&& NeQ[d*e - c*f, 0] && ILtQ[m, -1]

2654. Int[(F_)^((a_) + (b_)*((c_) + (d_)*(x_))^(n_))/((e_) + (f_)*(x_
)), x_Symbol] := Unintegrable[F^(a + b*(c + d*x)^n)/(e + f*x), x] /; Fr
eeQ[{F, a, b, c, d, e, f, n}, x] && NeQ[d*e - c*f, 0]

2655. Int[(F_)^(v_)*((e_) + (f_)*(x_))^(m_), x_Symbol] := Int[(e + f*x)^m
*F^ExpandToSum[v, x], x] /; FreeQ[{F, e, f, m}, x] && BinomialQ[v, x]
&& !BinomialMatchQ[v, x]

2656. Int[(F_)^((a_) + (b_)*((c_) + (d_)*(x_))^(n_))* (Px_), x_Symbol] :=
Int[ExpandLinearProduct[F^(a + b*(c + d*x)^n), Px, c, d, x], x] /; Fr
eeQ[{F, a, b, c, d, n}, x] && PolynomialQ[Px, x]

2657. Int[(Px_)*(F_)^((a_) + (b_)*(v_))^(n_), x_Symbol] := Int[Px*F^(a +
b*ExpandToSum[v, x]^n), x] /; FreeQ[{F, a, b, n}, x] && PolynomialQ[P
x, x] && LinearQ[v, x] && !LinearMatchQ[v, x]

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2658.  $\text{Int}[(F_)^{\wedge}((a_.) + (b_.)/((c_.) + (d_.)*(x_)))/(((e_.) + (f_.)*(x_))*((g_.) + (h_.)*(x_))), x\_Symbol] \rightarrow \text{Simp}[-d/(f*(d*g - c*h)) \text{ Subst}[\text{Int}[F^{\wedge}(a - b*(h/(d*g - c*h)) + d*b*(x/(d*g - c*h)))/x, x], x, (g + h*x)/(c + d*x)], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f\}, x] \&\& \text{EqQ}[d*e - c*f, 0]$
2659.  $\text{Int}[(F_)^{\wedge}((e_.) + ((f_.)*((a_.) + (b_.)*(x_)))/((c_.) + (d_.)*(x_)))*((g_.) + (h_.)*(x_))^{\wedge}(m_.), x\_Symbol] \rightarrow \text{Simp}[F^{\wedge}(e + f*(b/d)) \text{ Int}[(g + h*x)^{\wedge}m, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, h, m\}, x] \&\& \text{EqQ}[b*c - a*d, 0]$
2660.  $\text{Int}[(F_)^{\wedge}((e_.) + ((f_.)*((a_.) + (b_.)*(x_)))/((c_.) + (d_.)*(x_)))*((g_.) + (h_.)*(x_))^{\wedge}(m_.), x\_Symbol] \rightarrow \text{Int}[(g + h*x)^{\wedge}m * F^{\wedge}((d*e + b*f)/d - f*((b*c - a*d)/(d*(c + d*x))))], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, h, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[d*g - c*h, 0]$
2661.  $\text{Int}[(F_)^{\wedge}((e_.) + ((f_.)*((a_.) + (b_.)*(x_)))/((c_.) + (d_.)*(x_)))/((g_.) + (h_.)*(x_)), x\_Symbol] \rightarrow \text{Simp}[d/h \text{ Int}[F^{\wedge}(e + f*((a + b*x)/(c + d*x)))/(c + d*x), x], x] - \text{Simp}[(d*g - c*h)/h \text{ Int}[F^{\wedge}(e + f*((a + b*x)/(c + d*x)))/(c + d*x)*(g + h*x), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[d*g - c*h, 0]$
2662.  $\text{Int}[(F_)^{\wedge}((e_.) + ((f_.)*((a_.) + (b_.)*(x_)))/((c_.) + (d_.)*(x_)))*((g_.) + (h_.)*(x_))^{\wedge}(m_.), x\_Symbol] \rightarrow \text{Simp}[(g + h*x)^{\wedge}(m + 1)*(F^{\wedge}(e + f*((a + b*x)/(c + d*x)))/(h*(m + 1))), x] - \text{Simp}[f*(b*c - a*d)*(Log[F]/(h*(m + 1))) \text{ Int}[(g + h*x)^{\wedge}(m + 1)*(F^{\wedge}(e + f*((a + b*x)/(c + d*x)))/(c + d*x)^{\wedge}2), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, h\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[d*g - c*h, 0] \&\& \text{ILtQ}[m, -1]$
2663.  $\text{Int}[(F_)^{\wedge}((e_.) + ((f_.)*((a_.) + (b_.)*(x_)))/((c_.) + (d_.)*(x_)))/((g_.) + (h_.)*(x_))*((i_.) + (j_.)*(x_)), x\_Symbol] \rightarrow \text{Simp}[-d/(h*(d*i - c*j)) \text{ Subst}[\text{Int}[F^{\wedge}(e + f*((b*i - a*j)/(d*i - c*j)) - (b*c - a*d)*f*(x/(d*i - c*j)))/x, x], x, (i + j*x)/(c + d*x)], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, h\}, x] \&\& \text{EqQ}[d*g - c*h, 0]$
2664.  $\text{Int}[(F_)^{\wedge}((a_.) + (b_.)*(x_) + (c_.)*(x_)^2), x\_Symbol] \rightarrow \text{Simp}[F^{\wedge}(a - b^2/(4*c)) \text{ Int}[F^{\wedge}((b + 2*c*x)^2/(4*c)), x], x] /; \text{FreeQ}[\{F, a, b, c$

}, x]

2665.  $\text{Int}[(F\_)^{(v\_)}, x\_Symbol] \rightarrow \text{Int}[F^{\text{ExpandToSum}[v, x]}, x] /; \text{FreeQ}[F, x]$   
 $\&\& \text{QuadraticQ}[v, x] \&\& !\text{QuadraticMatchQ}[v, x]$
2666.  $\text{Int}[(F\_)^{((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)*((d\_.) + (e\_.)*(x\_))}, x\_Symbol]$   
 $\rightarrow \text{Simp}[e*(F^{(a + b*x + c*x^2)/(2*c*Log[F])}), x] /; \text{FreeQ}[\{F, a,$   
 $b, c, d, e\}, x] \&\& \text{EqQ}[b*e - 2*c*d, 0]$
2667.  $\text{Int}[(F\_)^{((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)*((d\_.) + (e\_.)*(x\_))^{(m\_)}}, x\_Symbol]$   
 $\rightarrow \text{Simp}[e*(d + e*x)^{(m - 1)}*(F^{(a + b*x + c*x^2)/(2*c*Log[F])}), x] - \text{Simp}[(m - 1)*(e^2/(2*c*Log[F]))$   
 $\text{Int}[(d + e*x)^{(m - 2)}*F^{(a + b*x + c*x^2)}, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{EqQ}[b*e -$   
 $2*c*d, 0] \&\& \text{GtQ}[m, 1]$
2668.  $\text{Int}[(F\_)^{((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)/((d\_.) + (e\_.)*(x\_))}, x\_Symbol]$   
 $\rightarrow \text{Simp}[(1/(2*e))*F^{(a - b^2/(4*c))*\text{ExpIntegralEi}[(b + 2*c*x)^2$   
 $*(Log[F]/(4*c))}], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{EqQ}[b*e - 2*c*$   
 $d, 0]$
2669.  $\text{Int}[(F\_)^{((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)*((d\_.) + (e\_.)*(x\_))^{(m\_)}}, x\_Symbol]$   
 $\rightarrow \text{Simp}[(d + e*x)^{(m + 1)}*(F^{(a + b*x + c*x^2)/(e*(m + 1))}), x] - \text{Simp}[2*c*(Log[F]/(e^2*(m + 1)))$   
 $\text{Int}[(d + e*x)^{(m + 2)}*F^{(a + b*x + c*x^2)}, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{EqQ}[b*e - 2*c*$   
 $d, 0] \&\& \text{LtQ}[m, -1]$
2670.  $\text{Int}[(F\_)^{((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)*((d\_.) + (e\_.)*(x\_))}, x\_Symbol]$   
 $\rightarrow \text{Simp}[e*(F^{(a + b*x + c*x^2)/(2*c*Log[F])}), x] - \text{Simp}[(b*e -$   
 $2*c*d)/(2*c) \text{Int}[F^{(a + b*x + c*x^2)}, x], x] /; \text{FreeQ}[\{F, a, b, c, d,$   
 $e\}, x] \&\& \text{NeQ}[b*e - 2*c*d, 0]$
2671.  $\text{Int}[(F\_)^{((a\_.) + (b\_.)*(x\_.) + (c\_.)*(x\_.)^2)*((d\_.) + (e\_.)*(x\_))^{(m\_)}}, x\_Symbol]$   
 $\rightarrow \text{Simp}[e*(d + e*x)^{(m - 1)}*(F^{(a + b*x + c*x^2)/(2*c*Log[F])}), x] + (-\text{Simp}[(b*e - 2*c*d)/(2*c)$   
 $\text{Int}[(d + e*x)^{(m - 1)}*F^{(a + b*x + c*x^2)}, x], x] - \text{Simp}[(m - 1)*(e^2/(2*c*Log[F]))$   
 $\text{Int}[(d + e*x)^{(m - 2)}*F^{(a + b*x + c*x^2)}, x], x]) /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&$

& NeQ[b\*e - 2\*c\*d, 0] && GtQ[m, 1]

2672. Int[(F\_)^((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)\*((d\_.) + (e\_.)\*(x\_))^(m\_)  
 , x\_Symbol] := Simp[(d + e\*x)^(m + 1)\*(F^(a + b\*x + c\*x^2)/(e\*(m + 1))  
 ), x] + (-Simp[2\*c\*(Log[F]/(e^2\*(m + 1))) Int[(d + e\*x)^(m + 2)\*F^(a  
 + b\*x + c\*x^2), x], x] - Simp[(b\*e - 2\*c\*d)\*(Log[F]/(e^2\*(m + 1)))  
 Int[(d + e\*x)^(m + 1)\*F^(a + b\*x + c\*x^2), x], x] /; FreeQ[{F, a, b,  
 c, d, e}, x] && NeQ[b\*e - 2\*c\*d, 0] && LtQ[m, -1]

2673. Int[(F\_)^((a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2)\*((d\_.) + (e\_.)\*(x\_))^(m\_.  
 ), x\_Symbol] := Unintegrable[F^(a + b\*x + c\*x^2)\*(d + e\*x)^m, x] /; Fr  
 eeQ[{F, a, b, c, d, e, m}, x]

2674. Int[(F\_)^(v\_)\*(u\_)^(m\_.), x\_Symbol] := Int[ExpandToSum[u, x]^m\*F^Expan  
 dToSum[v, x], x] /; FreeQ[{F, m}, x] && LinearQ[u, x] && QuadraticQ[v,  
 x] && !(LinearMatchQ[u, x] && QuadraticMatchQ[v, x])

2675. Int[(F\_)^((e\_.)\*((c\_.) + (d\_.)\*(x\_)))\*((a\_.) + (b\_.)\*(F\_)^(v\_))^(p\_)\*(  
 x\_)^(m\_.), x\_Symbol] := With[{u = IntHide[F^(e\*(c + d\*x))\*(a + b\*F^v)^  
 p, x]}, Simp[x^m u, x] - Simp[m Int[x^(m - 1)\*u, x], x] /; FreeQ[  
 {F, a, b, c, d, e}, x] && EqQ[v, 2\*e\*(c + d\*x)] && GtQ[m, 0] && ILtQ[p  
 , 0]

2676. Int[((F\_)^((e\_.)\*((c\_.) + (d\_.)\*(x\_))))^(n\_.)\*((a\_) + (b\_.)\*((F\_)^((e\_.  
 .)\*((c\_.) + (d\_.)\*(x\_))))^(p\_.), x\_Symbol] := Simp[1/(d\*e\*n\*Log  
 [F]) Subst[Int[(a + b\*x)^p, x], x, (F^(e\*(c + d\*x)))^n], x] /; FreeQ  
 [{F, a, b, c, d, e, n, p}, x]

2677. Int[((a\_) + (b\_.)\*((F\_)^((e\_.)\*((c\_.) + (d\_.)\*(x\_))))^(n\_.))^(p\_.)\*((G  
 \_)^((h\_.)\*((f\_.) + (g\_.)\*(x\_))))^(m\_.), x\_Symbol] := Simp[(G^(h\*(f + g  
 \*x)))^m/(F^(e\*(c + d\*x)))^n Int[(F^(e\*(c + d\*x)))^n\*(a + b\*(F^(e\*(c  
 + d\*x)))^n)^p, x], x] /; FreeQ[{F, G, a, b, c, d, e, f, g, h, m, n, p]  
 , x] && EqQ[d\*e\*n\*Log[F], g\*h\*m\*Log[G]]

2678. Int[((a\_) + (b\_.)\*(F\_)^((e\_.)\*((c\_.) + (d\_.)\*(x\_))))^(p\_.)\*(G\_)^((h\_.)  
 \*((f\_.) + (g\_.)\*(x\_))), x\_Symbol] := With[{m = FullSimplify[g\*h\*(Log[G

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]/(d*e*Log[F]))]}, Simp[Denominator[m]*(G^(f*h - c*g*(h/d))/(d*e*Log[F
])) Subst[Int[x^(Numerator[m] - 1)*(a + b*x^Denominator[m])^p, x], x
, F^(e*((c + d*x)/Denominator[m]))], x] /; LeQ[m, -1] || GeQ[m, 1]] /;
FreeQ[{F, G, a, b, c, d, e, f, g, h, p}, x]

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2679. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left((e_{\cdot}) \cdot \left((c_{\cdot}) + (d_{\cdot}) \cdot (x_{\cdot})\right)\right)}\right)^{p_{\cdot}} \cdot (G_{\cdot})^{\left((h_{\cdot}) \cdot \left((f_{\cdot}) + (g_{\cdot}) \cdot (x_{\cdot})\right)\right)}, x_{\text{Symbol}}] \rightarrow \text{With}[\{m = \text{FullSimplify}[d \cdot e \cdot (\text{Log}[F] / (g \cdot h \cdot \text{Log}[G]))]\}, \text{Simp}[\text{Denominator}[m] / (g \cdot h \cdot \text{Log}[G]) \text{ Subst}[\text{Int}[x^{\left(\text{Denominator}[m] - 1\right) \cdot (a + b \cdot F^{\left(c \cdot e - d \cdot e \cdot (f/g)\right)} \cdot x^{\text{Numerator}[m]}\right)}]^p, x], x, G^{\left(h \cdot \left((f + g \cdot x) / \text{Denominator}[m]\right)\right)}, x] /; \text{LtQ}[m, -1] || \text{GtQ}[m, 1]] /; \text{FreeQ}[\{F, G, a, b, c, d, e, f, g, h, p\}, x]$
2680. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left((e_{\cdot}) \cdot \left((c_{\cdot}) + (d_{\cdot}) \cdot (x_{\cdot})\right)\right)}\right)^{p_{\cdot}} \cdot (G_{\cdot})^{\left((h_{\cdot}) \cdot \left((f_{\cdot}) + (g_{\cdot}) \cdot (x_{\cdot})\right)\right)}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{Expand}[G^{\left(h \cdot (f + g \cdot x)\right)} \cdot (a + b \cdot F^{\left(e \cdot (c + d \cdot x)\right)})^p, x], x] /; \text{FreeQ}[\{F, G, a, b, c, d, e, f, g, h\}, x] \&\& \text{IGtQ}[p, 0]$
2681. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left((e_{\cdot}) \cdot \left((c_{\cdot}) + (d_{\cdot}) \cdot (x_{\cdot})\right)\right)}\right)^{p_{\cdot}} \cdot (G_{\cdot})^{\left((h_{\cdot}) \cdot \left((f_{\cdot}) + (g_{\cdot}) \cdot (x_{\cdot})\right)\right)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[a^p \cdot (G^{\left(h \cdot (f + g \cdot x)\right)}) / (g \cdot h \cdot \text{Log}[G]) \cdot \text{Hypergeometric2F1}[-p, g \cdot h \cdot (\text{Log}[G] / (d \cdot e \cdot \text{Log}[F])), g \cdot h \cdot (\text{Log}[G] / (d \cdot e \cdot \text{Log}[F])) + 1, \text{Simplify}[(-b/a) \cdot F^{\left(e \cdot (c + d \cdot x)\right)}], x] /; \text{FreeQ}[\{F, G, a, b, c, d, e, f, g, h, p\}, x] \&\& (\text{ILtQ}[p, 0] || \text{GtQ}[a, 0])]$
2682. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left((e_{\cdot}) \cdot \left((c_{\cdot}) + (d_{\cdot}) \cdot (x_{\cdot})\right)\right)}\right)^{p_{\cdot}} \cdot (G_{\cdot})^{\left((h_{\cdot}) \cdot \left((f_{\cdot}) + (g_{\cdot}) \cdot (x_{\cdot})\right)\right)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b \cdot F^{\left(e \cdot (c + d \cdot x)\right)})^p / (1 + (b/a) \cdot F^{\left(e \cdot (c + d \cdot x)\right)})^p \text{ Int}[G^{\left(h \cdot (f + g \cdot x)\right)} \cdot (1 + (b/a) \cdot F^{\left(e \cdot (c + d \cdot x)\right)})^p, x], x] /; \text{FreeQ}[\{F, G, a, b, c, d, e, f, g, h, p\}, x] \&\& !(\text{ILtQ}[p, 0] || \text{GtQ}[a, 0])]$
2683. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left((e_{\cdot}) \cdot (v_{\cdot})\right)}\right)^{p_{\cdot}} \cdot (G_{\cdot})^{\left((h_{\cdot}) \cdot (u_{\cdot})\right)}, x_{\text{Symbol}}] \rightarrow \text{Int}[G^{\left(h \cdot \text{ExpandToSum}[u, x]\right)} \cdot (a + b \cdot F^{\left(e \cdot \text{ExpandToSum}[v, x]\right)})^p, x] /; \text{FreeQ}[\{F, G, a, b, e, h, p\}, x] \&\& \text{LinearQ}[\{u, v\}, x] \&\& !\text{LinearMatchQ}[\{u, v\}, x]$
2684. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot}) \cdot (F_{\cdot})^{\left(u_{\cdot}\right)}\right)^{p_{\cdot}} \cdot \left((c_{\cdot}) + (d_{\cdot}) \cdot (F_{\cdot})^{\left(v_{\cdot}\right)}\right)^{q_{\cdot}} \cdot \left((e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{w = \text{ExpandIntegrand}[(e + f \cdot x)^m, (a + b \cdot F^u)^p \cdot (c + d \cdot F^v)^q, x]\}, \text{Int}[w, x] /; \text{SumQ}[w]] /; \text{Fre}$

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eQ[{F, a, b, c, d, e, f, m}, x] && IntegersQ[p, q] && LinearQ[{u, v},
x] && RationalQ[Simplify[u/v]]
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2685.  $\text{Int}[\left((a_.) + (b_.) \cdot (F_.)^{\left((e_.) \cdot \left((c_.) + (d_.) \cdot (x_.)\right)\right)}\right)^{p_.)} \cdot (G_.)^{\left((h_.) \cdot \left((f_.) + (g_.) \cdot (x_.)\right)\right)} \cdot (H_.)^{\left((t_.) \cdot \left((r_.) + (s_.) \cdot (x_.)\right)\right)}, x\_Symbol] \rightarrow$   
 $\text{With}[\{m = \text{FullSimplify}[(g \cdot h \cdot \text{Log}[G] + s \cdot t \cdot \text{Log}[H]) / (d \cdot e \cdot \text{Log}[F])]\}, \text{Simp}$   
 $[\text{Denominator}[m] \cdot G^{\left(f \cdot h - c \cdot g \cdot \left(\frac{h}{d}\right)\right)} \cdot H^{\left(r \cdot t - c \cdot s \cdot \left(\frac{t}{d}\right)\right)} / (d \cdot e \cdot \text{Log}[F])\right)$   
 $\text{Subst}[\text{Int}[x^{\left(\text{Numerator}[m] - 1\right)} \cdot (a + b \cdot x^{\text{Denominator}[m]})^p, x], x, F$   
 $^{\left(e \cdot \left(\frac{c + d \cdot x}{\text{Denominator}[m]}\right)\right)], x] /; \text{RationalQ}[m] /; \text{FreeQ}[\{F, G,$   
 $H, a, b, c, d, e, f, g, h, r, s, t, p\}, x]$
2686.  $\text{Int}[\left((a_.) + (b_.) \cdot (F_.)^{\left((e_.) \cdot \left((c_.) + (d_.) \cdot (x_.)\right)\right)}\right)^{p_.)} \cdot (G_.)^{\left((h_.) \cdot \left((f_.) + (g_.) \cdot (x_.)\right)\right)} \cdot (H_.)^{\left((t_.) \cdot \left((r_.) + (s_.) \cdot (x_.)\right)\right)}, x\_Symbol] \rightarrow$   
 $\text{Simp}[G^{\left((f - c \cdot (g/d)) \cdot h\right)} \text{Int}[H^{\left(t \cdot (r + s \cdot x)\right)} \cdot (b + a/F^{\left(e \cdot (c + d \cdot x)\right)})$   
 $]^p, x], x] /; \text{FreeQ}[\{F, G, H, a, b, c, d, e, f, g, h, r, s, t\}, x] \&\&$   
 $\text{EqQ}[d \cdot e \cdot p \cdot \text{Log}[F] + g \cdot h \cdot \text{Log}[G], 0] \&\& \text{IntegerQ}[p]$
2687.  $\text{Int}[\left((a_.) + (b_.) \cdot (F_.)^{\left((e_.) \cdot \left((c_.) + (d_.) \cdot (x_.)\right)\right)}\right)^{p_.)} \cdot (G_.)^{\left((h_.) \cdot \left((f_.) + (g_.) \cdot (x_.)\right)\right)} \cdot (H_.)^{\left((t_.) \cdot \left((r_.) + (s_.) \cdot (x_.)\right)\right)}, x\_Symbol] \rightarrow$   
 $\text{Int}[\text{Expand}[G^{\left(h \cdot (f + g \cdot x)\right)} \cdot H^{\left(t \cdot (r + s \cdot x)\right)} \cdot (a + b \cdot F^{\left(e \cdot (c + d \cdot x)\right)})^p,$   
 $x], x] /; \text{FreeQ}[\{F, G, H, a, b, c, d, e, f, g, h, r, s, t\}, x] \&\& \text{IGt}$   
 $\text{Q}[p, 0]$
2688.  $\text{Int}[\left((a_.) + (b_.) \cdot (F_.)^{\left((e_.) \cdot \left((c_.) + (d_.) \cdot (x_.)\right)\right)}\right)^{p_.)} \cdot (G_.)^{\left((h_.) \cdot \left((f_.) + (g_.) \cdot (x_.)\right)\right)} \cdot (H_.)^{\left((t_.) \cdot \left((r_.) + (s_.) \cdot (x_.)\right)\right)}, x\_Symbol] \rightarrow$   
 $\text{Simp}[a^p \cdot G^{\left(h \cdot (f + g \cdot x)\right)} \cdot (H^{\left(t \cdot (r + s \cdot x)\right)} / (g \cdot h \cdot \text{Log}[G] + s \cdot t \cdot \text{Log}[H])) \cdot \text{H}$   
 $\text{ypergeometric2F1}[-p, (g \cdot h \cdot \text{Log}[G] + s \cdot t \cdot \text{Log}[H]) / (d \cdot e \cdot \text{Log}[F]), (g \cdot h \cdot \text{Log}[$   
 $G] + s \cdot t \cdot \text{Log}[H]) / (d \cdot e \cdot \text{Log}[F]) + 1, \text{Simplify}[(-b/a) \cdot F^{\left(e \cdot (c + d \cdot x)\right)}],$   
 $x] /; \text{FreeQ}[\{F, G, H, a, b, c, d, e, f, g, h, r, s, t\}, x] \&\& \text{ILtQ}[p,$   
 $0]$
2689.  $\text{Int}[\left((a_.) + (b_.) \cdot (F_.)^{\left((e_.) \cdot \left((c_.) + (d_.) \cdot (x_.)\right)\right)}\right)^{p_.)} \cdot (G_.)^{\left((h_.) \cdot \left((f_.) + (g_.) \cdot (x_.)\right)\right)} \cdot (H_.)^{\left((t_.) \cdot \left((r_.) + (s_.) \cdot (x_.)\right)\right)}, x\_Symbol] \rightarrow$   
 $\text{Simp}[G^{\left(h \cdot (f + g \cdot x)\right)} \cdot H^{\left(t \cdot (r + s \cdot x)\right)} \cdot \left((a + b \cdot F^{\left(e \cdot (c + d \cdot x)\right)})^p / \left((g \cdot h \cdot$   
 $\text{Log}[G] + s \cdot t \cdot \text{Log}[H]) \cdot \left((a + b \cdot F^{\left(e \cdot (c + d \cdot x)\right)}) / a\right)^p\right) \cdot \text{Hypergeometric2F1}$   
 $[-p, (g \cdot h \cdot \text{Log}[G] + s \cdot t \cdot \text{Log}[H]) / (d \cdot e \cdot \text{Log}[F]), (g \cdot h \cdot \text{Log}[G] + s \cdot t \cdot \text{Log}[H])$   
 $/ (d \cdot e \cdot \text{Log}[F]) + 1, \text{Simplify}[(-b/a) \cdot F^{\left(e \cdot (c + d \cdot x)\right)}], x] /; \text{FreeQ}[\{F,$

- G, H, a, b, c, d, e, f, g, h, r, s, t, p}, x] && !IntegerQ[p]
2690.  $\text{Int}[(a_ + (b_ \cdot F_ )^{(e_ \cdot (v_ ))})^{(p_ )} \cdot (G_ )^{(h_ \cdot (u_ ))} \cdot (H_ )^{(t_ \cdot (w_ ))}, x\_Symbol] \rightarrow \text{Int}[G^{(h \cdot \text{ExpandToSum}[u, x])} \cdot H^{(t \cdot \text{ExpandToSum}[w, x])} \cdot (a + b \cdot F^{(e \cdot \text{ExpandToSum}[v, x])})^p, x] /; \text{FreeQ}\{F, G, H, a, b, e, h, t, p\}, x\} \&\& \text{LinearQ}\{u, v, w\}, x\} \&\& !\text{LinearMatchQ}\{u, v, w\}, x\}$
2691.  $\text{Int}[(F_ )^{(e_ \cdot ((c_ ) + (d_ ) \cdot (x_ )))} \cdot ((b_ ) \cdot (F_ )^{(e_ \cdot ((c_ ) + (d_ ) \cdot (x_ )))} + (a_ ) \cdot (x_ )^{(n_ )})^{(p_ )}, x\_Symbol] \rightarrow \text{Simp}[(a \cdot x^n + b \cdot F^{(e \cdot (c + d \cdot x))})^{(p + 1)} / (b \cdot d \cdot e \cdot (p + 1) \cdot \text{Log}[F]), x] - \text{Simp}[a \cdot (n / (b \cdot d \cdot e \cdot \text{Log}[F])) \text{Int}[x^{(n - 1)} \cdot (a \cdot x^n + b \cdot F^{(e \cdot (c + d \cdot x))})^p, x], x] /; \text{FreeQ}\{F, a, b, c, d, e, n, p\}, x\} \&\& \text{NeQ}[p, -1]$
2692.  $\text{Int}[(F_ )^{(e_ \cdot ((c_ ) + (d_ ) \cdot (x_ )))} \cdot (x_ )^{(m_ )} \cdot ((b_ ) \cdot (F_ )^{(e_ \cdot ((c_ ) + (d_ ) \cdot (x_ )))} + (a_ ) \cdot (x_ )^{(n_ )})^{(p_ )}, x\_Symbol] \rightarrow \text{Simp}[x^m \cdot (a \cdot x^n + b \cdot F^{(e \cdot (c + d \cdot x))})^{(p + 1)} / (b \cdot d \cdot e \cdot (p + 1) \cdot \text{Log}[F]), x] + (-\text{Simp}[m / (b \cdot d \cdot e \cdot (p + 1) \cdot \text{Log}[F]) \text{Int}[x^{(m - 1)} \cdot (a \cdot x^n + b \cdot F^{(e \cdot (c + d \cdot x))})^{(p + 1)}, x], x] - \text{Simp}[a \cdot (n / (b \cdot d \cdot e \cdot \text{Log}[F])) \text{Int}[x^{(m + n - 1)} \cdot (a \cdot x^n + b \cdot F^{(e \cdot (c + d \cdot x))})^p, x], x]) /; \text{FreeQ}\{F, a, b, c, d, e, m, n, p\}, x\} \&\& \text{NeQ}[p, -1]$
2693.  $\text{Int}[(f_ ) + (g_ ) \cdot (x_ )^{(m_ )} / ((a_ ) + (b_ ) \cdot (F_ )^{(u_ )} + (c_ ) \cdot (F_ )^{(v_ )}), x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4 \cdot a \cdot c, 2]\}, \text{Simp}[2 \cdot (c/q) \text{Int}[(f + g \cdot x)^m / (b - q + 2 \cdot c \cdot F^u), x], x] - \text{Simp}[2 \cdot (c/q) \text{Int}[(f + g \cdot x)^m / (b + q + 2 \cdot c \cdot F^u), x], x] /; \text{FreeQ}\{F, a, b, c, f, g\}, x\} \&\& \text{EqQ}[v, 2 \cdot u] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{IGtQ}[m, 0]$
2694.  $\text{Int}[(F_ )^{(u_ )} \cdot ((f_ ) + (g_ ) \cdot (x_ )^{(m_ )}) / ((a_ ) + (b_ ) \cdot (F_ )^{(u_ )} + (c_ ) \cdot (F_ )^{(v_ )}), x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4 \cdot a \cdot c, 2]\}, \text{Simp}[2 \cdot (c/q) \text{Int}[(f + g \cdot x)^m \cdot (F^u / (b - q + 2 \cdot c \cdot F^u)), x], x] - \text{Simp}[2 \cdot (c/q) \text{Int}[(f + g \cdot x)^m \cdot (F^u / (b + q + 2 \cdot c \cdot F^u)), x], x] /; \text{FreeQ}\{F, a, b, c, f, g\}, x\} \&\& \text{EqQ}[v, 2 \cdot u] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[b^2 - 4 \cdot a \cdot c, 0] \&\& \text{IGtQ}[m, 0]$
2695.  $\text{Int}[(i_ ) \cdot (F_ )^{(u_ )} + (h_ ) \cdot ((f_ ) + (g_ ) \cdot (x_ )^{(m_ )}) / ((a_ ) + (b_ ) \cdot (F_ )^{(u_ )} + (c_ ) \cdot (F_ )^{(v_ )}), x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4 \cdot a \cdot c, 2]\}, \text{Simp}[(\text{Simplify}[(2 \cdot c \cdot h - b \cdot i) / q] + i) \text{Int}[(f + g \cdot x)^m / (b - q +$

- $2*c*F^u), x], x] - \text{Simp}[(\text{Simplify}[(2*c*h - b*i)/q] - i) \text{ Int}[(f + g*x)^m/(b + q + 2*c*F^u), x], x]] /; \text{FreeQ}\{F, a, b, c, f, g, h, i\}, x] \&\& \text{EqQ}[v, 2*u] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IGtQ}[m, 0]$
2696.  $\text{Int}[(x_)^{(m_.)}/((b_.)*(F_)^{(v_)} + (a_.)*(F_)^{((c_.) + (d_.)*(x_))}), x\_ \text{Symbol}] \rightarrow \text{With}\{u = \text{IntHide}[1/(a*F^{(c + d*x)} + b*F^v), x]\}, \text{Simp}[x^m u, x] - \text{Simp}[m \text{ Int}[x^{(m - 1)}*u, x], x]] /; \text{FreeQ}\{F, a, b, c, d\}, x] \&\& \text{EqQ}[v, -(c + d*x)] \&\& \text{GtQ}[m, 0]$
2697.  $\text{Int}[(u_)/((a_) + (b_.)*(F_)^{(v_)} + (c_.)*(F_)^{(w_)}), x\_ \text{Symbol}] \rightarrow \text{Int}[u*(F^v/(c + a*F^v + b*F^{(2*v)})), x] /; \text{FreeQ}\{F, a, b, c\}, x] \&\& \text{EqQ}[w, -v] \&\& \text{LinearQ}[v, x] \&\& \text{If}[\text{RationalQ}[D[v, x]], \text{GtQ}[D[v, x], 0], \text{LtQ}[\text{LeafCount}[v], \text{LeafCount}[w]]]$
2698.  $\text{Int}[(F_)^{((g_.)*((d_.) + (e_.)*(x_))^{(n_.)})}/((a_) + (b_.)*(x_) + (c_.)*(x_)^2), x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandIntegrand}[F^{(g*(d + e*x)^n)}, 1/(a + b*x + c*x^2), x], x] /; \text{FreeQ}\{F, a, b, c, d, e, g, n\}, x]$
2699.  $\text{Int}[(F_)^{((g_.)*((d_.) + (e_.)*(x_))^{(n_.)})}/((a_) + (c_.)*(x_)^2), x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandIntegrand}[F^{(g*(d + e*x)^n)}, 1/(a + c*x^2), x], x] /; \text{FreeQ}\{F, a, c, d, e, g, n\}, x]$
2700.  $\text{Int}[(F_)^{((g_.)*((d_.) + (e_.)*(x_))^{(n_.)})}*(u_)^{(m_.)}/((a_) + (b_.)*(x_) + (c_.)*(x_)^2), x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandIntegrand}[F^{(g*(d + e*x)^n)}, u^m/(a + b*x + c*x^2), x], x] /; \text{FreeQ}\{F, a, b, c, d, e, g, n\}, x] \&\& \text{PolynomialQ}[u, x] \&\& \text{IntegerQ}[m]$
2701.  $\text{Int}[(F_)^{((g_.)*((d_.) + (e_.)*(x_))^{(n_.)})}*(u_)^{(m_.)}/((a_) + (c_.)*(x_)^2), x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandIntegrand}[F^{(g*(d + e*x)^n)}, u^m/(a + c*x^2), x], x] /; \text{FreeQ}\{F, a, c, d, e, g, n\}, x] \&\& \text{PolynomialQ}[u, x] \&\& \text{IntegerQ}[m]$
2702.  $\text{Int}[(F_)^{(((a_.) + (b_.)*(x_)^4)/(x_)^2)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[\text{Sqrt}[\text{Pi}]*\text{Exp}[2*\text{Sqrt}[(-a)*\text{Log}[F]]*\text{Sqrt}[(-b)*\text{Log}[F]]]*(\text{Erf}[(\text{Sqrt}[(-a)*\text{Log}[F]] + \text{Sqrt}[(-b)*\text{Log}[F]]*x^2)/x]/(4*\text{Sqrt}[(-b)*\text{Log}[F]])), x] - \text{Simp}[\text{Sqrt}[\text{Pi}]*\text{Exp}[-2*\text{Sqrt}[(-a)*\text{Log}[F]]*\text{Sqrt}[(-b)*\text{Log}[F]]]*(\text{Erf}[(\text{Sqrt}[(-a)*\text{Log}[F]] - \text{Sqrt}[-$



- $$t[(-b)*\text{Log}[F]*x^2/x]/(4*\text{Sqrt}[(-b)*\text{Log}[F]]), x] /; \text{FreeQ}\{F, a, b\}, x]$$
2703.  $\text{Int}[(x_)^{(m_.)}*(E^{(x_)} + (x_)^{(m_.)})^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[-(E^x + x^m)^{(n+1)}/(n+1), x] + (\text{Int}[(E^x + x^m)^{(n+1)}, x] + \text{Simp}[m \text{ Int}[x^{(m-1)}*(E^x + x^m)^n, x], x]) /; \text{RationalQ}[m, n] \ \&\& \ \text{GtQ}[m, 0] \ \&\& \ \text{LtQ}[n, 0] \ \&\& \ \text{NeQ}[n, -1]$
2704.  $\text{Int}[(u_)*(F_)^{((a_)*(\text{Log}[z_]*(b_.) + (v_.)))}, x\_Symbol] \rightarrow \text{Int}[u*F^{(a*v)*z^{(a*b*\text{Log}[F])}}, x] /; \text{FreeQ}\{F, a, b\}, x]$
2705.  $\text{Int}[(F_)^{(((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)})^2*(b_.))*(f_.)}), x\_Symbol] \rightarrow \text{Simp}[(d + e*x)/(e*n*(c*(d + e*x)^n)^{(1/n)} \text{Subst}[\text{Int}[E^{(a*f*\text{Log}[F] + x/n + b*f*\text{Log}[F]*x^2)}, x], x, \text{Log}[c*(d + e*x)^n]], x] /; \text{FreeQ}\{F, a, b, c, d, e, f, n\}, x]$
2706.  $\text{Int}[(F_)^{(((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)})^2*(b_.))*(f_.)})*((g_.) + (h_.)*(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(g + h*x)^{(m+1)}/(h*n*(c*(d + e*x)^n)^{(m+1)/n)} \text{Subst}[\text{Int}[E^{(a*f*\text{Log}[F] + ((m+1)*x)/n + b*f*\text{Log}[F]*x^2)}, x], x, \text{Log}[c*(d + e*x)^n]], x] /; \text{FreeQ}\{F, a, b, c, d, e, f, g, h, m, n\}, x] \ \&\& \ \text{EqQ}[e*g - d*h, 0]$
2707.  $\text{Int}[(F_)^{(((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)})^2*(b_.))*(f_.)})*((g_.) + (h_.)*(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/e^{(m+1)} \text{Subst}[\text{Int}[\text{ExpandIntegrand}[F^{(f*(a + b*\text{Log}[c*x^n]^2))}, (e*g - d*h + h*x)^m, x], x], x, d + e*x], x] /; \text{FreeQ}\{F, a, b, c, d, e, f, g, h, n\}, x] \ \&\& \ \text{GtQ}[m, 0]$
2708.  $\text{Int}[(F_)^{(((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)})^2*(b_.))*(f_.)})*((g_.) + (h_.)*(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Unintegrable}[F^{(f*(a + b*\text{Log}[c*(d + e*x)^n]^2))}*(g + h*x)^m, x] /; \text{FreeQ}\{F, a, b, c, d, e, f, g, h, m, n\}, x]$
2709.  $\text{Int}[(F_)^{(((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)})*(b_.))^2*(f_.)}), x\_Symbol] \rightarrow \text{Simp}[c^{(2*a*b*f*\text{Log}[F])} \text{Int}[(d + e*x)^{(2*a*b*f*n*\text{Log}[F])})*F^{(a^2*f + b^2*f*\text{Log}[c*(d + e*x)^n]^2)}, x], x] /; \text{FreeQ}\{F, a, b$

- , c, d, e, f, n}, x] && IntegerQ[2\*a\*b\*f\*Log[F]]
2710.  $\text{Int}[(F\_)^{((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{\text{n\_}}])*(b\_.)^2*(f\_.)}, x\_Symbol] \rightarrow \text{Simp}[(c*(d + e*x)^n)^{(2*a*b*f*Log[F])}/(d + e*x)^{(2*a*b*f*n*Log[F])}]*\text{Int}[(d + e*x)^{(2*a*b*f*n*Log[F])}*F^{(a^2*f + b^2*f*Log[c*(d + e*x)^n]^2)}, x], x] /;$  FreeQ[{F, a, b, c, d, e, f, n}, x] && !IntegerQ[2\*a\*b\*f\*Log[F]]
2711.  $\text{Int}[(F\_)^{((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{\text{n\_}}])*(b\_.)^2*(f\_.)}, x\_Symbol] \rightarrow \text{Simp}[h^m*(c^{(2*a*b*f*Log[F])})/e^m \text{Int}[(d + e*x)^{(m + 2*a*b*f*n*Log[F])}*F^{(a^2*f + b^2*f*Log[c*(d + e*x)^n]^2)}, x], x] /;$  FreeQ[{F, a, b, c, d, e, f, g, h, m, n}, x] && EqQ[e\*g - d\*h, 0] && IntegerQ[2\*a\*b\*f\*Log[F]] && (IntegerQ[m] || EqQ[h, e])
2712.  $\text{Int}[(F\_)^{((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{\text{n\_}}])*(b\_.)^2*(f\_.)}, x\_Symbol] \rightarrow \text{Simp}[(g + h*x)^m*(c*(d + e*x)^n)^{(2*a*b*f*Log[F])}/(d + e*x)^{(m + 2*a*b*f*n*Log[F])}]*\text{Int}[(d + e*x)^{(m + 2*a*b*f*n*Log[F])}*F^{(a^2*f + b^2*f*Log[c*(d + e*x)^n]^2)}, x], x] /;$  FreeQ[{F, a, b, c, d, e, f, g, h, m, n}, x] && EqQ[e\*g - d\*h, 0]
2713.  $\text{Int}[(F\_)^{((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{\text{n\_}}])*(b\_.)^2*(f\_.)}, x\_Symbol] \rightarrow \text{Simp}[1/e^{(m + 1)} \text{Subst}[\text{Int}[\text{ExpandIntegrand}[F^{(f*(a + b*Log[c*x^n])^2)}, (e*g - d*h + h*x)^m, x], x], x, d + e*x], x] /;$  FreeQ[{F, a, b, c, d, e, f, g, h, n}, x] && IntegerQ[m] && GtQ[m, 0]
2714.  $\text{Int}[(F\_)^{((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{\text{n\_}}])*(b\_.)^2*(f\_.)}, x\_Symbol] \rightarrow \text{Unintegrable}[F^{(f*(a + b*Log[c*(d + e*x)^n])^2)}*(g + h*x)^m, x] /;$  FreeQ[{F, a, b, c, d, e, f, g, h, m, n}, x]
2715.  $\text{Int}[\text{Log}[a\_ + (b\_.)*(F\_)^{((e\_.)*((c\_.) + (d\_.)*(x\_)))^{\text{n\_}}}], x\_Symbol] \rightarrow \text{Simp}[1/(d*e*n*Log[F]) \text{Subst}[\text{Int}[\text{Log}[a + b*x]/x, x], x, (F^{(e*(c + d*x))})^n], x] /;$  FreeQ[{F, a, b, c, d, e, n}, x] && GtQ[a, 0]

2716.  $\text{Int}[\text{Log}[(a_) + (b_)\cdot((F_)^{((e_)\cdot((c_) + (d_)\cdot(x_)))})^{(n_)}], x\_Symbol] \rightarrow \text{Simp}[x\cdot\text{Log}[a + b\cdot(F^{(e\cdot(c + d\cdot x)))^n}], x] - \text{Simp}[b\cdot d\cdot e\cdot n\cdot\text{Log}[F] \text{ Int}[x\cdot(F^{(e\cdot(c + d\cdot x)))^n}/(a + b\cdot(F^{(e\cdot(c + d\cdot x)))^n}), x], x] /;$   
 $\text{FreeQ}\{F, a, b, c, d, e, n, x\} \ \&\& \ !\text{GtQ}[a, 0]$
2717.  $\text{Int}[(u_)\cdot((a_)\cdot(F_)^{(v_))})^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[(a\cdot F^v)^n/F^{(n\cdot v)} \text{ Int}[u\cdot F^{(n\cdot v)}, x], x] /;$   
 $\text{FreeQ}\{F, a, n, x\} \ \&\& \ !\text{IntegerQ}[n]$
2718.  $\text{Int}[(F_)^{((d_)\cdot((c_)\cdot((a_) + (b_)\cdot(x_))^{(n_))})^{(m_)}], x\_Symbol] \rightarrow \text{Simp}[(a + b\cdot x)\cdot(F^{(d\cdot(c\cdot(a + b\cdot x))^n})^m)/(b\cdot d\cdot(c\cdot(a + b\cdot x))^n)^m\cdot\text{Log}[F]) , x] /;$   
 $\text{FreeQ}\{F, a, b, c, d, m, n, x\} \ \&\& \ \text{EqQ}[m\cdot n, 1]$
2719.  $\text{Int}[(F_)^{((d_)\cdot((c_)\cdot((a_) + (b_)\cdot(x_))^{(n_))})^{(m_)}], x\_Symbol] \rightarrow \text{Simp}[(- (a + b\cdot x))\cdot(\text{Gamma}[1/(m\cdot n), ((-d)\cdot(c\cdot(a + b\cdot x))^n]^m)\cdot\text{Log}[F])/(b\cdot m\cdot n\cdot((( -d)\cdot(c\cdot(a + b\cdot x))^n)^m)\cdot\text{Log}[F])^{(1/(m\cdot n))}), x] /;$   
 $\text{FreeQ}\{F, a, b, c, d, m, n, x\}$
2720.  $\text{Int}[u_, x\_Symbol] \rightarrow \text{With}\{v = \text{FunctionOfExponential}[u, x]\}, \text{Simp}[v/D[v, x] \text{ Subst}[\text{Int}[\text{FunctionOfExponentialFunction}[u, x]/x, x], x, v], x] /;$   
 $\text{FunctionOfExponentialQ}[u, x] \ \&\& \ !\text{MatchQ}[u, (w_)\cdot((a_)\cdot(v_)^{(n_))})^{(m_)} /;$   
 $\text{FreeQ}\{a, m, n, x\} \ \&\& \ \text{IntegerQ}[m\cdot n] \ \&\& \ !\text{MatchQ}[u, E^{((c_)\cdot((a_)\cdot(v_)\cdot x))}\cdot(F_)[v_]] /;$   
 $\text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{InverseFunctionQ}[F[x]]$
2721.  $\text{Int}[(u_)\cdot((a_)\cdot(F_)^{(v_)} + (b_)\cdot(F_)^{(w_))})^{(n_)}, x\_Symbol] \rightarrow \text{Int}[u\cdot F^{(n\cdot v)}\cdot(a + b\cdot F^{\text{ExpandToSum}[w - v, x]})^n, x] /;$   
 $\text{FreeQ}\{F, a, b, n, x\} \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{LinearQ}\{v, w, x\}$
2722.  $\text{Int}[(u_)\cdot((a_)\cdot(F_)^{(v_)} + (b_)\cdot(G_)^{(w_))})^{(n_)}, x\_Symbol] \rightarrow \text{Int}[u\cdot F^{(n\cdot v)}\cdot(a + b\cdot E^{\text{ExpandToSum}[\text{Log}[G]\cdot w - \text{Log}[F]\cdot v, x]})^n, x] /;$   
 $\text{FreeQ}\{F, G, a, b, n, x\} \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{LinearQ}\{v, w, x\}$
2723.  $\text{Int}[(u_)\cdot((a_)\cdot(F_)^{(v_)} + (b_)\cdot(F_)^{(w_))})^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[(a\cdot F^v + b\cdot F^w)^n/(F^{(n\cdot v)}\cdot(a + b\cdot F^{\text{ExpandToSum}[w - v, x]})^n) \text{ Int}[u\cdot F^{(n\cdot v)}\cdot(a + b\cdot F^{\text{ExpandToSum}[w - v, x]})^n, x], x] /;$   
 $\text{FreeQ}\{F, a, b, n, x\} \ \&\& \ !\text{IntegerQ}[n] \ \&\& \ \text{LinearQ}\{v, w, x\}$

2724.  $\text{Int}[(u\_)*(a\_)*(F\_)^{(v\_)} + (b\_)*(G\_)^{(w\_)}]^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[(a*F^v + b*G^w)^n / (F^{(n*v)} * (a + b*E^{\text{ExpandToSum}[\text{Log}[G]*w - \text{Log}[F]*v, x]}))]^n \text{Int}[u*F^{(n*v)} * (a + b*E^{\text{ExpandToSum}[\text{Log}[G]*w - \text{Log}[F]*v, x]})]^n, x], x] /; \text{FreeQ}\{F, G, a, b, n\}, x\} \&\& \text{IntegerQ}[n] \&\& \text{LinearQ}\{v, w\}, x]$
2725.  $\text{Int}[(u\_)*(F\_)^{(v\_)}*(G\_)^{(w\_)}], x\_Symbol] \rightarrow \text{With}\{z = v*\text{Log}[F] + w*\text{Log}[G]\}, \text{Int}[u*\text{NormalizeIntegrand}[E^z, x], x] /; \text{BinomialQ}[z, x] \mid\mid (\text{PolynomialQ}[z, x] \&\& \text{LeQ}[\text{Exponent}[z, x], 2])\} /; \text{FreeQ}\{F, G\}, x]$
2726.  $\text{Int}[(y\_)*(F\_)^{(u\_)}*((v\_)+(w\_))], x\_Symbol] \rightarrow \text{With}\{z = v*(y/(\text{Log}[F]*D[u, x]))\}, \text{Simp}[F^{u*z}, x] /; \text{EqQ}[D[z, x], w*y] /; \text{FreeQ}[F, x]$
2727.  $\text{Int}[(F\_)^{(u\_)}*(v\_)^{(n\_)}*(w\_)], x\_Symbol] \rightarrow \text{With}\{z = \text{Log}[F]*v*D[u, x] + (n + 1)*D[v, x]\}, \text{Simp}[(\text{Coefficient}[w, x, \text{Exponent}[w, x]]/\text{Coefficient}[z, x, \text{Exponent}[z, x]])*F^{u*v^{(n + 1)}}, x] /; \text{EqQ}[\text{Exponent}[w, x], \text{Exponent}[z, x]] \&\& \text{EqQ}[w*\text{Coefficient}[z, x, \text{Exponent}[z, x]], z*\text{Coefficient}[w, x, \text{Exponent}[w, x]]] /; \text{FreeQ}\{F, n\}, x\} \&\& \text{PolynomialQ}[u, x] \&\& \text{PolynomialQ}[v, x] \&\& \text{PolynomialQ}[w, x]$
2728.  $\text{Int}[(a\_)+(b\_)*(F\_)^{((c\_)*\text{Sqrt}[(d\_)+(e\_)*(x\_)]/\text{Sqrt}[(f\_)+(g\_)*(x_)])}^{(n\_)} / ((A\_)+(B\_)*(x_)+(C\_)*(x_)^2), x\_Symbol] \rightarrow \text{Simp}[2*e*(g/(C*(e*f - d*g))) \text{Subst}[\text{Int}[(a + b*F^{(c*x)})^n/x, x], x, \text{Sqrt}[d + e*x]/\text{Sqrt}[f + g*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, C, F\}, x\} \&\& \text{EqQ}[C*d*f - A*e*g, 0] \&\& \text{EqQ}[B*e*g - C*(e*f + d*g), 0] \&\& \text{IGtQ}[n, 0]$
2729.  $\text{Int}[(a\_)+(b\_)*(F\_)^{((c\_)*\text{Sqrt}[(d\_)+(e\_)*(x_)]/\text{Sqrt}[(f\_)+(g\_)*(x_)])}^{(n\_)} / ((A\_)+(C\_)*(x_)^2), x\_Symbol] \rightarrow \text{Simp}[2*e*(g/(C*(e*f - d*g))) \text{Subst}[\text{Int}[(a + b*F^{(c*x)})^n/x, x], x, \text{Sqrt}[d + e*x]/\text{Sqrt}[f + g*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, C, F\}, x\} \&\& \text{EqQ}[C*d*f - A*e*g, 0] \&\& \text{EqQ}[e*f + d*g, 0] \&\& \text{IGtQ}[n, 0]$
2730.  $\text{Int}[(a\_)+(b\_)*(F\_)^{((c\_)*\text{Sqrt}[(d\_)+(e\_)*(x_)]/\text{Sqrt}[(f\_)+(g\_)*(x_)])}^{(n\_)} / ((A\_)+(B\_)*(x_)+(C\_)*(x_)^2), x\_Symbol] \rightarrow$

- $$\text{Unintegrable}[(a + bF^{\frac{c\sqrt{d+ex}}{\sqrt{f+gx}}})^n/(A + Bx + Cx^2), x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, C, F, n\}, x] \&\& \text{EqQ}[C*d*f - A*e*g, 0] \&\& \text{EqQ}[B*e*g - C*(e*f + d*g), 0] \&\& !\text{IGtQ}[n, 0]$$
2731. 
$$\text{Int}[(a_.) + (b_.)*(F_.)^{\frac{(c_.)\sqrt{(d_.) + (e_.)*(x_.)}}{\sqrt{(f_.) + (g_.)*(x_.)}}})^{(n_.)}/((A_.) + (C_.)*(x_.)^2), x\_Symbol] \rightarrow \text{Unintegrable}[(a + bF^{\frac{c\sqrt{d+ex}}{\sqrt{f+gx}}})^n/(A + Cx^2), x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, C, F, n\}, x] \&\& \text{EqQ}[C*d*f - A*e*g, 0] \&\& \text{EqQ}[e*f + d*g, 0] \&\& !\text{IGtQ}[n, 0]$$
2732. 
$$\text{Int}[\text{Log}[(c_.)*(x_.)^{(n_.)}], x\_Symbol] \rightarrow \text{Simp}[x*\text{Log}[c*x^n], x] - \text{Simp}[n*x, x] /; \text{FreeQ}\{c, n\}, x]$$
2733. 
$$\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]]*(b_.)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x*(a + b*\text{Log}[c*x^n])^p, x] - \text{Simp}[b*n*p \text{ Int}[(a + b*\text{Log}[c*x^n])^{(p-1)}, x], x] /; \text{FreeQ}\{a, b, c, n\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{IntegerQ}[2*p]$$
2734. 
$$\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]]*(b_.)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x*((a + b*\text{Log}[c*x^n])^{(p+1)})/(b*n*(p+1)), x] - \text{Simp}[1/(b*n*(p+1)) \text{ Int}[(a + b*\text{Log}[c*x^n])^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, n\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2*p]$$
2735. 
$$\text{Int}[\text{Log}[(c_.)*(x_.)^{(-1)}], x\_Symbol] \rightarrow \text{Simp}[\text{LogIntegral}[c*x]/c, x] /; \text{FreeQ}[c, x]$$
2736. 
$$\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]]*(b_.)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/(n*c^{(1/n)}) \text{ Subst}[\text{Int}[E^{(x/n)}*(a + b*x)^p, x], x, \text{Log}[c*x^n]], x] /; \text{FreeQ}\{a, b, c, p\}, x] \&\& \text{IntegerQ}[1/n]$$
2737. 
$$\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]]*(b_.)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x/(n*c*x^n)^{(1/n)} \text{ Subst}[\text{Int}[E^{(x/n)}*(a + b*x)^p, x], x, \text{Log}[c*x^n]], x] /; \text{FreeQ}\{a, b, c, n, p\}, x]$$
2738. 
$$\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]]*(b_.)/(x_.), x\_Symbol] \rightarrow \text{Simp}[(a + b*\text{Log}[c*x^n])^2/(2*b*n), x] /; \text{FreeQ}\{a, b, c, n\}, x]$$

2739.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.))^{(p_.)}/(x_), x\_Symbol] \rightarrow \text{Simp}[1/(b*n) \text{ Subst}[\text{Int}[x^p, x], x, a + b*\text{Log}[c*x^n]], x] /; \text{FreeQ}[\{a, b, c, n, p\}, x]$
2740.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.))*((d_.)(x_)^{(m_.)}), x\_Symbol] \rightarrow \text{Simp}[b*(d*x)^{(m+1)}*(\text{Log}[c*x^n]/(d*(m+1))), x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& \text{NeQ}[m, -1] \&\& \text{EqQ}[a*(m+1) - b*n, 0]$
2741.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.))*((d_.)(x_)^{(m_.)}), x\_Symbol] \rightarrow \text{Simp}[(d*x)^{(m+1)}*((a + b*\text{Log}[c*x^n])/(d*(m+1))), x] - \text{Simp}[b*n*((d*x)^{(m+1)}/(d*(m+1)^2)), x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& \text{NeQ}[m, -1]$
2742.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.))^{(p_.)*((d_.)(x_)^{(m_.)}), x\_Symbol] \rightarrow \text{Simp}[(d*x)^{(m+1)}*((a + b*\text{Log}[c*x^n])^p/(d*(m+1))), x] - \text{Simp}[b*n*(p/(m+1)) \text{ Int}[(d*x)^m*(a + b*\text{Log}[c*x^n])^{(p-1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& \text{NeQ}[m, -1] \&\& \text{GtQ}[p, 0]$
2743.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.))^{(p)}*((d_.)(x_)^{(m_.)}), x\_Symbol] \rightarrow \text{Simp}[(d*x)^{(m+1)}*((a + b*\text{Log}[c*x^n])^{(p+1)}/(b*d*n*(p+1))), x] - \text{Simp}[(m+1)/(b*n*(p+1)) \text{ Int}[(d*x)^m*(a + b*\text{Log}[c*x^n])^{(p+1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& \text{NeQ}[m, -1] \&\& \text{LtQ}[p, -1]$
2744.  $\text{Int}[(x_)^{(m_.)}/\text{Log}[(c_.)(x_)^{(n_.)}], x\_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[1/\text{Log}[c*x], x], x, x^n], x] /; \text{FreeQ}[\{c, m, n\}, x] \&\& \text{EqQ}[m, n - 1]$
2745.  $\text{Int}[(d_.)(x_)^{(m_.)}/\text{Log}[(c_.)(x_)^{(n_.)}], x\_Symbol] \rightarrow \text{Simp}[(d*x)^m/x^m \text{ Int}[x^m/\text{Log}[c*x^n], x], x] /; \text{FreeQ}[\{c, d, m, n\}, x] \&\& \text{EqQ}[m, n - 1]$
2746.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)](b_.))^{(p)}*(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/c^{(m+1)} \text{ Subst}[\text{Int}[E^{((m+1)*x)}*(a + b*x)^p, x], x, \text{Log}[c*x]], x] /; \text{FreeQ}[\{a, b, c, p\}, x] \&\& \text{IntegerQ}[m]$

2747.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)^{(p_.)}((d_.)*(x_.)^{(m_.)}), x\_Symbol] \rightarrow \text{Simp}[(d*x)^{(m+1)}/(d*n*(c*x^n)^{(m+1)/n}) \text{ Subst}[\text{Int}[E^{((m+1)/n)*x}*(a+b*x)^p, x], x, \text{Log}[c*x^n], x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x]$
2748.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)^{(p_.)}((d_.)*(x_.)^{(q_.)})^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(d*x^q)^m/x^{(m*q)} \text{ Int}[x^{(m*q)}*(a+b*\text{Log}[c*x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n, p, q\}, x]$
2749.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)^{(p_.)}((d1_.)*(x_.)^{(q1_.)})^{(m1_.)}((d2_.)*(x_.)^{(q2_.)})^{(m2_.)}, x\_Symbol] \rightarrow \text{Simp}[(d1*x^{q1})^{m1}((d2*x^{q2})^{m2}/x^{(m1*q1+m2*q2)}) \text{ Int}[x^{(m1*q1+m2*q2)}*(a+b*\text{Log}[c*x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d1, d2, m1, m2, n, p, q1, q2\}, x]$
2750.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)*((d_.) + (e_.)*(x_.)^{(r_.)})^{(q_.)}, x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[(d + e*x^r)^q, x]\}, \text{Simp}[(a + b*\text{Log}[c*x^n]) u, x] - \text{Simp}[b*n \text{ Int}[\text{SimplifyIntegrand}[u/x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, n, r\}, x] \&\& \text{IGtQ}[q, 0]$
2751.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)*((d_.) + (e_.)*(x_.)^{(r_.)})^{(q_.)}, x\_Symbol] \rightarrow \text{Simp}[x*(d + e*x^r)^{(q+1)}*((a + b*\text{Log}[c*x^n])/d), x] - \text{Simp}[b*(n/d) \text{ Int}[(d + e*x^r)^{(q+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n, q, r\}, x] \&\& \text{EqQ}[r*(q+1) + 1, 0]$
2752.  $\text{Int}[\text{Log}[(c_.)*(x_.)]/((d_.) + (e_.)*(x_)), x\_Symbol] \rightarrow \text{Simp}[(-e^{-1})*\text{PolyLog}[2, 1 - c*x], x] /; \text{FreeQ}\{c, d, e\}, x] \&\& \text{EqQ}[e + c*d, 0]$
2753.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)](b_.)]/((d_.) + (e_.)*(x_)), x\_Symbol] \rightarrow \text{Simp}[(a + b*\text{Log}[(-c)*(d/e)])*(\text{Log}[d + e*x]/e), x] + \text{Simp}[b \text{ Int}[\text{Log}[(-e)*(x/d)]/(d + e*x), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{GtQ}[(-c)*(d/e), 0]$
2754.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)^{(p_.)}]/((d_.) + (e_.)*(x_)), x\_Symbol] \rightarrow \text{Simp}[\text{Log}[1 + e*(x/d)]*((a + b*\text{Log}[c*x^n])^p/e), x] - \text{Simp}[b*n*(p/e) \text{ Int}[\text{Log}[1 + e*(x/d)]*((a + b*\text{Log}[c*x^n])^{(p-1)}/x), x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[p, 0]$

2755.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot (b))^{(p)} / ((d) + (e) \cdot x)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot ((a + b \cdot \text{Log}[c \cdot x^n])^p / (d \cdot (d + e \cdot x))), x] - \text{Simp}[b \cdot n \cdot (p/d) \text{Int}[(a + b \cdot \text{Log}[c \cdot x^n])^{(p-1)} / (d + e \cdot x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, p\}, x] \&\& \text{GtQ}[p, 0]$
2756.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot (b))^{(p)} \cdot ((d) + (e) \cdot x)^{(q)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e \cdot x)^{(q+1)} \cdot ((a + b \cdot \text{Log}[c \cdot x^n])^p / (e \cdot (q + 1))), x] - \text{Simp}[b \cdot n \cdot (p / (e \cdot (q + 1))) \text{Int}[(d + e \cdot x)^{(q+1)} \cdot (a + b \cdot \text{Log}[c \cdot x^n])^{(p-1)} / x, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, p, q\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[q, -1] \&\& (\text{EqQ}[p, 1] \parallel (\text{IntegersQ}[2 \cdot p, 2 \cdot q] \&\& !\text{IGtQ}[q, 0]) \parallel (\text{EqQ}[p, 2] \&\& \text{NeQ}[q, 1]))$
2757.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot (b))^{(p)} \cdot ((d) + (e) \cdot x)^{(q)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot (d + e \cdot x)^q \cdot ((a + b \cdot \text{Log}[c \cdot x^n])^{(p+1)} / (b \cdot n \cdot (p + 1))), x] + (-\text{Simp}[(q + 1) / (b \cdot n \cdot (p + 1)) \text{Int}[(d + e \cdot x)^q \cdot (a + b \cdot \text{Log}[c \cdot x^n])^{(p+1)}, x], x] + \text{Simp}[d \cdot (q / (b \cdot n \cdot (p + 1))) \text{Int}[(d + e \cdot x)^{(q-1)} \cdot (a + b \cdot \text{Log}[c \cdot x^n])^{(p+1)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 0]$
2758.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot (b)) \cdot ((d) + (e) \cdot x^2)^{(q)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot (d + e \cdot x^2)^q \cdot ((a + b \cdot \text{Log}[c \cdot x^n]) / (2 \cdot q + 1)), x] + (-\text{Simp}[b \cdot (n / (2 \cdot q + 1)) \text{Int}[(d + e \cdot x^2)^q, x], x] + \text{Simp}[2 \cdot d \cdot (q / (2 \cdot q + 1)) \text{Int}[(d + e \cdot x^2)^{(q-1)} \cdot (a + b \cdot \text{Log}[c \cdot x^n]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{GtQ}[q, 0]$
2759.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot (b)) / ((d) + (e) \cdot x^2)^{(3/2)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot ((a + b \cdot \text{Log}[c \cdot x^n]) / (d \cdot \text{Sqrt}[d + e \cdot x^2])), x] - \text{Simp}[b \cdot (n/d) \text{Int}[1/\text{Sqrt}[d + e \cdot x^2], x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x]$
2760.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot (b)) \cdot ((d) + (e) \cdot x^2)^{(q)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-x) \cdot (d + e \cdot x^2)^{(q+1)} \cdot ((a + b \cdot \text{Log}[c \cdot x^n]) / (2 \cdot d \cdot (q + 1))), x] + (\text{Simp}[(2 \cdot q + 3) / (2 \cdot d \cdot (q + 1)) \text{Int}[(d + e \cdot x^2)^{(q+1)} \cdot (a + b \cdot \text{Log}[c \cdot x^n]), x], x] + \text{Simp}[b \cdot (n / (2 \cdot d \cdot (q + 1))) \text{Int}[(d + e \cdot x^2)^{(q+1)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{LtQ}[q, -1]$



2761.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)] / ((d_) + (e_.)(x_)^2), x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[1/(d + e*x^2), x]\}, \text{Simp}[u*(a + b*\text{Log}[c*x^n]), x] - \text{Simp}[b*n \text{ Int}[u/x, x], x]] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x]$
2762.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)] / \text{Sqrt}[(d_) + (e_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[\text{ArcSinh}[\text{Rt}[e, 2]*(x/\text{Sqrt}[d])]]*((a + b*\text{Log}[c*x^n])/\text{Rt}[e, 2]), x] - \text{Simp}[b*(n/\text{Rt}[e, 2]) \text{ Int}[\text{ArcSinh}[\text{Rt}[e, 2]*(x/\text{Sqrt}[d])]]/x, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{GtQ}[d, 0] \&\& \text{PosQ}[e]$
2763.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)] / \text{Sqrt}[(d_) + (e_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[\text{ArcSin}[\text{Rt}[-e, 2]*(x/\text{Sqrt}[d])]]*((a + b*\text{Log}[c*x^n])/\text{Rt}[-e, 2]), x] - \text{Simp}[b*(n/\text{Rt}[-e, 2]) \text{ Int}[\text{ArcSin}[\text{Rt}[-e, 2]*(x/\text{Sqrt}[d])]]/x, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{GtQ}[d, 0] \&\& \text{NegQ}[e]$
2764.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)] / \text{Sqrt}[(d_) + (e_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 + (e/d)*x^2]/\text{Sqrt}[d + e*x^2] \text{ Int}[(a + b*\text{Log}[c*x^n])/\text{Sqrt}[1 + (e/d)*x^2], x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& !\text{GtQ}[d, 0]$
2765.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)] / (\text{Sqrt}[(d1_) + (e1_.)(x_)]*\text{Sqrt}[(d2_) + (e2_.)(x_)]), x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 + e1*(e2/(d1*d2))*x^2]/(\text{Sqrt}[d1 + e1*x]*\text{Sqrt}[d2 + e2*x]) \text{ Int}[(a + b*\text{Log}[c*x^n])/\text{Sqrt}[1 + e1*(e2/(d1*d2))*x^2], x], x] /; \text{FreeQ}[\{a, b, c, d1, e1, d2, e2, n\}, x] \&\& \text{EqQ}[d2*e1 + d1*e2, 0]$
2766.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)]*((d_) + (e_.)(x_)^{(r_.)})^{(q_.)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(d + e*x^r)^q, x]\}, \text{Simp}[(a + b*\text{Log}[c*x^n]) u, x] - \text{Simp}[b*n \text{ Int}[\text{SimplifyIntegrand}[u/x, x], x], x] /; (\text{EqQ}[r, 1] \&\& \text{IntegerQ}[q - 1/2]) || (\text{EqQ}[r, 2] \&\& \text{EqQ}[q, -1]) || \text{InverseFunctionFreeQ}[u, x]] /; \text{FreeQ}[\{a, b, c, d, e, n, q, r\}, x] \&\& \text{IntegerQ}[2*q] \&\& \text{IntegerQ}[r]$
2767.  $\text{Int}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)]^{(p_.)}*((d_) + (e_.)(x_)^{(r_.)})^{(q_.)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[(a + b*\text{Log}[c*x^n])^p, (d + e*x^r)^q, x]\}, \text{Int}[u, x] /; \text{SumQ}[u]] /; \text{FreeQ}[\{a, b, c, d, e, n, p, q, r\}, x] \&\& \text{IntegerQ}[q] \&\& (\text{GtQ}[q, 0] || (\text{IGtQ}[p, 0] \&\& \text{IntegerQ}$

- [r]))
2768.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot b)^p \cdot (d + e \cdot x^r)^q]$ ,  $x$  Symbol]  $\rightarrow$  Unintegrable[(d + e\*x^r)^q\*(a + b\*Log[c\*x^n])^p, x] /; FreeQ[{a, b, c, d, e, n, p, q, r}, x]
2769.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot b)^p \cdot u^q]$ ,  $x$  Symbol]  $\rightarrow$  Int[ExpandToSum[u, x]^q\*(a + b\*Log[c\*x^n])^p, x] /; FreeQ[{a, b, c, n, p, q}, x] && BinomialQ[u, x] && !BinomialMatchQ[u, x]
2770.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot b)^p \cdot (d + e/x)^q \cdot x^m]$ ,  $x$  Symbol]  $\rightarrow$  Int[(e + d\*x)^q\*(a + b\*Log[c\*x^n])^p, x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && EqQ[m, q] && IntegerQ[q]
2771.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot b) \cdot x^m \cdot (d + e \cdot x^r)^q]$ ,  $x$  Symbol]  $\rightarrow$  With[{u = IntHide[x^m\*(d + e\*x^r)^q, x]}, Simp[u\*(a + b\*Log[c\*x^n]), x] - Simp[b\*n Int[SimplifyIntegrand[u/x, x], x]] /; FreeQ[{a, b, c, d, e, n, r}, x] && IGtQ[q, 0] && IGtQ[m, 0]
2772.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot b) \cdot x^m \cdot (d + e \cdot x^r)^q]$ ,  $x$  Symbol]  $\rightarrow$  With[{u = IntHide[x^m\*(d + e\*x^r)^q, x]}, Simp[(a + b\*Log[c\*x^n]) u, x] - Simp[b\*n Int[SimplifyIntegrand[u/x, x], x]] /; FreeQ[{a, b, c, d, e, n, r}, x] && IGtQ[q, 0] && IntegerQ[m] && !(EqQ[q, 1] && EqQ[m, -1])
2773.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot b) \cdot (f \cdot x)^m \cdot (d + e \cdot x^r)^q]$ ,  $x$  Symbol]  $\rightarrow$  Simp[(f\*x)^(m + 1)\*(d + e\*x^r)^(q + 1)\*((a + b\*Log[c\*x^n])/(d\*f\*(m + 1))), x] - Simp[b\*(n/(d\*(m + 1))) Int[(f\*x)^m\*(d + e\*x^r)^(q + 1), x], x] /; FreeQ[{a, b, c, d, e, f, m, n, q, r}, x] && EqQ[m + r\*(q + 1) + 1, 0] && NeQ[m, -1]
2774.  $\text{Int}[(a + \text{Log}[c \cdot x^n] \cdot b)^p \cdot (f \cdot x)^m \cdot (d + e \cdot x^r)^q]$ ,  $x$  Symbol]  $\rightarrow$  Simp[f^m/n Subst[Int[(d + e\*x)^q\*(a + b\*Log[c\*x])^p, x], x, x^n], x] /; FreeQ[{a, b, c, d, e, f, m, n, q, r}, x] && EqQ[m, r - 1] && IGtQ[p, 0] && (IntegerQ[m] || GtQ[

- f, 0]) && EqQ[r, n]
2775.  $\text{Int}[\frac{((a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}])*(b_{.})^{(p_{.})}*((f_{.})*(x_{.}))^{(m_{.})}}{(d_{.}) + (e_{.})*(x_{.})^{(r_{.})}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[f^m \text{Log}[1 + e*(x^r/d)]*((a + b*\text{Log}[c*x^n])^p/(e*r)), x] - \text{Simp}[b*f^m*n*(p/(e*r)) \text{Int}[\text{Log}[1 + e*(x^r/d)]*((a + b*\text{Log}[c*x^n])^{(p-1)}/x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, r\}, x] \&\& \text{EqQ}[m, r-1] \&\& \text{IGtQ}[p, 0] \&\& (\text{IntegerQ}[m] \parallel \text{GtQ}[f, 0]) \&\& \text{NeQ}[r, n]$
2776.  $\text{Int}[\frac{((a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}])*(b_{.})^{(p_{.})}*((f_{.})*(x_{.}))^{(m_{.})}*((d_{.}) + (e_{.})*(x_{.})^{(r_{.})})^{(q_{.})}}{x_{\text{Symbol}}] \rightarrow \text{Simp}[f^m*(d + e*x^r)^{(q+1)}*((a + b*\text{Log}[c*x^n])^p/(e*r*(q+1))), x] - \text{Simp}[b*f^m*n*(p/(e*r*(q+1))) \text{Int}[(d + e*x^r)^{(q+1)}*((a + b*\text{Log}[c*x^n])^{(p-1)}/x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, q, r\}, x] \&\& \text{EqQ}[m, r-1] \&\& \text{IGtQ}[p, 0] \&\& (\text{IntegerQ}[m] \parallel \text{GtQ}[f, 0]) \&\& \text{NeQ}[r, n] \&\& \text{NeQ}[q, -1]$
2777.  $\text{Int}[\frac{((a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}])*(b_{.})^{(p_{.})}*((f_{.})*(x_{.}))^{(m_{.})}*((d_{.}) + (e_{.})*(x_{.})^{(r_{.})})^{(q_{.})}}{x_{\text{Symbol}}] \rightarrow \text{Simp}[(f*x)^m/x^m \text{Int}[x^m*(d + e*x^r)^q*(a + b*\text{Log}[c*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, q, r\}, x] \&\& \text{EqQ}[m, r-1] \&\& \text{IGtQ}[p, 0] \&\& !(\text{IntegerQ}[m] \parallel \text{GtQ}[f, 0])$
2778.  $\text{Int}[\frac{((a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}])*(b_{.})}{((x_{.})*((d_{.}) + (e_{.})*(x_{.})^{(r_{.})}))}, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/n \text{Subst}[\text{Int}[(a + b*\text{Log}[c*x])/((x*(d + e*x^r/n))], x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, e, n, r\}, x] \&\& \text{IntegerQ}[r/n]$
2779.  $\text{Int}[\frac{((a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}])*(b_{.})^{(p_{.})}}{((x_{.})*((d_{.}) + (e_{.})*(x_{.})^{(r_{.})}))}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-\text{Log}[1 + d/(e*x^r)])*((a + b*\text{Log}[c*x^n])^p/(d*r)), x] + \text{Simp}[b*n*(p/(d*r)) \text{Int}[\text{Log}[1 + d/(e*x^r)]*((a + b*\text{Log}[c*x^n])^{(p-1)}/x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, r\}, x] \&\& \text{IGtQ}[p, 0]$
2780.  $\text{Int}[\frac{((a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}])*(b_{.})^{(p_{.})}*(x_{.})^{(m_{.})}}{(d_{.}) + (e_{.})*(x_{.})^{(r_{.})}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/d \text{Int}[x^m*(a + b*\text{Log}[c*x^n])^p, x], x] - \text{Simp}[e/d \text{Int}[(x^{(m+r)}*(a + b*\text{Log}[c*x^n])^p)/(d + e*x^r), x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, r\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[r, 0]$

- , 0] && ILtQ[m, -1]
2781.  $\text{Int}[\left((a_{\cdot}) + \text{Log}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}]\right)(b_{\cdot})^{(p_{\cdot})}((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-f*x)^{(m+1)}*(d+e*x)^{(q+1)}*(a+b*\text{Log}[c*x^n])^p/(d*f*(q+1)), x] + \text{Simp}[b*n*(p/(d*(q+1)))] \text{Int}[(f*x)^m*(d+e*x)^{(q+1)}*(a+b*\text{Log}[c*x^n])^{(p-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, q\}, x] \&\& \text{EqQ}[m+q+2, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{LtQ}[q, -1]$
2782.  $\text{Int}[\left((a_{\cdot}) + \text{Log}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}]\right)(b_{\cdot})(x_{\cdot})^{(m_{\cdot})}((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{With}\{u = \text{IntHide}[x^m*(d+e*x)^q, x]\}, \text{Simp}[(a+b*\text{Log}[c*x^n]) u, x] - \text{Simp}[b*n \text{Int}[\text{SimplifyIntegrand}[u/x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{ILtQ}[m+q+2, 0] \&\& \text{IGtQ}[m, 0]$
2783.  $\text{Int}[\left((a_{\cdot}) + \text{Log}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}]\right)(b_{\cdot})^{(p_{\cdot})}((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-f*x)^{(m+1)}*(d+e*x)^{(q+1)}*(a+b*\text{Log}[c*x^n])^p/(d*f*(q+1)), x] + (\text{Simp}[(m+q+2)/(d*(q+1)] \text{Int}[(f*x)^m*(d+e*x)^{(q+1)}*(a+b*\text{Log}[c*x^n])^p, x], x] + \text{Simp}[b*n*(p/(d*(q+1)))] \text{Int}[(f*x)^m*(d+e*x)^{(q+1)}*(a+b*\text{Log}[c*x^n])^{(p-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{ILtQ}[m+q+2, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{LtQ}[q, -1] \&\& \text{GtQ}[m, 0]$
2784.  $\text{Int}[\left((a_{\cdot}) + \text{Log}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}]\right)(b_{\cdot})((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(f*x)^m*(d+e*x)^{(q+1)}*(a+b*\text{Log}[c*x^n])/(e*(q+1)), x] - \text{Simp}[f/(e*(q+1)] \text{Int}[(f*x)^{(m-1)}*(d+e*x)^{(q+1)}*(a*m+b*n+b*m*\text{Log}[c*x^n]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{ILtQ}[q, -1] \&\& \text{GtQ}[m, 0]$
2785.  $\text{Int}[\left((a_{\cdot}) + \text{Log}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}]\right)(b_{\cdot})((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-f*x)^{(m+1)}*(d+e*x^2)^{(q+1)}*(a+b*\text{Log}[c*x^n])/(2*d*f*(q+1)), x] + \text{Simp}[1/(2*d*(q+1))] \text{Int}[(f*x)^m*(d+e*x^2)^{(q+1)}*(a*(m+2*q+3)+b*n+b*(m+2*q+3)*\text{Log}[c*x^n]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{ILtQ}[q, -1] \&\& \text{ILtQ}[m, 0]$

2786.  $\text{Int}[\left((a_{\_}) + \text{Log}[(c_{\_}) \cdot (x_{\_})^{(n_{\_})}] \cdot (b_{\_})\right) \cdot (x_{\_})^{(m_{\_})} \cdot \left((d_{\_}) + (e_{\_}) \cdot (x_{\_})^2\right)^{(q_{\_})}, x_{\_}\text{Symbol}] \rightarrow \text{Simp}[d^{\text{IntPart}[q]} \cdot \left((d + e \cdot x^2)^{\text{FracPart}[q]} / (1 + (e/d) \cdot x^2)^{\text{FracPart}[q]}\right) \text{Int}[x^m \cdot (1 + (e/d) \cdot x^2)^q \cdot (a + b \cdot \text{Log}[c \cdot x^n]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \ \&\& \ \text{IntegerQ}[m/2] \ \&\& \ \text{IntegerQ}[q - 1/2] \ \&\& \ \text{!(LtQ}[m + 2 \cdot q, -2] \ || \ \text{GtQ}[d, 0])]$
2787.  $\text{Int}[\left((a_{\_}) + \text{Log}[(c_{\_}) \cdot (x_{\_})^{(n_{\_})}] \cdot (b_{\_})\right) \cdot (x_{\_})^{(m_{\_})} \cdot \left((d1_{\_}) + (e1_{\_}) \cdot (x_{\_})\right)^{(q_{\_})} \cdot \left((d2_{\_}) + (e2_{\_}) \cdot (x_{\_})\right)^{(q_{\_})}, x_{\_}\text{Symbol}] \rightarrow \text{Simp}[\left((d1 + e1 \cdot x)^q \cdot \left((d2 + e2 \cdot x)^q / (1 + e1 \cdot (e2 / (d1 \cdot d2)) \cdot x^2)\right)^q\right) \text{Int}[x^m \cdot (1 + e1 \cdot (e2 / (d1 \cdot d2)) \cdot x^2)^q \cdot (a + b \cdot \text{Log}[c \cdot x^n]), x], x] /; \text{FreeQ}[\{a, b, c, d1, e1, d2, e2, n\}, x] \ \&\& \ \text{EqQ}[d2 \cdot e1 + d1 \cdot e2, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{IntegerQ}[q - 1/2]$
2788.  $\text{Int}[\left(\left(\left(a_{\_}\right) + \text{Log}[(c_{\_}) \cdot (x_{\_})^{(n_{\_})}] \cdot (b_{\_})\right)^{(p_{\_})} \cdot \left((d_{\_}) + (e_{\_}) \cdot (x_{\_})\right)^{(q_{\_})}\right) / (x_{\_}), x_{\_}\text{Symbol}] \rightarrow \text{Simp}[d \ \text{Int}[(d + e \cdot x)^{(q - 1)} \cdot (a + b \cdot \text{Log}[c \cdot x^n])^p / x], x], x] + \text{Simp}[e \ \text{Int}[(d + e \cdot x)^{(q - 1)} \cdot (a + b \cdot \text{Log}[c \cdot x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{IntegerQ}[2 \cdot q]$
2789.  $\text{Int}[\left(\left(\left(a_{\_}\right) + \text{Log}[(c_{\_}) \cdot (x_{\_})^{(n_{\_})}] \cdot (b_{\_})\right)^{(p_{\_})} \cdot \left((d_{\_}) + (e_{\_}) \cdot (x_{\_})\right)^{(q_{\_})}\right) / (x_{\_}), x_{\_}\text{Symbol}] \rightarrow \text{Simp}[1/d \ \text{Int}[(d + e \cdot x)^{(q + 1)} \cdot (a + b \cdot \text{Log}[c \cdot x^n])^p / x], x], x] - \text{Simp}[e/d \ \text{Int}[(d + e \cdot x)^q \cdot (a + b \cdot \text{Log}[c \cdot x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{IntegerQ}[2 \cdot q]$
2790.  $\text{Int}[\left(\left(\left(a_{\_}\right) + \text{Log}[(c_{\_}) \cdot (x_{\_})^{(n_{\_})}] \cdot (b_{\_})\right) \cdot \left((d_{\_}) + (e_{\_}) \cdot (x_{\_})^{(r_{\_})}\right)^{(q_{\_})}\right) / (x_{\_}), x_{\_}\text{Symbol}] \rightarrow \text{With}[\{u = \text{IntHide}[(d + e \cdot x^r)^q / x, x]\}, \text{Simp}[u \cdot (a + b \cdot \text{Log}[c \cdot x^n]), x] - \text{Simp}[b \cdot n \ \text{Int}[1/x \ u, x], x]] /; \text{FreeQ}[\{a, b, c, d, e, n, r\}, x] \ \&\& \ \text{IntegerQ}[q - 1/2]$
2791.  $\text{Int}[\left(\left(\left(a_{\_}\right) + \text{Log}[(c_{\_}) \cdot (x_{\_})^{(n_{\_})}] \cdot (b_{\_})\right)^{(p_{\_})} \cdot \left((d_{\_}) + (e_{\_}) \cdot (x_{\_})^{(r_{\_})}\right)^{(q_{\_})}\right) / (x_{\_}), x_{\_}\text{Symbol}] \rightarrow \text{Simp}[1/d \ \text{Int}[(d + e \cdot x^r)^{(q + 1)} \cdot (a + b \cdot \text{Log}[c \cdot x^n])^p / x], x], x] - \text{Simp}[e/d \ \text{Int}[x^{(r - 1)} \cdot (d + e \cdot x^r)^q \cdot (a + b \cdot \text{Log}[c \cdot x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, r\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{ILtQ}[q, -1]$

2792. `Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*((f_.)*(x_)^(m_.))*((d_) + (e_.)*(x_)^(r_.))^(q_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x^r)^q, x]}, Simp[(a + b*Log[c*x^n]) u, x] - Simp[b*n Int[Simplify Integrand[u/x, x], x], x] /; ((EqQ[r, 1] || EqQ[r, 2]) && IntegerQ[m] && IntegerQ[q - 1/2]) || InverseFunctionFreeQ[u, x] /; FreeQ[{a, b, c, d, e, f, m, n, q, r}, x] && IntegerQ[2*q] && ((IntegerQ[m] && IntegerQ[r]) || IGtQ[q, 0])`
2793. `Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*((f_.)*(x_)^(m_.))*((d_) + (e_.)*(x_)^(r_.))^(q_.), x_Symbol] := With[{u = ExpandIntegrand[a + b*Log[c*x^n], (f*x)^m*(d + e*x^r)^q, x]}, Int[u, x] /; SumQ[u] /; FreeQ[{a, b, c, d, e, f, m, n, q, r}, x] && IntegerQ[q] && (GtQ[q, 0] || (IntegerQ[m] && IntegerQ[r]))`
2794. `Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.))*((d_) + (e_.)*(x_)^(r_.))^(q_.), x_Symbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(d + e*x^(r/n))^q*(a + b*Log[c*x])^p, x], x, x^n], x] /; FreeQ[{a, b, c, d, e, m, n, p, q, r}, x] && IntegerQ[q] && IntegerQ[r/n] && IntegerQ[Simplify[(m + 1)/n]] && (GtQ[(m + 1)/n, 0] || IGtQ[p, 0])`
2795. `Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.))*((f_.)*(x_)^(m_.))*((d_) + (e_.)*(x_)^(r_.))^(q_.), x_Symbol] := With[{u = ExpandIntegrand[(a + b*Log[c*x^n])^p, (f*x)^m*(d + e*x^r)^q, x]}, Int[u, x] /; SumQ[u] /; FreeQ[{a, b, c, d, e, f, m, n, p, q, r}, x] && IntegerQ[q] && (GtQ[q, 0] || (IGtQ[p, 0] && IntegerQ[m] && IntegerQ[r]))`
2796. `Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.))*((f_.)*(x_)^(m_.))*((d_) + (e_.)*(x_)^(r_.))^(q_.), x_Symbol] := Unintegrable[(f*x)^m*(d + e*x^r)^q*(a + b*Log[c*x^n])^p, x] /; FreeQ[{a, b, c, d, e, f, m, n, p, q, r}, x]`
2797. `Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(u_)^(q_.))*((f_.)*(x_)^(m_.), x_Symbol] := Int[(f*x)^m*ExpandToSum[u, x]^q*(a + b*Log[c*x^n])^p, x] /; FreeQ[{a, b, c, f, m, n, p, q}, x] && BinomialQ[u, x] && !BinomialMatchQ[u, x]`

2798.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)^{(p_.)}((d_.) + (e_.)*(x_.)^{(q_.)})*((f_.) + (g_.)*(x_.)^{(m_.)}), x\_Symbol] \rightarrow \text{Simp}[(f + g*x)^{(m+1)}*(d + e*x)^{(q+1)}*((a + b*\text{Log}[c*x^n])^p/((q+1)*(e*f - d*g))), x] - \text{Simp}[b*n*(p/((q+1)*(e*f - d*g))) \text{Int}[(f + g*x)^{(m+1)}*(d + e*x)^{(q+1)}*((a + b*\text{Log}[c*x^n])^{(p-1)}/x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, q\}, x\} \&\& \text{NeQ}[e*f - d*g, 0] \&\& \text{EqQ}[m + q + 2, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{LtQ}[q, -1]$
2799.  $\text{Int}[(A_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)}](B_.)]/\text{Sqrt}[\text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)}](b_.) + (a_.)], x\_Symbol] \rightarrow \text{Simp}[B*(d + e*x)*(\text{Sqrt}[a + b*\text{Log}[c*(d + e*x)^n]]/(b*e)), x] + \text{Simp}[(2*A*b - B*(2*a + b*n))/(2*b) \text{Int}[1/\text{Sqrt}[a + b*\text{Log}[c*(d + e*x)^n]], x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B, n\}, x]$
2800.  $\text{Int}[\text{Log}[(c_.)*(x_.)^{(n_.)}](x_.)^{(m_.)}((d_.) + (e_.)*(x_.)^{(r_.)})^{(q_.)}), x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[x^m*(d + e*x^r)^q, x]\}, \text{Simp}[\text{Log}[c*x^n] u, x] - \text{Simp}[n \text{Int}[\text{SimplifyIntegrand}[u/x, x], x], x] /; \text{FreeQ}\{c, d, e, n, r\}, x\} \&\& \text{IGtQ}[q, 0] \&\& \text{IntegerQ}[m] \&\& !(\text{EqQ}[q, 1] \&\& \text{EqQ}[m, -1])$
2801.  $\text{Int}[(\text{Log}[(c_.)*(x_.)^{(n_.)}](b_.) + (a_.)*(x_.)^{(m_.)}((d_.) + (e_.)*(x_.)^{(r_.)})^{(q_.)}), x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[x^m*(d + e*x^r)^q, x]\}, \text{Simp}[(a + b*\text{Log}[c*x^n]) u, x] - \text{Simp}[b*n \text{Int}[\text{SimplifyIntegrand}[u/x, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, n, r\}, x\} \&\& \text{IGtQ}[q, 0] \&\& \text{IntegerQ}[m] \&\& !(\text{EqQ}[q, 1] \&\& \text{EqQ}[m, -1])$
2802.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)^{(p_.)}/((x_.)*((d_.) + (e_.)*(x_.)^{(q_.)}))), x\_Symbol] \rightarrow \text{Simp}[1/d \text{Int}[(a + b*\text{Log}[c*x^n])^p/x, x], x] - \text{Simp}[e/d \text{Int}[(a + b*\text{Log}[c*x^n])^p/(d + e*x), x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{IGtQ}[p, 0]$
2803.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)^{(p_.)}(\text{Polyx}_.), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{Polyx}*(a + b*\text{Log}[c*x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, n, p\}, x\} \&\& \text{PolynomialQ}[\text{Polyx}, x]$
2804.  $\text{Int}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}](b_.)^{(p_.)}(\text{RFx}_.), x\_Symbol] \rightarrow \text{With}\{u = \text{ExpandIntegrand}[(a + b*\text{Log}[c*x^n])^p, \text{RFx}, x]\}, \text{Int}[u, x] /;$

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SumQ[u] /; FreeQ[{a, b, c, n}, x] && RationalFunctionQ[RFx, x] && IGtQ[p, 0]

2805. Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(RFx_), x_Symbol] := With[{u = ExpandIntegrand[RFx*(a + b*Log[c*x^n])^p, x]}, Int[u, x] /; SumQ[u] /; FreeQ[{a, b, c, n}, x] && RationalFunctionQ[RFx, x] && IGtQ[p, 0]

2806. Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(AFx_), x_Symbol] := Unintegrable[AFx*(a + b*Log[c*x^n])^p, x] /; FreeQ[{a, b, c, n, p}, x] && AlgebraicFunctionQ[AFx, x, True]

2807. Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(Log[(c_.)*(x_)^(n_.)]*(e_.) + (d_.))^(q_.), x_Symbol] := Int[ExpandIntegrand[(a + b*Log[c*x^n])^p*(d + e*Log[c*x^n])^q, x], x] /; FreeQ[{a, b, c, d, e, n}, x] && IntegerQ[p] && IntegerQ[q]

2808. Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*((d_.) + Log[(f_.)*(x_)^(r_.)]*(e_.)), x_Symbol] := With[{u = IntHide[(a + b*Log[c*x^n])^p, x]}, Simp[(d + e*Log[f*x^r]) u, x] - Simp[e*r Int[SimplifyIntegrand[u/x, x], x]] /; FreeQ[{a, b, c, d, e, f, n, p, r}, x]

2809. Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*((d_.) + Log[(f_.)*(x_)^(r_.)]*(e_.))^(q_.), x_Symbol] := Simp[x*(a + b*Log[c*x^n])^p*(d + e*Log[f*x^r])^q, x] + (-Simp[b*n*p Int[(a + b*Log[c*x^n])^(p-1)*(d + e*Log[f*x^r])^q, x], x] - Simp[e*q*r Int[(a + b*Log[c*x^n])^p*(d + e*Log[f*x^r])^(q-1), x], x]) /; FreeQ[{a, b, c, d, e, f, n, r}, x] && IGtQ[p, 0] && IGtQ[q, 0]

2810. Int[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*((d_.) + Log[(f_.)*(x_)^(r_.)]*(e_.))^(q_.), x_Symbol] := Unintegrable[(a + b*Log[c*x^n])^p*(d + e*Log[f*x^r])^q, x] /; FreeQ[{a, b, c, d, e, f, n, p, q, r}, x]

2811. Int[((a_.) + Log[v_]*(b_.))^(p_.)*((c_.) + Log[v_]*(d_.))^(q_.), x_Symbol] := Simp[1/Coeff[v, x, 1] Subst[Int[(a + b*Log[x])^p*(c + d*Log[x])^q, x], x, v], x] /; FreeQ[{a, b, c, d, p, q}, x] && LinearQ[v, x]

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&& NeQ[Coeff[v, x, 0], 0]

2812. Int[(((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*((d_.) + Log[(c_.)*(x_)^(n_.)]*(e_.))^(q_.))/(x_), x_Symbol] := Simp[1/n Subst[Int[(a + b*x)^p*(d + e*x)^q, x], x, Log[c*x^n]], x] /; FreeQ[{a, b, c, d, e, n, p, q}, x]

2813. Int[(((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*((d_.) + Log[(f_.)*(x_)^(r_.)]*(e_.))*((g_.)*(x_)^(m_.), x_Symbol] := With[{u = IntHide[(g*x)^m*(a + b*Log[c*x^n])^p, x]}, Simp[(d + e*Log[f*x^r]) u, x] - Simp[e*r Int[SimplifyIntegrand[u/x, x], x], x]] /; FreeQ[{a, b, c, d, e, f, g, m, n, p, r}, x] && !(EqQ[p, 1] && EqQ[a, 0] && NeQ[d, 0])

2814. Int[(((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*((d_.) + Log[(f_.)*(x_)^(r_.)]*(e_.))^(q_.)*((g_.)*(x_)^(m_.), x_Symbol] := Simp[(g*x)^(m + 1)*(a + b*Log[c*x^n])^p*((d + e*Log[f*x^r])^q/(g*(m + 1))), x] + (-Simp[b*n*(p/(m + 1)) Int[(g*x)^m*(a + b*Log[c*x^n])^(p - 1)*(d + e*Log[f*x^r])^q, x], x] - Simp[e*q*(r/(m + 1)) Int[(g*x)^m*(a + b*Log[c*x^n])^p*(d + e*Log[f*x^r])^(q - 1), x], x]) /; FreeQ[{a, b, c, d, e, f, g, m, n, r}, x] && IGtQ[p, 0] && IGtQ[q, 0] && NeQ[m, -1]

2815. Int[(((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*((d_.) + Log[(f_.)*(x_)^(r_.)]*(e_.))^(q_.)*((g_.)*(x_)^(m_.), x_Symbol] := Unintegrable[(g*x)^m*(a + b*Log[c*x^n])^p*(d + e*Log[f*x^r])^q, x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p, q, r}, x]

2816. Int[(((a_.) + Log[v_]*(b_.))^(p_.)*((c_.) + Log[v_]*(d_.))^(q_.)*(u_)^(m_.), x_Symbol] := With[{e = Coeff[u, x, 0], f = Coeff[u, x, 1], g = Coeff[v, x, 0], h = Coeff[v, x, 1]}, Simp[1/h Subst[Int[(f*(x/h))^m*(a + b*Log[x])^p*(c + d*Log[x])^q, x], x, v], x] /; EqQ[f*g - e*h, 0] && NeQ[g, 0] /; FreeQ[{a, b, c, d, m, p, q}, x] && LinearQ[{u, v}, x]

2817. Int[Log[(d_.)*((e_) + (f_.)*(x_)^(m_.))^(r_.)]*(((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := With[{u = IntHide[Log[d*(e + f*x^m)^r], x]}, Simp[(a + b*Log[c*x^n])^p u, x] - Simp[b*n*p Int[(a + b*Log[c*x^n])^(p - 1)/x u, x], x]] /; FreeQ[{a, b, c, d, e, f, r, m, n}, x] && IGtQ[p, 0] && RationalQ[m] && (EqQ[p, 1] || (FractionQ[m] &&

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IntegerQ[1/m]) || (EqQ[r, 1] && EqQ[m, 1] && EqQ[d*e, 1]))

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2818. $\text{Int}[\text{Log}[(d_)*((e_)+(f_)*(x_)^{(m_)})^{(r_)}]*((a_)+\text{Log}[(c_)*(x_)^{(n_)}]*(b_))^{(p_)}], x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(a + b*\text{Log}[c*x^n])^p, x]\}, \text{Simp}[\text{Log}[d*(e + f*x^m)^r] u, x] - \text{Simp}[f*m*r \text{Int}[x^{(m-1)/(e + f*x^m)} u, x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, r, m, n\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IntegerQ}[m]$
2819. $\text{Int}[\text{Log}[(d_)*((e_)+(f_)*(x_)^{(m_)})^{(r_)}]*((a_)+\text{Log}[(c_)*(x_)^{(n_)}]*(b_))^{(p_)}], x_Symbol] \rightarrow \text{Unintegrable}[(a + b*\text{Log}[c*x^n])^p * \text{Log}[d*(e + f*x^m)^r], x] /; \text{FreeQ}[\{a, b, c, d, e, f, r, m, n, p\}, x]$
2820. $\text{Int}[\text{Log}[(d_)*(u_)^{(r_)}]*((a_)+\text{Log}[(c_)*(x_)^{(n_)}]*(b_))^{(p_)}], x_Symbol] \rightarrow \text{Int}[\text{Log}[d*\text{ExpandToSum}[u, x]^r]*(a + b*\text{Log}[c*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, r, n, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
2821. $\text{Int}[(\text{Log}[(d_)*((e_)+(f_)*(x_)^{(m_)})]*((a_)+\text{Log}[(c_)*(x_)^{(n_)}]*(b_))^{(p_)}]/(x_), x_Symbol] \rightarrow \text{Simp}[(-\text{PolyLog}[2, (-d)*f*x^m])*((a + b*\text{Log}[c*x^n])^p/m), x] + \text{Simp}[b*n*(p/m) \text{Int}[\text{PolyLog}[2, (-d)*f*x^m] * ((a + b*\text{Log}[c*x^n])^{(p-1)/x}), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[d*e, 1]$
2822. $\text{Int}[(\text{Log}[(d_)*((e_)+(f_)*(x_)^{(m_)})^{(r_)}]*((a_)+\text{Log}[(c_)*(x_)^{(n_)}]*(b_))^{(p_)}]/(x_), x_Symbol] \rightarrow \text{Simp}[\text{Log}[d*(e + f*x^m)^r]*((a + b*\text{Log}[c*x^n])^{(p+1)/(b*n*(p+1))}), x] - \text{Simp}[f*m*(r/(b*n*(p+1))) \text{Int}[x^{(m-1)}*(a + b*\text{Log}[c*x^n])^{(p+1)/(e + f*x^m)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, r, m, n\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{NeQ}[d*e, 1]$
2823. $\text{Int}[\text{Log}[(d_)*((e_)+(f_)*(x_)^{(m_)})^{(r_)}]*((a_)+\text{Log}[(c_)*(x_)^{(n_)}]*(b_))*((g_)*(x_)^{(q_)}], x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(g*x)^q * \text{Log}[d*(e + f*x^m)^r], x]\}, \text{Simp}[(a + b*\text{Log}[c*x^n]) u, x] - \text{Simp}[b*n \text{Int}[1/x u, x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g, r, m, n, q\}, x] \&\& (\text{IntegerQ}[(q+1)/m] || (\text{RationalQ}[m] \&\& \text{RationalQ}[q])) \&\& \text{NeQ}[q, -1]$

2824. $\text{Int}[\text{Log}[(d_.) * ((e_.) + (f_.) * (x_.)^{(m_.)})] * ((a_.) + \text{Log}[(c_.) * (x_.)^{(n_.)})] * (b_.)^{(p_.)} * ((g_.) * (x_.))^{(q_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(g*x)^q * \text{Log}[d*(e + f*x^m)], x]\}, \text{Simp}[(a + b*\text{Log}[c*x^n])^p \text{ u}, x] - \text{Simp}[b*n*p \text{ Int}[(a + b*\text{Log}[c*x^n])^{(p-1)}/x \text{ u}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{RationalQ}[m] \&\& \text{RationalQ}[q] \&\& \text{NeQ}[q, -1] \&\& (\text{EqQ}[p, 1] \parallel (\text{FractionQ}[m] \&\& \text{IntegerQ}[(q+1)/m]) \parallel (\text{IGtQ}[q, 0] \&\& \text{IntegerQ}[(q+1)/m] \&\& \text{EqQ}[d*e, 1]))]$
2825. $\text{Int}[\text{Log}[(d_.) * ((e_.) + (f_.) * (x_.)^{(m_.)})^{(r_.)}] * ((a_.) + \text{Log}[(c_.) * (x_.)^{(n_.)})] * (b_.)^{(p_.)} * ((g_.) * (x_.))^{(q_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(g*x)^q * (a + b*\text{Log}[c*x^n])^p, x]\}, \text{Simp}[\text{Log}[d*(e + f*x^m)^r] \text{ u}, x] - \text{Simp}[f*m*r \text{ Int}[x^{(m-1)}/(e + f*x^m) \text{ u}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, r, m, n, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{RationalQ}[m] \&\& \text{RationalQ}[q]$
2826. $\text{Int}[\text{Log}[(d_.) * ((e_.) + (f_.) * (x_.)^{(m_.)})^{(r_.)}] * ((a_.) + \text{Log}[(c_.) * (x_.)^{(n_.)})] * (b_.)^{(p_.)} * ((g_.) * (x_.))^{(q_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(g*x)^q * (a + b*\text{Log}[c*x^n])^p * \text{Log}[d*(e + f*x^m)^r], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, r, m, n, p, q\}, x]$
2827. $\text{Int}[\text{Log}[(d_.) * (u_.)^{(r_.)}] * ((a_.) + \text{Log}[(c_.) * (x_.)^{(n_.)})] * (b_.)^{(p_.)} * ((g_.) * (x_.))^{(q_.)}, x_Symbol] \rightarrow \text{Int}[(g*x)^q * \text{Log}[d*\text{ExpandToSum}[u, x]^r] * (a + b*\text{Log}[c*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, g, r, n, p, q\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
2828. $\text{Int}[(a_.) + \text{Log}[(c_.) * (x_.)^{(n_.)}] * (b_.) * \text{PolyLog}[k_, (e_.) * (x_.)^{(q_.)}], x_Symbol] \rightarrow \text{Simp}[(-b)*n*x*\text{PolyLog}[k, e*x^q], x] + (\text{Simp}[x*\text{PolyLog}[k, e*x^q] * (a + b*\text{Log}[c*x^n]), x] - \text{Simp}[q \text{ Int}[\text{PolyLog}[k-1, e*x^q] * (a + b*\text{Log}[c*x^n]), x], x] + \text{Simp}[b*n*q \text{ Int}[\text{PolyLog}[k-1, e*x^q], x], x]) /; \text{FreeQ}[\{a, b, c, e, n, q\}, x] \&\& \text{IGtQ}[k, 0]$
2829. $\text{Int}[(a_.) + \text{Log}[(c_.) * (x_.)^{(n_.)}] * (b_.)^{(p_.)} * \text{PolyLog}[k_, (e_.) * (x_.)^{(q_.)}], x_Symbol] \rightarrow \text{Unintegrable}[(a + b*\text{Log}[c*x^n])^p * \text{PolyLog}[k, e*x^q], x] /; \text{FreeQ}[\{a, b, c, e, n, p, q\}, x]$
2830. $\text{Int}[(a_.) + \text{Log}[(c_.) * (x_.)^{(n_.)}] * (b_.)^{(p_.)} * \text{PolyLog}[k_, (e_.) * (x_.)^{(q_.)}] / (x_.), x_Symbol] \rightarrow \text{Simp}[\text{PolyLog}[k+1, e*x^q] * (a + b*\text{Log}[c*$

- $x^n)^{p/q}$, x] - $\text{Simp}[b*n*(p/q) \text{ Int}[\text{PolyLog}[k + 1, e*x^q]*((a + b*\text{Log}[c*x^n])^{(p - 1)/x})$, x], x] /; $\text{FreeQ}\{a, b, c, e, k, n, q\}, x$] && $\text{GtQ}[p, 0]$
2831. $\text{Int}[(((a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.))^{(p_.)*\text{PolyLog}[k_, (e_.)*(x_.)^{(q_.)}])/(x_.), x_Symbol] := \text{Simp}[\text{PolyLog}[k, e*x^q]*((a + b*\text{Log}[c*x^n])^{(p + 1)/(b*n*(p + 1))})$, x] - $\text{Simp}[q/(b*n*(p + 1)) \text{ Int}[\text{PolyLog}[k - 1, e*x^q]*((a + b*\text{Log}[c*x^n])^{(p + 1)/x})$, x], x] /; $\text{FreeQ}\{a, b, c, e, k, n, q\}, x$] && $\text{LtQ}[p, -1]$
2832. $\text{Int}[((a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.))*((d_.)*(x_.))^{(m_.)*\text{PolyLog}[k_, (e_.)*(x_.)^{(q_.)}]$, $x_Symbol] := \text{Simp}[(-b)*n*(d*x)^{(m + 1)*(\text{PolyLog}[k, e*x^q]/(d*(m + 1)^2))$, x] + $(\text{Simp}[(d*x)^{(m + 1)*\text{PolyLog}[k, e*x^q]*((a + b*\text{Log}[c*x^n])/(d*(m + 1)))$, x] - $\text{Simp}[q/(m + 1) \text{ Int}[(d*x)^m*\text{PolyLog}[k - 1, e*x^q]*(a + b*\text{Log}[c*x^n])$, x], x] + $\text{Simp}[b*n*(q/(m + 1)^2) \text{ Int}[(d*x)^m*\text{PolyLog}[k - 1, e*x^q]$, x], x) /; $\text{FreeQ}\{a, b, c, d, e, m, n, q\}, x$] && $\text{IGtQ}[k, 0]$
2833. $\text{Int}[((a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.))^{(p_.)*((d_.)*(x_.))^{(m_.)*\text{PolyLog}[k_, (e_.)*(x_.)^{(q_.)}]$, $x_Symbol] := \text{Unintegrable}[(d*x)^m*(a + b*\text{Log}[c*x^n])^p*\text{PolyLog}[k, e*x^q]$, x] /; $\text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x$]
2834. $\text{Int}[((a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.))*(Px_.)*(F_)[(d_.)*((e_.) + (f_.)*(x_.))]^{(m_.), x_Symbol] := \text{With}\{u = \text{IntHide}[Px*F[d*(e + f*x)]^m$, $x\}$, $\text{Simp}[(a + b*\text{Log}[c*x^n])^m u$, x] - $\text{Simp}[b*n \text{ Int}[1/x u$, x], x] /; $\text{FreeQ}\{a, b, c, d, e, f, n\}, x$] && $\text{PolynomialQ}[Px, x]$ && $\text{IGtQ}[m, 0]$ && $\text{MemberQ}\{\text{ArcSin}, \text{ArcCos}, \text{ArcSinh}, \text{ArcCosh}\}, F$
2835. $\text{Int}[((a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.))*(Px_.)*(F_)[(d_.)*((e_.) + (f_.)*(x_.))]$, $x_Symbol] := \text{With}\{u = \text{IntHide}[Px*F[d*(e + f*x)]$, $x\}$, $\text{Simp}[(a + b*\text{Log}[c*x^n])^m u$, x] - $\text{Simp}[b*n \text{ Int}[1/x u$, x], x] /; $\text{FreeQ}\{a, b, c, d, e, f, n\}, x$] && $\text{PolynomialQ}[Px, x]$ && $\text{MemberQ}\{\text{ArcTan}, \text{ArcCot}, \text{ArcTanh}, \text{ArcCoth}\}, F$
2836. $\text{Int}[((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.))^{(n_.)}]*(b_.))^{(p_.), x_Symbol] := \text{Simp}[1/e \text{ Subst}[\text{Int}[(a + b*\text{Log}[c*x^n])^p$, x], $x, d + e*x$], x]

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/; FreeQ[{a, b, c, d, e, n, p}, x]

2837. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*((f_) +
 (g_.)*(x_))^(q_.), x_Symbol] := Simp[1/e Subst[Int[(f*(x/d))^q*(a +
 b*Log[c*x^n])^p, x], x, d + e*x], x] /; FreeQ[{a, b, c, d, e, f, g, n
 , p, q}, x] && EqQ[e*f - d*g, 0]

2838. Int[Log[(c_.)*((d_) + (e_.)*(x_)^(n_.))]/(x_), x_Symbol] := Simp[-Poly
 Log[2, (-c)*e*x^n/n, x] /; FreeQ[{c, d, e, n}, x] && EqQ[c*d, 1]

2839. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))]*(b_.))/(x_), x_Symbol] :=
 Simp[(a + b*Log[c*d])*Log[x], x] + Simp[b Int[Log[1 + e*(x/d)]/x, x]
 , x] /; FreeQ[{a, b, c, d, e}, x] && GtQ[c*d, 0]

2840. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))]*(b_.))/((f_.) + (g_.)*(x_
)), x_Symbol] := Simp[1/g Subst[Int[(a + b*Log[1 + c*e*(x/g)])/x, x],
 x, f + g*x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && NeQ[e*f - d*g,
 0] && EqQ[g + c*(e*f - d*g), 0]

2841. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))/((f_.) + (g_.
)*(x_)), x_Symbol] := Simp[Log[e*((f + g*x)/(e*f - d*g))]*((a + b*Log[
 c*(d + e*x)^n])/g), x] - Simp[b*e*(n/g) Int[Log[(e*(f + g*x))/(e*f -
 d*g)]/(d + e*x), x], x] /; FreeQ[{a, b, c, d, e, f, g, n}, x] && NeQ[
 e*f - d*g, 0]

2842. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))*((f_.) + (g_.
)*(x_))^(q_.), x_Symbol] := Simp[(f + g*x)^(q + 1)*((a + b*Log[c*(d +
 e*x)^n])/(g*(q + 1))), x] - Simp[b*e*(n/(g*(q + 1))) Int[(f + g*x)^(
 q + 1)/(d + e*x), x], x] /; FreeQ[{a, b, c, d, e, f, g, n, q}, x] && N
 eQ[e*f - d*g, 0] && NeQ[q, -1]

2843. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_)/((f_.) +
 (g_.)*(x_)), x_Symbol] := Simp[Log[e*((f + g*x)/(e*f - d*g))]*((a + b
 Log[c(d + e*x)^n])^p/g), x] - Simp[b*e*n*(p/g) Int[Log[(e*(f + g*x
))/(e*f - d*g)]*((a + b*Log[c*(d + e*x)^n])^(p - 1)/(d + e*x)), x], x]
 /; FreeQ[{a, b, c, d, e, f, g, n, p}, x] && NeQ[e*f - d*g, 0] && IGtQ

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[p, 1]

2844.  $\text{Int}[\left((a_{.}) + \text{Log}[(c_{.}) * ((d_{.}) + (e_{.}) * (x_{.}))^{(n_{.})}] * (b_{.})\right)^{(p_{.})} / \left((f_{.}) + (g_{.}) * (x_{.})\right)^2, x\_Symbol] \rightarrow \text{Simp}[(d + e*x) * ((a + b*\text{Log}[c*(d + e*x)^n])^p / ((e*f - d*g) * (f + g*x))), x] - \text{Simp}[b*e*n * (p / (e*f - d*g)) \text{Int}[(a + b*\text{Log}[c*(d + e*x)^n])^{(p - 1)} / (f + g*x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x] \&\& \text{NeQ}[e*f - d*g, 0] \&\& \text{GtQ}[p, 0]$
2845.  $\text{Int}[\left((a_{.}) + \text{Log}[(c_{.}) * ((d_{.}) + (e_{.}) * (x_{.}))^{(n_{.})}] * (b_{.})\right)^{(p_{.})} * \left((f_{.}) + (g_{.}) * (x_{.})\right)^{(q_{.})}, x\_Symbol] \rightarrow \text{Simp}[(f + g*x)^{(q + 1)} * ((a + b*\text{Log}[c*(d + e*x)^n])^p / (g*(q + 1))), x] - \text{Simp}[b*e*n * (p / (g*(q + 1))) \text{Int}[(f + g*x)^{(q + 1)} * ((a + b*\text{Log}[c*(d + e*x)^n])^{(p - 1)} / (d + e*x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, q\}, x] \&\& \text{NeQ}[e*f - d*g, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[q, -1] \&\& \text{IntegersQ}[2*p, 2*q] \&\& (!\text{IGtQ}[q, 0] || (\text{EqQ}[p, 2] \&\& \text{NeQ}[q, 1]))$
2846.  $\text{Int}[\left((f_{.}) + (g_{.}) * (x_{.})\right)^{(q_{.})} / \left((a_{.}) + \text{Log}[(c_{.}) * ((d_{.}) + (e_{.}) * (x_{.}))^{(n_{.})}] * (b_{.})\right), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f + g*x)^q / (a + b*\text{Log}[c*(d + e*x)^n]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x] \&\& \text{NeQ}[e*f - d*g, 0] \&\& \text{IGtQ}[q, 0]$
2847.  $\text{Int}[\left((a_{.}) + \text{Log}[(c_{.}) * ((d_{.}) + (e_{.}) * (x_{.}))^{(n_{.})}] * (b_{.})\right)^{(p_{.})} * \left((f_{.}) + (g_{.}) * (x_{.})\right)^{(q_{.})}, x\_Symbol] \rightarrow \text{Simp}[(d + e*x) * (f + g*x)^q * ((a + b*\text{Log}[c*(d + e*x)^n])^{(p + 1)} / (b*e*n * (p + 1))), x] + (-\text{Simp}[(q + 1) / (b*n * (p + 1)) \text{Int}[(f + g*x)^q * (a + b*\text{Log}[c*(d + e*x)^n])^{(p + 1)}, x], x] + \text{Simp}[q * ((e*f - d*g) / (b*e*n * (p + 1))) \text{Int}[(f + g*x)^{(q - 1)} * (a + b*\text{Log}[c*(d + e*x)^n])^{(p + 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x] \&\& \text{NeQ}[e*f - d*g, 0] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[q, 0]$
2848.  $\text{Int}[\left((a_{.}) + \text{Log}[(c_{.}) * ((d_{.}) + (e_{.}) * (x_{.}))^{(n_{.})}] * (b_{.})\right)^{(p_{.})} * \left((f_{.}) + (g_{.}) * (x_{.})\right)^{(q_{.})}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(f + g*x)^q * (a + b*\text{Log}[c*(d + e*x)^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, p\}, x] \&\& \text{NeQ}[e*f - d*g, 0] \&\& \text{IGtQ}[q, 0]$
2849.  $\text{Int}[\text{Log}[(c_{.}) / ((d_{.}) + (e_{.}) * (x_{.}))] / \left((f_{.}) + (g_{.}) * (x_{.})^2\right), x\_Symbol] \rightarrow \text{Simp}[-e/g \text{Subst}[\text{Int}[\text{Log}[2*d*x] / (1 - 2*d*x), x], x, 1 / (d + e*x)], x]$

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/; FreeQ[{c, d, e, f, g}, x] && EqQ[c, 2*d] && EqQ[e^2*f + d^2*g, 0]

2850. Int[((a_.) + Log[(c_.)/((d_) + (e_.)*(x_))]*(b_.))/((f_) + (g_.)*(x_)^
2), x_Symbol] := Simp[(a + b*Log[c/(2*d)]) Int[1/(f + g*x^2), x], x]
+ Simp[b Int[Log[2*(d/(d + e*x))]/(f + g*x^2), x], x] /; FreeQ[{a,
b, c, d, e, f, g}, x] && EqQ[e^2*f + d^2*g, 0] && GtQ[c/(2*d), 0]

2851. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))/Sqrt[(f_) + (
g_.)*(x_)^2], x_Symbol] := With[{u = IntHide[1/Sqrt[f + g*x^2], x]}, S
imp[u*(a + b*Log[c*(d + e*x)^n]), x] - Simp[b*e^n Int[SimplifyIntegr
and[u/(d + e*x), x], x], x] /; FreeQ[{a, b, c, d, e, f, g, n}, x] &&
GtQ[f, 0]

2852. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))/(Sqrt[(f1_) +
(g1_.)*(x_)]*Sqrt[(f2_) + (g2_.)*(x_)]), x_Symbol] := With[{u = IntHi
de[1/Sqrt[f1*f2 + g1*g2*x^2], x]}, Simp[u*(a + b*Log[c*(d + e*x)^n]),
x] - Simp[b*e^n Int[SimplifyIntegrand[u/(d + e*x), x], x], x] /; Fr
eeQ[{a, b, c, d, e, f1, g1, f2, g2, n}, x] && EqQ[f2*g1 + f1*g2, 0] &&
GtQ[f1, 0] && GtQ[f2, 0]

2853. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))/Sqrt[(f_) + (
g_.)*(x_)^2], x_Symbol] := Simp[Sqrt[1 + (g/f)*x^2]/Sqrt[f + g*x^2]
Int[(a + b*Log[c*(d + e*x)^n])/Sqrt[1 + (g/f)*x^2], x], x] /; FreeQ[{a
, b, c, d, e, f, g, n}, x] && !GtQ[f, 0]

2854. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))/(Sqrt[(f1_) +
(g1_.)*(x_)]*Sqrt[(f2_) + (g2_.)*(x_)]), x_Symbol] := Simp[Sqrt[1 + g
1*(g2/(f1*f2))*x^2]/(Sqrt[f1 + g1*x]*Sqrt[f2 + g2*x]) Int[(a + b*Log
[c*(d + e*x)^n])/Sqrt[1 + g1*(g2/(f1*f2))*x^2], x], x] /; FreeQ[{a, b,
c, d, e, f1, g1, f2, g2, n}, x] && EqQ[f2*g1 + f1*g2, 0]

2855. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*((f_.)
+ (g_.)*(x_)^(r_))^(q_.), x_Symbol] := With[{k = Denominator[r]}, Simp
[k Subst[Int[x^(k - 1)*(f + g*x^(k*r))^q*(a + b*Log[c*(d + e*x^k)^n]
)^p, x], x, x^(1/k)], x] /; FreeQ[{a, b, c, d, e, f, g, n, p, q}, x]
&& FractionQ[r] && IGtQ[p, 0]

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2856.  $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)}](b_.)^{(p_.)}*((f_.) + (g_.)*(x_))^{(r_.)}](q_.), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{Log}[c*(d + e*x)^n]]^p, (f + g*x^r)^q, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, r\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ (\text{GtQ}[q, 0] \ || \ (\text{IntegerQ}[r] \ \&\& \ \text{NeQ}[r, 1]))]$
2857.  $\text{Int}[(\text{Log}[(c_.)*((d_.) + (e_.)*(x_))])*(x_)^{(m_.)}]/((f_.) + (g_.)*(x_)), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{Log}[c*(d + e*x)], x^m/(f + g*x), x], x] /; \text{FreeQ}[\{c, d, e, f, g\}, x] \ \&\& \ \text{EqQ}[e*f - d*g, 0] \ \&\& \ \text{EqQ}[c*d, 1] \ \&\& \ \text{IntegerQ}[m]$
2858.  $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)}](b_.)^{(p_.)}*((f_.) + (g_.)*(x_))^{(q_.)}*((h_.) + (i_.)*(x_))^{(r_.)}], x\_Symbol] \rightarrow \text{Simp}[1/e \ \text{Subst}[\text{Int}[(g*(x/e))^q*((e*h - d*i)/e + i*(x/e))^r*(a + b*\text{Log}[c*x^n])^p, x], x, d + e*x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, i, n, p, q, r\}, x] \ \&\& \ \text{EqQ}[e*f - d*g, 0] \ \&\& \ (\text{IGtQ}[p, 0] \ || \ \text{IGtQ}[r, 0]) \ \&\& \ \text{IntegerQ}[2*r]$
2859.  $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)}](b_.)^{(p_.)}*((f_.) + (g_.)/(x_))^{(q_.)}*(x_)^{(m_.)}], x\_Symbol] \rightarrow \text{Int}[(g + f*x)^q*(a + b*\text{Log}[c*(d + e*x)^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p, q\}, x] \ \&\& \ \text{EqQ}[m, q] \ \&\& \ \text{IntegerQ}[q]$
2860.  $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)}](b_.)^{(p_.)}*(x_)^{(m_.)}*((f_.) + (g_.)*(x_))^{(r_.)}](q_.), x\_Symbol] \rightarrow \text{Simp}[(f + g*x^r)^{(q+1)}*((a + b*\text{Log}[c*(d + e*x)^n])^p/(g*r*(q+1))), x] - \text{Simp}[b*e*n*(p/(g*r*(q+1))) \ \text{Int}[(f + g*x^r)^{(q+1)}*((a + b*\text{Log}[c*(d + e*x)^n])^{(p-1)/(d + e*x)}), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, q, r\}, x] \ \&\& \ \text{EqQ}[m, r - 1] \ \&\& \ \text{NeQ}[q, -1] \ \&\& \ \text{IGtQ}[p, 0]$
2861.  $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_))^{(n_.)}](b_.)*(x_)^{(m_.)}*((f_.) + (g_.)*(x_))^{(r_.)}](q_.), x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[x^m*(f + g*x^r)^q, x]\}, \text{Simp}[(a + b*\text{Log}[c*(d + e*x)^n]) \ u, x] - \text{Simp}[b*e*n \ \text{Int}[\text{SimplifyIntegrand}[u/(d + e*x), x], x], x] /; \text{InverseFunctionFreeQ}[u, x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, q, r\}, x] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ \text{IntegerQ}[r]$



2862. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*(x_)^(m_.)*((f_.) + (g_.)*(x_)^(r_.))^(q_.), x_Symbol] := With[{k = Denominator[r]}, Simp[k Subst[Int[x^(k*(m + 1) - 1)*(f + g*x^(k*r))^q*(a + b*Log[c*(d + e*x^k)^n])^p, x], x, x^(1/k)], x] /; FreeQ[{a, b, c, d, e, f, g, n, p, q}, x] && FractionQ[r] && IGtQ[p, 0] && IntegerQ[m]`
2863. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*((h_.)*(x_)^(m_.)*((f_) + (g_.)*(x_)^(r_.))^(q_.), x_Symbol] := Int[ExpandIntegrand[(a + b*Log[c*(d + e*x)^n])^p, (h*x)^m*(f + g*x^r)^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, p, q, r}, x] && IntegerQ[m] && IntegerQ[q]`
2864. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*(Polyx_), x_Symbol] := Int[ExpandIntegrand[Polyx*(a + b*Log[c*(d + e*x)^n])^p, x], x] /; FreeQ[{a, b, c, d, e, n, p}, x] && PolynomialQ[Polyx, x]`
2865. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*(RFx_), x_Symbol] := With[{u = ExpandIntegrand[(a + b*Log[c*(d + e*x)^n])^p, RFx, x]}, Int[u, x] /; SumQ[u]] /; FreeQ[{a, b, c, d, e, n}, x] && RationalFunctionQ[RFx, x] && IntegerQ[p]`
2866. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*(RFx_), x_Symbol] := With[{u = ExpandIntegrand[RFx*(a + b*Log[c*(d + e*x)^n])^p, x]}, Int[u, x] /; SumQ[u]] /; FreeQ[{a, b, c, d, e, n}, x] && RationalFunctionQ[RFx, x] && IntegerQ[p]`
2867. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*(AFx_), x_Symbol] := Unintegrable[AFx*(a + b*Log[c*(d + e*x)^n])^p, x] /; FreeQ[{a, b, c, d, e, n, p}, x] && AlgebraicFunctionQ[AFx, x, True]`
2868. `Int[((a_.) + Log[(c_.)*(v_)^(n_.)]*(b_.))^(p_.)*(u_)^(q_.), x_Symbol] := Int[ExpandToSum[u, x]^q*(a + b*Log[c*ExpandToSum[v, x]^n])^p, x] /; FreeQ[{a, b, c, n, p, q}, x] && BinomialQ[u, x] && LinearQ[v, x] && !(BinomialMatchQ[u, x] && LinearMatchQ[v, x])`

2869.  $\text{Int}[\text{Log}[(f\_.)*(x\_)^{(m\_)}]*((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{(n\_)}])*(b\_.)], x\_Symbol] \rightarrow \text{Simp}[(-x)*(m - \text{Log}[f*x^m])*(a + b*\text{Log}[c*(d + e*x)^n]), x] + (-\text{Simp}[b*e^n \text{Int}[(x*\text{Log}[f*x^m])/(d + e*x), x], x] + \text{Simp}[b*e*m*n \text{Int}[x/(d + e*x), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x]$
2870.  $\text{Int}[\text{Log}[(f\_.)*(x\_)^{(m\_)}]*((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{(n\_)}])*(b\_.)^{(p\_)}], x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[(a + b*\text{Log}[c*(d + e*x)^n])^p, x]\}, \text{Simp}[\text{Log}[f*x^m] u, x] - \text{Simp}[m \text{Int}[1/x u, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{IGtQ}[p, 1]$
2871.  $\text{Int}[\text{Log}[(f\_.)*(x\_)^{(m\_)}]*((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{(n\_)}])*(b\_.)^{(p\_)}], x\_Symbol] \rightarrow \text{Unintegrable}[\text{Log}[f*x^m]*(a + b*\text{Log}[c*(d + e*x)^n])^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x]$
2872.  $\text{Int}[(\text{Log}[(f\_.)*(x\_)^{(m\_)}]*((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{(n\_)}])*(b\_.)^{(p\_)}]/(x\_), x\_Symbol] \rightarrow \text{Simp}[\text{Log}[f*x^m]^2*((a + b*\text{Log}[c*(d + e*x)^n])/(2*m)), x] - \text{Simp}[b*e*(n/(2*m)) \text{Int}[\text{Log}[f*x^m]^2/(d + e*x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x]$
2873.  $\text{Int}[\text{Log}[(f\_.)*(x\_)^{(m\_)}]*((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{(n\_)}])*(b\_.)^{(p\_)}*((g\_.)*(x\_))^{(q\_)}], x\_Symbol] \rightarrow \text{Simp}[(-g*(q + 1))^{(-1)}*(m*((g*x)^{(q + 1))/(q + 1)) - (g*x)^{(q + 1)}*\text{Log}[f*x^m])*(a + b*\text{Log}[c*(d + e*x)^n]), x] + (-\text{Simp}[b*e*(n/(g*(q + 1))) \text{Int}[(g*x)^{(q + 1)}*(\text{Log}[f*x^m]/(d + e*x)), x], x] + \text{Simp}[b*e*m*(n/(g*(q + 1)^2)) \text{Int}[(g*x)^{(q + 1)}/(d + e*x), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, q\}, x] \&\& \text{NeQ}[q, -1]$
2874.  $\text{Int}[(\text{Log}[(f\_.)*(x\_)^{(m\_)}]*((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{(n\_)}])*(b\_.)^{(p\_)}]/(x\_), x\_Symbol] \rightarrow \text{Simp}[\text{Log}[f*x^m]^2*((a + b*\text{Log}[c*(d + e*x)^n])^p/(2*m)), x] - \text{Simp}[b*e*n*(p/(2*m)) \text{Int}[\text{Log}[f*x^m]^2*((a + b*\text{Log}[c*(d + e*x)^n])^{(p - 1)}/(d + e*x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{IGtQ}[p, 0]$
2875.  $\text{Int}[\text{Log}[(f\_.)*(x\_)^{(m\_)}]*((a\_.) + \text{Log}[(c\_.)*((d\_.) + (e\_.)*(x\_))^{(n\_)}])*(b\_.)^{(p\_)}*((g\_.)*(x\_))^{(q\_)}], x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[(g*x)^q*(a + b*\text{Log}[c*(d + e*x)^n])^p, x]\}, \text{Simp}[\text{Log}[f*x^m] u, x] - \text{Simp}[m$

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Int[1/x u, x], x]] /; FreeQ[{a, b, c, d, e, f, g, m, n, q}, x] &&
IGtQ[p, 1] && IGtQ[q, 0]

2876. Int[Log[(f_.)*(x_)^(m_.)]*((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)
]*(b_.))^(p_.)*((g_.)*(x_))^(q_.), x_Symbol] := Unintegrable[(g*x)^q*L
og[f*x^m]*(a + b*Log[c*(d + e*x)^n])^p, x] /; FreeQ[{a, b, c, d, e, f,
g, m, n, p, q}, x]

2877. Int[Log[(f_.)*((g_.) + (h_.)*(x_))^(m_.)]*((a_.) + Log[(c_.)*((d_) + (
e_.)*(x_))^(n_.)]*(b_.))^(p_.), x_Symbol] := Simp[1/e Subst[Int[Log[
f*(g*(x/d)^m]*(a + b*Log[c*x^n])^p, x], x, d + e*x], x] /; FreeQ[{a,
b, c, d, e, f, g, h, m, n, p}, x] && EqQ[e*f - d*g, 0]

2878. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))*((f_.) + Log[
(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(g_.)), x_Symbol] := Simp[x*(a + b*Lo
g[c*(d + e*x)^n]*(f + g*Log[c*(d + e*x)^n]), x] - Simp[e*n Int[(x*(
b*f + a*g + 2*b*g*Log[c*(d + e*x)^n]))/(d + e*x), x], x] /; FreeQ[{a,
b, c, d, e, f, g, n}, x]

2879. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*((f_.)
+ Log[(h_.)*((i_.) + (j_.)*(x_))^(m_.)]*(g_.)), x_Symbol] := Simp[x*(a
+ b*Log[c*(d + e*x)^n])^p*(f + g*Log[h*(i + j*x)^m]), x] + (-Simp[g*j
*m Int[x*((a + b*Log[c*(d + e*x)^n])^p/(i + j*x)), x], x] - Simp[b*e
*n*p Int[x*(a + b*Log[c*(d + e*x)^n])^(p - 1)*((f + g*Log[h*(i + j*x)
)^m))/(d + e*x)), x], x) /; FreeQ[{a, b, c, d, e, f, g, h, i, j, m, n
}, x] && IGtQ[p, 0]

2880. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*((f_.)
+ Log[(h_.)*((i_.) + (j_.)*(x_))^(m_.)]*(g_.))^(q_.), x_Symbol] := Uni
ntegrable[(a + b*Log[c*(d + e*x)^n])^p*(f + g*Log[h*(i + j*x)^m])^q, x
] /; FreeQ[{a, b, c, d, e, f, g, h, i, j, m, n, p}, x]

2881. Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_))^(n_.)]*(b_.))^(p_.)*((f_.)
+ Log[(h_.)*((i_.) + (j_.)*(x_))^(m_.)]*(g_.))*((k_.) + (l_.)*(x_))^(r
_.), x_Symbol] := Simp[1/e Subst[Int[(k*(x/d))^r*(a + b*Log[c*x^n])^
p*(f + g*Log[h*((e*i - d*j)/e + j*(x/e))^m]), x], x, d + e*x], x] /; F
reeQ[{a, b, c, d, e, f, g, h, i, j, k, l, n, p, r}, x] && EqQ[e*k - d*

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1, 0]

2882. $\text{Int}[(((a_.) + \text{Log}[(c_.)*((d_) + (e_.)*(x_))^{(n_.)}]* (b_.)))*((f_.) + \text{Log}[(c_.)*((d_) + (e_.)*(x_))^{(n_.)}]* (g_.)))/(x_), x_Symbol] \rightarrow \text{Simp}[\text{Log}[x]*(a + b*\text{Log}[c*(d + e*x)^n])*(f + g*\text{Log}[c*(d + e*x)^n]), x] - \text{Simp}[e*n \text{ Int}[(\text{Log}[x]*(b*f + a*g + 2*b*g*\text{Log}[c*(d + e*x)^n]))/(d + e*x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x]$
2883. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_) + (e_.)*(x_))^{(n_.)}]* (b_.))*((f_.) + \text{Log}[(c_.)*((d_) + (e_.)*(x_))^{(n_.)}]* (g_.))* (x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*(a + b*\text{Log}[c*(d + e*x)^n])*(f + g*\text{Log}[c*(d + e*x)^n])/(m + 1), x] - \text{Simp}[e*(n/(m + 1)) \text{ Int}[(x^{(m + 1)}*(b*f + a*g + 2*b*g*\text{Log}[c*(d + e*x)^n]))/(d + e*x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, m\}, x] \&\& \text{NeQ}[m, -1]$
2884. $\text{Int}[(((a_.) + \text{Log}[(c_.)*((d_) + (e_.)*(x_))^{(n_.)}]* (b_.)))*((f_.) + \text{Log}[(h_.)*((i_.) + (j_.)*(x_))^{(m_.)}]* (g_.)))/(x_), x_Symbol] \rightarrow \text{Simp}[\text{Log}[x]*(a + b*\text{Log}[c*(d + e*x)^n])*(f + g*\text{Log}[h*(i + j*x)^m]), x] + (-\text{Simp}[e*g*m \text{ Int}[\text{Log}[x]*(a + b*\text{Log}[c*(d + e*x)^n])/(d + e*x), x], x] - \text{Simp}[b*j*n \text{ Int}[\text{Log}[x]*(f + g*\text{Log}[h*(i + j*x)^m])/(i + j*x), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, h, i, j, m, n\}, x] \&\& \text{EqQ}[e*i - d*j, 0]$
2885. $\text{Int}[(\text{Log}[(a_) + (b_.)*(x_)]*\text{Log}[(c_) + (d_.)*(x_)])/(x_), x_Symbol] \rightarrow \text{Simp}[\text{Log}[(-b)*(x/a)]*\text{Log}[a + b*x]*\text{Log}[c + d*x], x] + (\text{Simp}[(1/2)*(\text{Log}[(-b)*(x/a)] - \text{Log}[(-b*c - a*d)*(x/(a*(c + d*x))]) + \text{Log}[(b*c - a*d)/(b*(c + d*x)])]*\text{Log}[a*((c + d*x)/(c*(a + b*x)))]^2, x] - \text{Simp}[(1/2)*(\text{Log}[(-b)*(x/a)] - \text{Log}[(-d)*(x/c)])*(\text{Log}[a + b*x] + \text{Log}[a*((c + d*x)/(c*(a + b*x)))]^2, x] + \text{Simp}[(\text{Log}[c + d*x] - \text{Log}[a*((c + d*x)/(c*(a + b*x)))])*\text{PolyLog}[2, 1 + b*(x/a)], x] + \text{Simp}[(\text{Log}[a + b*x] + \text{Log}[a*((c + d*x)/(c*(a + b*x)))])*\text{PolyLog}[2, 1 + d*(x/c)], x] + \text{Simp}[\text{Log}[a*((c + d*x)/(c*(a + b*x)))]*\text{PolyLog}[2, c*((a + b*x)/(a*(c + d*x)))]], x] - \text{Simp}[\text{Log}[a*((c + d*x)/(c*(a + b*x)))]*\text{PolyLog}[2, d*((a + b*x)/(b*(c + d*x)))]], x] - \text{Simp}[\text{PolyLog}[3, 1 + b*(x/a)], x] - \text{Simp}[\text{PolyLog}[3, 1 + d*(x/c)], x] + \text{Simp}[\text{PolyLog}[3, c*((a + b*x)/(a*(c + d*x)))]], x] - \text{Simp}[\text{PolyLog}[3, d*((a + b*x)/(b*(c + d*x)))]], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$

2886. $\text{Int}[(\text{Log}[v_]\text{Log}[w_])/(x_), x_Symbol] \rightarrow \text{Int}[\text{Log}[\text{ExpandToSum}[v, x]](\text{Log}[\text{ExpandToSum}[w, x]]/x), x] /; \text{LinearQ}[\{v, w\}, x] \&\& \text{!LinearMatchQ}[\{v, w\}, x]$
2887. $\text{Int}[(\text{Log}[(c_)((d_ + (e_)(x_))^n])\text{Log}[(h_)((i_ + (j_)(x_))^m])]/(x_), x_Symbol] \rightarrow \text{Simp}[m \text{ Int}[\text{Log}[i + j*x](\text{Log}[c*(d + e*x)^n]/x), x], x] - \text{Simp}[(m*\text{Log}[i + j*x] - \text{Log}[h*(i + j*x)^m]) \text{ Int}[\text{Log}[c*(d + e*x)^n]/x, x], x] /; \text{FreeQ}[\{c, d, e, h, i, j, m, n\}, x] \&\& \text{NeQ}[e*i - d*j, 0] \&\& \text{NeQ}[i + j*x, h*(i + j*x)^m]$
2888. $\text{Int}[(((a_ + \text{Log}[(c_)((d_ + (e_)(x_))^n])*(b_))(\text{Log}[(h_)((i_ + (j_)(x_))^m])*(g_ + (f_)))/(x_), x_Symbol] \rightarrow \text{Simp}[f \text{ Int}[(a + b*\text{Log}[c*(d + e*x)^n])/x, x], x] + \text{Simp}[g \text{ Int}[\text{Log}[h*(i + j*x)^m]*(a + b*\text{Log}[c*(d + e*x)^n])/x, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, i, j, m, n\}, x] \&\& \text{NeQ}[e*i - d*j, 0]$
2889. $\text{Int}[((a_ + \text{Log}[(c_)((d_ + (e_)(x_))^n])*(b_))^p*(f_ + \text{Log}[(h_)((i_ + (j_)(x_))^m])*(g_))(x_)^r, x_Symbol] \rightarrow \text{Simp}[x^{(r+1)}*(a + b*\text{Log}[c*(d + e*x)^n])^p*(f + g*\text{Log}[h*(i + j*x)^m])/(r+1), x] + (-\text{Simp}[g*j*(m/(r+1)) \text{ Int}[x^{(r+1)}*((a + b*\text{Log}[c*(d + e*x)^n])^p/(i + j*x), x], x] - \text{Simp}[b*e*n*(p/(r+1)) \text{ Int}[x^{(r+1)}*(a + b*\text{Log}[c*(d + e*x)^n])^{(p-1)}*((f + g*\text{Log}[h*(i + j*x)^m])/(d + e*x), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, i, j, m, n\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IntegerQ}[r] \&\& (\text{EqQ}[p, 1] || \text{GtQ}[r, 0]) \&\& \text{NeQ}[r, -1]$
2890. $\text{Int}[((a_ + \text{Log}[(c_)((d_ + (e_)(x_))^n])*(b_))*((f_ + \text{Log}[(h_)((i_ + (j_)(x_))^m])*(g_))*((k_ + (l_)(x_)^r), x_Symbol] \rightarrow \text{Simp}[1/l \text{ Subst}[\text{Int}[x^r*(a + b*\text{Log}[c*(-(e*k - d*1)/1 + e*(x/l)^n)]*(f + g*\text{Log}[h*(-(j*k - i*1)/1 + j*(x/l)^m)], x], x, k + l*x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, i, j, k, l, m, n\}, x] \&\& \text{IntegerQ}[r]$
2891. $\text{Int}[((a_ + \text{Log}[(c_)((d_ + (e_)(x_))^n])*(b_))^p*(f_ + \text{Log}[(h_)((i_ + (j_)(x_))^m])*(g_))^q*(k_ + (l_)(x_)^r), x_Symbol] \rightarrow \text{Unintegrable}[(k + l*x)^r*(a + b*\text{Log}[c*(d + e*x$

- $$)^n)^p*(f + g*\text{Log}[h*(i + j*x)^m])^q, x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, i, j, k, l, m, n, p, q, r\}, x]$$
2892. `Int[(((a_) + Log[(c_)*((d_) + (e_)*(x_))^(n_)])*(b_))^(p_)*PolyLog[k_, (h_) + (i_)*(x_)])/((f_) + (g_)*(x_)), x_Symbol] := Simp[1/g Subst[Int[PolyLog[k, h*(x/d)]*((a + b*Log[c*x^n])^p/x), x], x, d + e*x], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, k, n}, x] && EqQ[e*f - d*g, 0] && EqQ[g*h - f*i, 0] && IGtQ[p, 0]`
2893. `Int[((a_) + Log[(c_)*((d_) + (e_)*(x_))^(n_)])*(b_))*(Px_)*(F_)[(f_)*((g_) + (h_)*(x_))], x_Symbol] := With[{u = IntHide[Px*F[f*(g + h*x)], x]}, Simp[(a + b*Log[c*(d + e*x)^n]) u, x] - Simp[b*e*n Int[SimplifyIntegrand[u/(d + e*x), x], x], x]] /; FreeQ[{a, b, c, d, e, f, g, h, n}, x] && PolynomialQ[Px, x] && MemberQ[{ArcSin, ArcCos, ArcTan, ArcCot, ArcSinh, ArcCosh, ArcTanh, ArcCoth}, F]`
2894. `Int[((a_) + Log[(c_)*(v_)^(n_)])*(b_))^(p_)*(u_), x_Symbol] := Int[u*(a + b*Log[c*ExpandToSum[v, x]^n])^p, x] /; FreeQ[{a, b, c, n, p}, x] && LinearQ[v, x] && !LinearMatchQ[v, x] && !(EqQ[n, 1] && MatchQ[c*v, (e_)*((f_) + (g_)*x)] /; FreeQ[{e, f, g}, x])]`
2895. `Int[((a_) + Log[(c_)*((d_)*((e_) + (f_)*(x_))^(m_))^(n_)])*(b_))^(p_)*(u_), x_Symbol] := Subst[Int[u*(a + b*Log[c*d^n*(e + f*x)^(m*n)])^p, x], c*d^n*(e + f*x)^(m*n), c*(d*(e + f*x)^m)^n] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && !IntegerQ[n] && !(EqQ[d, 1] && EqQ[m, 1]) && IntegralFreeQ[IntHide[u*(a + b*Log[c*d^n*(e + f*x)^(m*n)])^p, x]`
2896. `Int[((a_) + Log[(c_)*((d_)*((e_) + (f_)*(x_))^(m_))^(n_)])*(b_))^(p_)*(AFx_), x_Symbol] := Unintegrable[AFx*(a + b*Log[c*(d*(e + f*x)^m)^n])^p, x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && AlgebraicFunctionQ[AFx, x, True]`
2897. `Int[Log[u]*(Pq_)^(m_), x_Symbol] := With[{C = FullSimplify[Pq^m*((1 - u)/D[u, x])]}, Simp[C*PolyLog[2, 1 - u], x] /; FreeQ[C, x] /; IntegerQ[m] && PolyQ[Pq, x] && RationalFunctionQ[u, x] && LeQ[RationalFunctionQ[u, x], 1]}`

ionExponents[u, x][[2]], Expon[Pq, x]]

2898. $\text{Int}[\text{Log}[(c_)*((d_)+(e_)*(x_)^{(n_)})^{(p_)}], x_Symbol] \rightarrow \text{Simp}[x*\text{Log}[c*(d+e*x^n)^p], x] - \text{Simp}[e*n*p \text{ Int}[x^n/(d+e*x^n), x], x] /; \text{FreeQ}\{c, d, e, n, p\}, x]$
2899. $\text{Int}[(a_)+\text{Log}[(c_)*((d_)+(e_)/(x_))^{(p_)}]*(b_)]^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(e+d*x)*((a+b*\text{Log}[c*(d+e/x)^p])^q/d), x] + \text{Simp}[b*e*p*(q/d) \text{ Int}[(a+b*\text{Log}[c*(d+e/x)^p])^{(q-1)}/x, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x] \&\& \text{IGtQ}[q, 0]$
2900. $\text{Int}[(a_)+\text{Log}[(c_)*((d_)+(e_)*(x_)^{(n_)})^{(p_)}]*(b_)]^{(q_)}, x_Symbol] \rightarrow \text{Simp}[x*(a+b*\text{Log}[c*(d+e*x^n)^p])^q, x] - \text{Simp}[b*e*n*p*q \text{ Int}[x^n*((a+b*\text{Log}[c*(d+e*x^n)^p])^{(q-1)})/(d+e*x^n), x], x] /; \text{FreeQ}\{a, b, c, d, e, n, p\}, x] \&\& \text{IGtQ}[q, 0] \&\& (\text{EqQ}[q, 1] \parallel \text{IntegerQ}[n])$
2901. $\text{Int}[(a_)+\text{Log}[(c_)*((d_)+(e_)*(x_)^{(n_)})^{(p_)}]*(b_)]^{(q_)}, x_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[n]\}, \text{Simp}[k \text{ Subst}[\text{Int}[x^{(k-1)}*(a+b*\text{Log}[c*(d+e*x^{(k*n)})^p])^q, x], x, x^{(1/k)}], x] /; \text{FreeQ}\{a, b, c, d, e, p, q\}, x] \&\& \text{FractionQ}[n]$
2902. $\text{Int}[(a_)+\text{Log}[(c_)*((d_)+(e_)*(x_)^{(n_)})^{(p_)}]*(b_)]^{(q_)}, x_Symbol] \rightarrow \text{Unintegrable}[(a+b*\text{Log}[c*(d+e*x^n)^p])^q, x] /; \text{FreeQ}\{a, b, c, d, e, n, p, q\}, x]$
2903. $\text{Int}[(a_)+\text{Log}[(c_)*(v_)^{(p_)}]*(b_)]^{(q_)}, x_Symbol] \rightarrow \text{Int}[(a+b*\text{Log}[c*\text{ExpandToSum}[v, x]^p])^q, x] /; \text{FreeQ}\{a, b, c, p, q\}, x] \&\& \text{BinomialQ}[v, x] \&\& \text{!BinomialMatchQ}[v, x]$
2904. $\text{Int}[(a_)+\text{Log}[(c_)*((d_)+(e_)*(x_)^{(n_)})^{(p_)}]*(b_)]^{(q_)}*(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m+1)/n)-1})*((a+b*\text{Log}[c*(d+e*x)^p])^q), x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p, q\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m+1)/n]] \&\& (\text{GtQ}[(m+1)/n, 0] \parallel \text{IGtQ}[q, 0]) \&\& \text{!(EqQ}[q, 1] \&\& \text{ILtQ}[n, 0] \&\& \text{IGtQ}[m, 0])$

2905. $\text{Int}[(a_.) + \text{Log}[c_.*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]*b_.)*((f_.)*(x_.)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*((a + b*\text{Log}[c*(d + e*x^n)^p])/(f*(m+1))), x] - \text{Simp}[b*e*n*(p/(f*(m+1))) \text{Int}[x^{(n-1)}*((f*x)^{(m+1)}/(d + e*x^n)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{NeQ}[m, -1]$
2906. $\text{Int}[(a_.) + \text{Log}[c_.*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]*b_.)^{(q_.)}*((f_.)*(x_.)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[(f*x)^m/x^m \text{Int}[x^m*(a + b*\text{Log}[c*(d + e*x^n)^p])^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p, q\}, x] \&\& \text{IntegerQ}[\text{Simplify}[m+1/n]] \&\& (\text{GtQ}[m+1/n, 0] \parallel \text{IGtQ}[q, 0])$
2907. $\text{Int}[(a_.) + \text{Log}[c_.*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]*b_.)^{(q_.)}*((f_.)*(x_.)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*((a + b*\text{Log}[c*(d + e*x^n)^p])^q/(f*(m+1))), x] - \text{Simp}[b*e*n*p*(q/(f^n*(m+1))) \text{Int}[(f*x)^{(m+n)}*((a + b*\text{Log}[c*(d + e*x^n)^p])^{(q-1)}/(d + e*x^n)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x] \&\& \text{IGtQ}[q, 1] \&\& \text{IntegerQ}[n] \&\& \text{NeQ}[m, -1]$
2908. $\text{Int}[(a_.) + \text{Log}[c_.*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]*b_.)^{(q_.)}*(x_.)^{(m_.)}), x_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[n]\}, \text{Simp}[k \text{Subst}[\text{Int}[x^{(k*(m+1)-1)}*(a + b*\text{Log}[c*(d + e*x^{(k*n)})^p])^q, x], x, x^{(1/k)}], x] /; \text{FreeQ}\{a, b, c, d, e, m, p, q\}, x] \&\& \text{FractionQ}[n]$
2909. $\text{Int}[(a_.) + \text{Log}[c_.*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]*b_.)^{(q_.)}*((f_.)*(x_.)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[(f*x)^m/x^m \text{Int}[x^m*(a + b*\text{Log}[c*(d + e*x^n)^p])^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p, q\}, x] \&\& \text{FractionQ}[n]$
2910. $\text{Int}[(a_.) + \text{Log}[c_.*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]*b_.)^{(q_.)}*((f_.)*(x_.)^{(m_.)}), x_Symbol] \rightarrow \text{Unintegrable}[(f*x)^m*(a + b*\text{Log}[c*(d + e*x^n)^p])^q, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p, q\}, x]$
2911. $\text{Int}[(a_.) + \text{Log}[c_.*(v_.)^{(p_.)}]*b_.)^{(q_.)}*((f_.)*(x_.)^{(m_.)}), x_Symbol] \rightarrow \text{Int}[(f*x)^m*(a + b*\text{Log}[c*\text{ExpandToSum}[v, x]^p])^q, x] /; \text{FreeQ}\{a, b, c, f, m, p, q\}, x] \&\& \text{BinomialQ}[v, x] \&\& !\text{BinomialMatchQ}[v, x]$

2912. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]* (b_.)]/((f_.) + (g_.)*(x_)), x_Symbol] := \text{Simp}[\text{Log}[f + g*x]*((a + b*\text{Log}[c*(d + e*x^n)^p])/g), x] - \text{Simp}[b*e*n*(p/g) \text{Int}[x^{(n-1)}*(\text{Log}[f + g*x]/(d + e*x^n)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, p\}, x] \&\& \text{RationalQ}[n]$
2913. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]* (b_.)]*((f_.) + (g_.)*(x_))^{(r_.)}, x_Symbol] := \text{Simp}[(f + g*x)^{(r+1)}*((a + b*\text{Log}[c*(d + e*x^n)^p])/(g*(r+1))), x] - \text{Simp}[b*e*n*(p/(g*(r+1))) \text{Int}[x^{(n-1)}*(f + g*x)^{(r+1)}/(d + e*x^n), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, p, r\}, x] \&\& (\text{IGtQ}[r, 0] \|\ \text{RationalQ}[n]) \&\& \text{NeQ}[r, -1]$
2914. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]* (b_.)]^{(q_.)}* ((f_.) + (g_.)*(x_))^{(r_.)}, x_Symbol] := \text{Unintegrable}[(f + g*x)^r*(a + b*\text{Log}[c*(d + e*x^n)^p])^q, x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, p, q, r\}, x]$
2915. $\text{Int}[(a_.) + \text{Log}[(c_.)*(v_.)^{(p_.)}]* (b_.)]^{(q_.)}*(u_.)^{(r_.)}, x_Symbol] := \text{Int}[\text{ExpandToSum}[u, x]^r*(a + b*\text{Log}[c*\text{ExpandToSum}[v, x]^p])^q, x] /; \text{FreeQ}\{a, b, c, p, q, r\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{BinomialQ}[v, x] \&\& !(\text{LinearMatchQ}[u, x] \&\& \text{BinomialMatchQ}[v, x])$
2916. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]* (b_.)]^{(q_.)}*(x_.)^{(m_.)}* ((f_.) + (g_.)*(x_))^{(r_.)}, x_Symbol] := \text{Int}[\text{ExpandIntegrand}[(a + b*\text{Log}[c*(d + e*x^n)^p])^q, x^m*(f + g*x)^r, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, p, q\}, x] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[r]$
2917. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]* (b_.)]^{(q_.)}*((h_.)*(x_))^{(m_.)}* ((f_.) + (g_.)*(x_))^{(r_.)}, x_Symbol] := \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k/h \text{Subst}[\text{Int}[x^{(k*(m+1)-1)}*(f + g*(x^k/h))^r*(a + b*\text{Log}[c*(d + e*(x^{(k*n)}/h^n))^p])^q, x], x, (h*x)^{(1/k)}], x]] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, p, r\}, x] \&\& \text{FractionQ}[m] \&\& \text{IntegerQ}[n] \&\& \text{IntegerQ}[r]$
2918. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)})^{(p_.)}]* (b_.)]^{(q_.)}*((h_.)*(x_))^{(m_.)}* ((f_.) + (g_.)*(x_))^{(r_.)}, x_Symbol] := \text{Unintegrable}[(h*x)^m*(f + g*x)^r*(a + b*\text{Log}[c*(d + e*x^n)^p])^q, x] /; \text{FreeQ}\{a, b$

- , c, d, e, f, g, h, m, n, p, q, r}, x]
2919. $\text{Int}[(a_.) + \text{Log}[(c_.)(v_.)^{(p_.)}](b_.)]^{(q_.)}(u_.)^{(r_.)}((h_.)(x_.)^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(h*x)^m \text{ExpandToSum}[u, x]^r (a + b \text{Log}[c \text{ExpandToSum}[v, x]^p])^q, x] /; \text{FreeQ}[\{a, b, c, h, m, p, q, r\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{BinomialQ}[v, x] \&\& \text{!(LinearMatchQ}[u, x] \&\& \text{BinomialMatchQ}[v, x])$
2920. $\text{Int}[(a_.) + \text{Log}[(c_.)((d_.) + (e_.)(x_.)^{(n_.)})^{(p_.)}](b_.)]/((f_.) + (g_.)(x_.)^2), x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[1/(f + g*x^2), x]\}, \text{Simp}[u*(a + b \text{Log}[c*(d + e*x^n)^p]), x] - \text{Simp}[b*e*n*p \text{Int}[u*(x^{(n-1)})/(d + e*x^n)], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p\}, x] \&\& \text{IntegerQ}[n]$
2921. $\text{Int}[(a_.) + \text{Log}[(c_.)((d_.) + (e_.)(x_.)^{(n_.)})^{(p_.)}](b_.)]^{(q_.)}((f_.) + (g_.)(x_.)^{(s_.)})^{(r_.)}, x_Symbol] \rightarrow \text{With}[\{t = \text{ExpandIntegrand}[(a + b \text{Log}[c*(d + e*x^n)^p])^q, (f + g*x^s)^r, x]\}, \text{Int}[t, x] /; \text{SumQ}[t]] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p, q, r, s\}, x] \&\& \text{IntegerQ}[n] \&\& \text{IGtQ}[q, 0] \&\& \text{IntegerQ}[r] \&\& \text{IntegerQ}[s] \&\& (\text{EqQ}[q, 1] || (\text{GtQ}[r, 0] \&\& \text{GtQ}[s, 1]) || (\text{LtQ}[s, 0] \&\& \text{LtQ}[r, 0]))$
2922. $\text{Int}[(a_.) + \text{Log}[(c_.)((d_.) + (e_.)(x_.)^{(n_.)})^{(p_.)}](b_.)]^{(q_.)}((f_.) + (g_.)(x_.)^{(s_.)})^{(r_.)}, x_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[n]\}, \text{Simp}[k \text{Subst}[\text{Int}[x^{(k-1)}(f + g*x^{(k*s)})^r (a + b \text{Log}[c*(d + e*x^{(k*n)})^p])^q, x], x, x^{(1/k)}], x] /; \text{IntegerQ}[k*s] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p, q, r, s\}, x] \&\& \text{FractionQ}[n]$
2923. $\text{Int}[(a_.) + \text{Log}[(c_.)((d_.) + (e_.)(x_.)^{(n_.)})^{(p_.)}](b_.)]^{(q_.)}((f_.) + (g_.)(x_.)^{(s_.)})^{(r_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(f + g*x^s)^r (a + b \text{Log}[c*(d + e*x^n)^p])^q, x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p, q, r, s\}, x]$
2924. $\text{Int}[(a_.) + \text{Log}[(c_.)(v_.)^{(p_.)}](b_.)]^{(q_.)}(u_.)^{(r_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^r (a + b \text{Log}[c \text{ExpandToSum}[v, x]^p])^q, x] /; \text{FreeQ}[\{a, b, c, p, q, r\}, x] \&\& \text{BinomialQ}[\{u, v\}, x] \&\& \text{!BinomialMatchQ}[\{u, v\}, x]$

2925. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_)^(n_))^(p_.)]*(b_.))^(q_.)*(x_)^(m_.)*((f_) + (g_.)*(x_)^(s_))^(r_.), x_Symbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(f + g*x^(s/n))^r*(a + b*Log[c*(d + e*x)^p]]^q, x], x, x^n], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p, q, r, s}, x] && IntegerQ[r] && IntegerQ[s/n] && IntegerQ[Simplify[(m + 1)/n]] && (GtQ[(m + 1)/n, 0] || IGtQ[q, 0])`
2926. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_)^(n_))^(p_.)]*(b_.))^(q_.)*(x_)^(m_.)*((f_) + (g_.)*(x_)^(s_))^(r_.), x_Symbol] := Int[ExpandIntegrand[(a + b*Log[c*(d + e*x^n)^p]]^q, x^m*(f + g*x^s)^r, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p, q, r, s}, x] && IGtQ[q, 0] && IntegerQ[m] && IntegerQ[r] && IntegerQ[s]`
2927. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_)^(n_))^(p_.)]*(b_.))^(q_.)*(x_)^(m_.)*((f_) + (g_.)*(x_)^(s_))^(r_.), x_Symbol] := Simp[1/n Subst[Int[x^(m + 1/n - 1)*(f + g*x^(s/n))^r*(a + b*Log[c*(d + e*x)^p]]^q, x], x, x^n], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p, q, r, s}, x] && FractionQ[n] && IntegerQ[1/n] && IntegerQ[s/n]`
2928. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_)^(n_))^(p_.)]*(b_.))^(q_.)*((h_.)*(x_)^(m_.)*((f_.) + (g_.)*(x_)^(s_))^(r_.), x_Symbol] := With[{k = Denominator[m]}, Simp[k/h Subst[Int[x^(k*(m + 1) - 1)*(f + g*(x^(k*s)/h^s))^r*(a + b*Log[c*(d + e*(x^(k*n)/h^n))^p]]^q, x], x, (h*x)^(1/k)], x] /; FreeQ[{a, b, c, d, e, f, g, h, p, r}, x] && FractionQ[m] && IntegerQ[n] && IntegerQ[s]`
2929. `Int[((a_.) + Log[(c_.)*((d_) + (e_.)*(x_)^(n_))^(p_.)]*(b_.))^(q_.)*((h_.)*(x_)^(m_.)*((f_) + (g_.)*(x_)^(s_))^(r_.), x_Symbol] := Unintegrateable[(h*x)^m*(f + g*x^s)^r*(a + b*Log[c*(d + e*x^n)^p]]^q, x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, p, q, r, s}, x]`
2930. `Int[((a_.) + Log[(c_.)*(v_)^(p_.)]*(b_.))^(q_.)*(u_)^(r_.)*((h_.)*(x_)^(m_.), x_Symbol] := Int[(h*x)^m*ExpandToSum[u, x]^r*(a + b*Log[c*ExpandToSum[v, x]^p]]^q, x] /; FreeQ[{a, b, c, h, m, p, q, r}, x] && BinomialQ[{u, v}, x] && !BinomialMatchQ[{u, v}, x]`

2931. $\text{Int}[(\text{Log}[(f_.)*(x_)^{(q_)}])^{(m_)}*((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_)^{(n_)}])^{(p_)}])^{(b_)}]/(x_), x_Symbol] := \text{Simp}[\text{Log}[f*x^q]^{(m+1)}*((a + b*\text{Log}[c*(d + e*x^n)^p])/(q*(m+1))), x] - \text{Simp}[b*e*n*(p/(q*(m+1))) \text{Int}[x^{(n-1)}*(\text{Log}[f*x^q]^{(m+1)})/(d + e*x^n), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p, q\}, x] \&\& \text{NeQ}[m, -1]$
2932. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_)^{(n_)}])^{(p_)}])^{(b_)}*(F_)[(f_.)*(x_)]^{(m_)}, x_Symbol] := \text{With}[\{u = \text{IntHide}[F[f*x]^m, x]\}, \text{Simp}[(a + b*\text{Log}[c*(d + e*x^n)^p]) u, x] - \text{Simp}[b*e*n*p \text{Int}[\text{SimplifyIntegrand}[u*(x^{(n-1)})/(d + e*x^n), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, p\}, x] \&\& \text{MemberQ}[\{\text{ArcSin}, \text{ArcCos}, \text{ArcSinh}, \text{ArcCosh}\}, F] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 1]$
2933. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*((f_.) + (g_.)*(x_))^{(n_)}])^{(p_)}])^{(b_)}]^{(q_)}, x_Symbol] := \text{Simp}[1/g \text{Subst}[\text{Int}[(a + b*\text{Log}[c*(d + e*x^n)^p])^q, x], x, f + g*x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p\}, x] \&\& \text{IGtQ}[q, 0] \&\& (\text{EqQ}[q, 1] || \text{IntegerQ}[n])$
2934. $\text{Int}[(a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*((f_.) + (g_.)*(x_))^{(n_)}])^{(p_)}])^{(b_)}]^{(q_)}, x_Symbol] := \text{Unintegrable}[(a + b*\text{Log}[c*(d + e*(f + g*x)^n)^p])^q, x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p, q\}, x]$
2935. $\text{Int}[(A_.) + \text{Log}[(e_.)*((a_.) + (b_.)*(x_)) / ((c_.) + (d_.)*(x_))]^{(n_)}]^{(B_)}]^{(p_)}, x_Symbol] := \text{Simp}[(a + b*x)*((A + B*\text{Log}[e*((a + b*x)/(c + d*x))^n])^p/b), x] - \text{Simp}[B*n*p*((b*c - a*d)/b) \text{Int}[(A + B*\text{Log}[e*((a + b*x)/(c + d*x))^n])^{(p-1)} / (c + d*x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IGtQ}[p, 0]$
2936. $\text{Int}[(A_.) + \text{Log}[(e_.)*((a_.) + (b_.)*(x_))^{(n_)} / ((c_.) + (d_.)*(x_))^{(mn)}]^{(B_)}]^{(p_)}, x_Symbol] := \text{Simp}[(a + b*x)*((A + B*\text{Log}[e*((a + b*x)^n / (c + d*x)^n])^p/b), x] - \text{Simp}[B*n*p*((b*c - a*d)/b) \text{Int}[(A + B*\text{Log}[e*((a + b*x)^n / (c + d*x)^n])^{(p-1)} / (c + d*x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, A, B, n\}, x] \&\& \text{EqQ}[n + mn, 0] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IGtQ}[p, 0]$
2937. $\text{Int}[(A_.) + \text{Log}[(e_.)*((a_.) + (b_.)*(x_)) / ((c_.) + (d_.)*(x_))]^{(n_)}]^{(B_)}]^{(p_)}, x_Symbol] := \text{Unintegrable}[(A + B*\text{Log}[e*((a + b*x)/(c$

- $(+ d*x))^n]^p, x] /; \text{FreeQ}\{a, b, c, d, e, A, B, n, p\}, x]$
2938. $\text{Int}[(A + \text{Log}[e * ((a + (b * x))^n] * ((c + (d * x))^n)]) * (B)]^p, x_Symbol] :> \text{Unintegrable}[(A + B * \text{Log}[e * (a + b * x)^n] / (c + d * x)^n]^p, x] /; \text{FreeQ}\{a, b, c, d, e, A, B, n, p\}, x] \&\& \text{EqQ}[n + mn, 0]$
2939. $\text{Int}[(A + \text{Log}[e * ((u)/(v))^n] * (B)]^p, x_Symbol] :> \text{Int}[(A + B * \text{Log}[e * (\text{ExpandToSum}[u, x] / \text{ExpandToSum}[v, x])^n]]^p, x] /; \text{FreeQ}\{e, A, B, n, p\}, x] \&\& \text{LinearQ}\{u, v\}, x] \&\& !\text{LinearMatchQ}\{u, v\}, x]$
2940. $\text{Int}[(A + \text{Log}[e * (u)^n * (v)^{mn}] * (B)]^p, x_Symbol] :> \text{Int}[(A + B * \text{Log}[e * (\text{ExpandToSum}[u, x]^n / \text{ExpandToSum}[v, x]^n)]]^p, x] /; \text{FreeQ}\{e, A, B, n, p\}, x] \&\& \text{EqQ}[n + mn, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{LinearQ}\{u, v\}, x] \&\& !\text{LinearMatchQ}\{u, v\}, x]$
2941. $\text{Int}[(A + \text{Log}[e * ((a + (b * x)) / ((c + (d * x))^n)]) * (B)] / ((f + (g * x))), x_Symbol] :> \text{Simp}[(-\text{Log}[-(b * c - a * d) / (d * (a + b * x))]) * ((A + B * \text{Log}[e * ((a + b * x) / (c + d * x))^n]) / g), x] + \text{Simp}[B * n * ((b * c - a * d) / g) \text{Int}[\text{Log}[-(b * c - a * d) / (d * (a + b * x))] / ((a + b * x) * (c + d * x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x] \&\& \text{NeQ}[b * c - a * d, 0] \&\& \text{EqQ}[b * f - a * g, 0]$
2942. $\text{Int}[(A + \text{Log}[e * ((a + (b * x))^n] * ((c + (d * x))^n)]) * (B)] / ((f + (g * x))), x_Symbol] :> \text{Simp}[(-\text{Log}[-(b * c - a * d) / (d * (a + b * x))]) * ((A + B * \text{Log}[e * ((a + b * x)^n / (c + d * x)^n]) / g), x] + \text{Simp}[B * n * ((b * c - a * d) / g) \text{Int}[\text{Log}[-(b * c - a * d) / (d * (a + b * x))] / ((a + b * x) * (c + d * x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x] \&\& \text{EqQ}[n + mn, 0] \&\& \text{NeQ}[b * c - a * d, 0] \&\& \text{EqQ}[b * f - a * g, 0]$
2943. $\text{Int}[(A + \text{Log}[e * ((a + (b * x)) / ((c + (d * x))^n)]) * (B)] / ((f + (g * x))), x_Symbol] :> \text{Simp}[(-\text{Log}[(b * c - a * d) / (b * (c + d * x))]) * ((A + B * \text{Log}[e * ((a + b * x) / (c + d * x))^n]) / g), x] + \text{Simp}[B * n * ((b * c - a * d) / g) \text{Int}[\text{Log}[(b * c - a * d) / (b * (c + d * x))] / ((a + b * x) * (c + d * x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x] \&\& \text{NeQ}[b * c$

- a*d, 0] && EqQ[d*f - c*g, 0]
2944. $\text{Int}[\frac{(A + \text{Log}[(e + (a + b*x)^n] * (c + d*x)))^{mn} * B}{(f + (g + x))}, x_Symbol] \rightarrow \text{Simp}[\frac{-\text{Log}[(b*c - a*d)/(b*(c + d*x))]}{(A + B*\text{Log}[e*((a + b*x)^n/(c + d*x)^n])]/g}, x] + \text{Simp}[B*n*(b*c - a*d)/g \text{ Int}[\text{Log}[(b*c - a*d)/(b*(c + d*x))]/((a + b*x)*(c + d*x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x\} \&\& \text{EqQ}[n + mn, 0] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[d*f - c*g, 0]$
2945. $\text{Int}[\frac{(A + \text{Log}[(e + ((a + b*x)/(c + d*x))^n] * B)}{(f + (g + x))}, x_Symbol] \rightarrow \text{Simp}[\text{Log}[f + g*x] * (A + B*\text{Log}[e*((a + b*x)/(c + d*x))^n])/g], x] + (-\text{Simp}[b*B*(n/g) \text{ Int}[\text{Log}[f + g*x]/(a + b*x), x], x] + \text{Simp}[B*d*(n/g) \text{ Int}[\text{Log}[f + g*x]/(c + d*x), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x\} \&\& \text{NeQ}[b*c - a*d, 0]$
2946. $\text{Int}[\frac{(A + \text{Log}[(e + (a + b*x)^n] * (c + d*x)))^{mn} * B}{(f + (g + x))}, x_Symbol] \rightarrow \text{Simp}[\text{Log}[f + g*x] * (A + B*\text{Log}[e*((a + b*x)^n/(c + d*x)^n])]/g], x] + (-\text{Simp}[b*B*(n/g) \text{ Int}[\text{Log}[f + g*x]/(a + b*x), x], x] + \text{Simp}[B*d*(n/g) \text{ Int}[\text{Log}[f + g*x]/(c + d*x), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x\} \&\& \text{EqQ}[n + mn, 0] \&\& \text{NeQ}[b*c - a*d, 0]$
2947. $\text{Int}[\frac{(A + \text{Log}[(e + ((a + b*x)/(c + d*x))^n] * B)}{(f + (g + x))^m}, x_Symbol] \rightarrow \text{Simp}[(f + g*x)^{m+1} * (A + B*\text{Log}[e*((a + b*x)/(c + d*x))^n])/(g*(m+1))], x] - \text{Simp}[B*n*(b*c - a*d)/(g*(m+1)) \text{ Int}[(f + g*x)^{m+1}/((a + b*x)*(c + d*x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, m, n\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[m, -1] \&\& \text{NeQ}[m, -2]$
2948. $\text{Int}[\frac{(A + \text{Log}[(e + (a + b*x)^n] * (c + d*x)))^{mn} * B}{(f + (g + x))^m}, x_Symbol] \rightarrow \text{Simp}[(f + g*x)^{m+1} * (A + B*\text{Log}[e*((a + b*x)^n/(c + d*x)^n])]/(g*(m+1))], x] - \text{Simp}[B*n*(b*c - a*d)/(g*(m+1)) \text{ Int}[(f + g*x)^{m+1}/((a + b*x)*(c + d*x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, m, n\}, x\} \&\& \text{EqQ}[n + mn, 0] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[m, -1] \&\& !(\text{EqQ}[m, -2] \&\& \text{IntegerQ}[n])$

2949. $\text{Int}[(A_.) + \text{Log}[(e_.) * ((a_.) + (b_.) * (x_.)) / ((c_.) + (d_.) * (x_.))]^{(n_.)} * (B_.)^{(p_.)} * ((f_.) + (g_.) * (x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)^{(m+1)} * (g/b)^m \text{Subst}[\text{Int}[x^m * ((A + B * \text{Log}[e*x^n])^p / (b - d*x)^{(m+2}))], x], x, (a + b*x)/(c + d*x)], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x\} \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IntegersQ}[m, p] \ \&\& \ \text{EqQ}[b*f - a*g, 0] \ \&\& \ (\text{GtQ}[p, 0] \ || \ \text{LtQ}[m, -1])$
2950. $\text{Int}[(A_.) + \text{Log}[(e_.) * ((a_.) + (b_.) * (x_.))^{(n_.)} * ((c_.) + (d_.) * (x_.))^{(mn_.)}] * (B_.)^{(p_.)} * ((f_.) + (g_.) * (x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)^{(m+1)} * (g/b)^m \text{Subst}[\text{Int}[x^m * ((A + B * \text{Log}[e*x^n])^p / (b - d*x)^{(m+2}))], x], x, (a + b*x)/(c + d*x)], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x\} \ \&\& \ \text{EqQ}[n + mn, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IntegersQ}[m, p] \ \&\& \ \text{EqQ}[b*f - a*g, 0] \ \&\& \ (\text{GtQ}[p, 0] \ || \ \text{LtQ}[m, -1])$
2951. $\text{Int}[(A_.) + \text{Log}[(e_.) * ((a_.) + (b_.) * (x_.)) / ((c_.) + (d_.) * (x_.))]^{(n_.)} * (B_.)^{(p_.)} * ((f_.) + (g_.) * (x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)^{(m+1)} * (g/d)^m \text{Subst}[\text{Int}[(A + B * \text{Log}[e*x^n])^p / (b - d*x)^{(m+2)}], x], x, (a + b*x)/(c + d*x)], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x\} \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IntegersQ}[m, p] \ \&\& \ \text{EqQ}[d*f - c*g, 0] \ \&\& \ (\text{GtQ}[p, 0] \ || \ \text{LtQ}[m, -1])$
2952. $\text{Int}[(A_.) + \text{Log}[(e_.) * ((a_.) + (b_.) * (x_.))^{(n_.)} * ((c_.) + (d_.) * (x_.))^{(mn_.)}] * (B_.)^{(p_.)} * ((f_.) + (g_.) * (x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)^{(m+1)} * (g/d)^m \text{Subst}[\text{Int}[(A + B * \text{Log}[e*x^n])^p / (b - d*x)^{(m+2)}], x], x, (a + b*x)/(c + d*x)], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x\} \ \&\& \ \text{EqQ}[n + mn, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IntegersQ}[m, p] \ \&\& \ \text{EqQ}[d*f - c*g, 0] \ \&\& \ (\text{GtQ}[p, 0] \ || \ \text{LtQ}[m, -1])$
2953. $\text{Int}[(A_.) + \text{Log}[(e_.) * ((a_.) + (b_.) * (x_.)) / ((c_.) + (d_.) * (x_.))]^{(n_.)} * (B_.)^{(p_.)} * ((f_.) + (g_.) * (x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(b*c - a*d) \text{Subst}[\text{Int}[(b*f - a*g - (d*f - c*g)*x)^m * ((A + B * \text{Log}[e*x^n])^p / (b - d*x)^{(m+2}))], x], x, (a + b*x)/(c + d*x)], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, g, A, B, n\}, x\} \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{IGtQ}[p, 0]$

2954. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))^(n_.)*((c_.) + (d_.)*(x_))^(mn_)])*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.), x_Symbol] := Simp[(b*c - a*d) Subst[Int[(b*f - a*g - (d*f - c*g)*x)^m*((A + B*Log[e*x^n])^p/(b - d*x)^(m + 2)), x], x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e, f, g, A, B, n}, x] && EqQ[n + mn, 0] && IGtQ[n, 0] && NeQ[b*c - a*d, 0] && IntegerQ[m] && IGtQ[p, 0]`
2955. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))/((c_.) + (d_.)*(x_))^(n_.)])*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.), x_Symbol] := Unintegrateable[(f + g*x)^m*(A + B*Log[e*((a + b*x)/(c + d*x))^n])^p, x] /; FreeQ[{a, b, c, d, e, f, g, A, B, m, n, p}, x]`
2956. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))^(n_.)*((c_.) + (d_.)*(x_))^(mn_)])*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.), x_Symbol] := Unintegrateable[(f + g*x)^m*(A + B*Log[(e*(a + b*x)^n]/(c + d*x)^n])^p, x] /; FreeQ[{a, b, c, d, e, f, g, A, B, m, n, p}, x] && EqQ[n + mn, 0] && IntegerQ[n]`
2957. `Int[((A_.) + Log[(e_.)*((u_)/(v_))^(n_.)])*(B_.))^(p_.)*(w_)^(m_.), x_Symbol] := Int[ExpandToSum[w, x]^m*(A + B*Log[e*(ExpandToSum[u, x]/ExpandToSum[v, x])^n])^p, x] /; FreeQ[{e, A, B, m, n, p}, x] && LinearQ[{u, v, w}, x] && !LinearMatchQ[{u, v, w}, x]`
2958. `Int[((A_.) + Log[(e_.)*(u_)^(n_.)*(v_)^(mn_)])*(B_.))^(p_.)*(w_)^(m_.), x_Symbol] := Int[ExpandToSum[w, x]^m*(A + B*Log[e*(ExpandToSum[u, x]^n/ExpandToSum[v, x]^n)])^p, x] /; FreeQ[{e, A, B, m, n, p}, x] && EqQ[n + mn, 0] && IGtQ[n, 0] && LinearQ[{u, v, w}, x] && !LinearMatchQ[{u, v, w}, x]`
2959. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))/((c_.) + (d_.)*(x_))^(n_.)])*(B_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_)), x_Symbol] := Simp[(f + g*x)^(m + 1)*(h + i*x)*((A + B*Log[e*((a + b*x)/(c + d*x))^n])/(g*(m + 2))), x] + Simp[i*((b*c - a*d)/(b*d*(m + 2))) Int[(f + g*x)^m*(A - B*n + B*Log[e*((a + b*x)/(c + d*x))^n]), x], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, A, B, m, n}, x] && NeQ[b*c - a*d, 0] && EqQ[b*f - a*g, 0] && EqQ[d*h - c*i, 0] && IGtQ[m, -2]`

2960. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))^(n_.)*((c_.) + (d_.)*(x_))^(mn_)])*(B_.))*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_)), x_Symbol] := Simp[(f + g*x)^(m + 1)*(h + i*x)*((A + B*Log[e*((a + b*x)^n/(c + d*x)^n]))/(g*(m + 2))), x] + Simp[i*((b*c - a*d)/(b*d*(m + 2))) Int[(f + g*x)^m*(A - B*n + B*Log[e*((a + b*x)^n/(c + d*x)^n])], x], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, A, B, m, n}, x] && EqQ[n + mn, 0] && IGtQ[n, 0] && NeQ[b*c - a*d, 0] && EqQ[b*f - a*g, 0] && EqQ[d*h - c*i, 0] && IGtQ[m, -2]`
2961. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))/((c_.) + (d_.)*(x_))]^(n_.)]*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_))^(q_.), x_Symbol] := Simp[(b*c - a*d)^(m + q + 1)*(g/b)^m*(i/d)^q Subst[Int[x^m*((A + B*Log[e*x^n])^p/(b - d*x)^(m + q + 2)), x], x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, A, B, n, p}, x] && NeQ[b*c - a*d, 0] && EqQ[b*f - a*g, 0] && EqQ[d*h - c*i, 0] && IntegerSQ[m, q]`
2962. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))^(n_.)*((c_.) + (d_.)*(x_))^(mn_)])*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_))^(q_.), x_Symbol] := Simp[(b*c - a*d)^(m + q + 1)*(g/b)^m*(i/d)^q Subst[Int[x^m*((A + B*Log[e*x^n])^p/(b - d*x)^(m + q + 2)), x], x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, A, B, n, p}, x] && EqQ[n + mn, 0] && IGtQ[n, 0] && NeQ[b*c - a*d, 0] && EqQ[b*f - a*g, 0] && EqQ[d*h - c*i, 0] && IntegersQ[m, q]`
2963. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))/((c_.) + (d_.)*(x_))]^(n_.)]*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_))^(q_.), x_Symbol] := Simp[d^2*((g*((a + b*x)/b))^m/(i^2*(b*c - a*d)*(i*((c + d*x)/d))^m*((a + b*x)/(c + d*x))^m) Subst[Int[x^m*(A + B*Log[e*x^n])^p, x], x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, A, B, m, n, p, q}, x] && NeQ[b*c - a*d, 0] && EqQ[b*f - a*g, 0] && EqQ[d*h - c*i, 0] && EqQ[m + q + 2, 0]`
2964. `Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))^(n_.)*((c_.) + (d_.)*(x_))^(mn_)])*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_))^(q_.), x_Symbol] := Simp[d^2*((g*((a + b*x)/b))^m/(i^2*(b*c - a*d)*(i*((c + d*x)/d))^m*((a + b*x)/(c + d*x))^m) Subst[Int[x^m*(A + B*Log[e`

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*x^n))^p, x], x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e, f,
g, h, i, A, B, m, n, p, q}, x] && EqQ[n + mn, 0] && IGtQ[n, 0] && NeQ[
b*c - a*d, 0] && EqQ[b*f - a*g, 0] && EqQ[d*h - c*i, 0] && EqQ[m + q +
2, 0]

2965. Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))]/((c_.) + (d_.)*(x_)))^(n_
.)* (B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_))^(q_.)
, x_Symbol] := Simp[(b*c - a*d)^(q + 1)*(i/d)^q Subst[Int[(b*f - a*g
- (d*f - c*g)*x)^m*((A + B*Log[e*x^n])^p/(b - d*x)^(m + q + 2)), x],
x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, A, B,
n}, x] && NeQ[b*c - a*d, 0] && IntegersQ[m, q] && IGtQ[p, 0] && EqQ[d
*h - c*i, 0]

2966. Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))^(n_.)*((c_.) + (d_.)*(x_))
^(mn_)]*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_))^(
q_.), x_Symbol] := Simp[(b*c - a*d)^(q + 1)*(i/d)^q Subst[Int[(b*f -
a*g - (d*f - c*g)*x)^m*((A + B*Log[e*x^n])^p/(b - d*x)^(m + q + 2)),
x], x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, A
, B, n}, x] && EqQ[n + mn, 0] && IGtQ[n, 0] && NeQ[b*c - a*d, 0] && In
tegersQ[m, q] && IGtQ[p, 0] && EqQ[d*h - c*i, 0]

2967. Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))]/((c_.) + (d_.)*(x_)))^(n_
.)* (B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_))^(q_.)
, x_Symbol] := Simp[(b*c - a*d) Subst[Int[(b*f - a*g - (d*f - c*g)*x
)^m*(b*h - a*i - (d*h - c*i)*x)^q*((A + B*Log[e*x^n])^p/(b - d*x)^(m +
q + 2)), x], x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e, f,
g, h, i, A, B, n}, x] && NeQ[b*c - a*d, 0] && IntegersQ[m, q] && IGtQ[
p, 0]

2968. Int[((A_.) + Log[(e_.)*((a_.) + (b_.)*(x_))^(n_.)*((c_.) + (d_.)*(x_))
^(mn_)]*(B_.))^(p_.)*((f_.) + (g_.)*(x_))^(m_.)*((h_.) + (i_.)*(x_))^(
q_.), x_Symbol] := Simp[(b*c - a*d) Subst[Int[(b*f - a*g - (d*f - c*
g)*x)^m*(b*h - a*i - (d*h - c*i)*x)^q*((A + B*Log[e*x^n])^p/(b - d*x)^(
m + q + 2)), x], x, (a + b*x)/(c + d*x)], x] /; FreeQ[{a, b, c, d, e,
f, g, h, i, A, B, n}, x] && EqQ[n + mn, 0] && IGtQ[n, 0] && NeQ[b*c -
a*d, 0] && IntegersQ[m, q] && IGtQ[p, 0]

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2969.  $\text{Int}[(A + \text{Log}[e \cdot ((a + b \cdot x)/(c + d \cdot x)])^{(n)}] \cdot (B)^{(p)} \cdot ((f + g \cdot x)^{(m)} \cdot (h + i \cdot x)^{(q)})$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Unintegrable}[(f + g \cdot x)^m \cdot (h + i \cdot x)^q \cdot (A + B \cdot \text{Log}[e \cdot (a + b \cdot x)/(c + d \cdot x)])^n]^p, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, g, h, i, A, B, m, n, p, q\}, x]$
2970.  $\text{Int}[(A + \text{Log}[e \cdot ((a + b \cdot x)^{(n)} \cdot (c + d \cdot x))] \cdot (B)^{(p)} \cdot ((f + g \cdot x)^{(m)} \cdot (h + i \cdot x)^{(q)})$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Unintegrable}[(f + g \cdot x)^m \cdot (h + i \cdot x)^q \cdot (A + B \cdot \text{Log}[e \cdot (a + b \cdot x)^n / (c + d \cdot x)])^n]^p, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, g, h, i, A, B, m, n, p, q\}, x]$  &&  $\text{EqQ}[n + mn, 0]$  &&  $\text{IntegerQ}[n]$
2971.  $\text{Int}[(A + \text{Log}[e \cdot ((u)/(v))^{(n)}] \cdot (B)^{(p)} \cdot (w)^{(m)} \cdot (y)^{(q)}$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Int}[\text{ExpandToSum}[w, x]^m \cdot \text{ExpandToSum}[y, x]^q \cdot (A + B \cdot \text{Log}[e \cdot (\text{ExpandToSum}[u, x] / \text{ExpandToSum}[v, x])^n])^p, x]$  /;  $\text{FreeQ}\{e, A, B, m, n, p, q\}, x]$  &&  $\text{LinearQ}\{u, v, w, y\}, x]$  &&  $\text{!LinearMatchQ}\{u, v, w, y\}, x]$
2972.  $\text{Int}[(A + \text{Log}[e \cdot (u)^{(n)} \cdot (v)^{(mn)}] \cdot (B)^{(p)} \cdot (w)^{(m)} \cdot (y)^{(q)}$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Int}[\text{ExpandToSum}[w, x]^m \cdot \text{ExpandToSum}[y, x]^q \cdot (A + B \cdot \text{Log}[e \cdot (\text{ExpandToSum}[u, x]^n / \text{ExpandToSum}[v, x]^n)])^p, x]$  /;  $\text{FreeQ}\{e, A, B, m, n, p, q\}, x]$  &&  $\text{EqQ}[n + mn, 0]$  &&  $\text{IGtQ}[n, 0]$  &&  $\text{LinearQ}\{u, v, w, y\}, x]$  &&  $\text{!LinearMatchQ}\{u, v, w, y\}, x]$
2973.  $\text{Int}[(A + \text{Log}[e \cdot (u)^{(n)} \cdot (v)^{(mn)}] \cdot (B)^{(p)} \cdot (w)$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Subst}[\text{Int}[w \cdot (A + B \cdot \text{Log}[e \cdot (u/v)^n])^p, x], e \cdot (u/v)^n, e \cdot (u^n/v^n)]$  /;  $\text{FreeQ}\{e, A, B, n, p\}, x]$  &&  $\text{EqQ}[n + mn, 0]$  &&  $\text{LinearQ}\{u, v\}, x]$  &&  $\text{!IntegerQ}[n]$
2974.  $\text{Int}[(A + \text{Log}[e \cdot ((a + b \cdot x)/(c + d \cdot x))] \cdot (B)^{(p)} \cdot ((f + g \cdot x) + (h \cdot x)^2)^{(m)}$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[h^m / (b^m \cdot d^m) \cdot \text{Int}[(a + b \cdot x)^m \cdot (c + d \cdot x)^m \cdot (A + B \cdot \text{Log}[e \cdot (a + b \cdot x)/(c + d \cdot x)])^n]^p, x]$ ,  $x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, g, h, A, B, n, p\}, x]$  &&  $\text{EqQ}[b \cdot d \cdot f - a \cdot c \cdot h, 0]$  &&  $\text{EqQ}[b \cdot d \cdot g - h \cdot (b \cdot c + a \cdot d), 0]$  &&  $\text{IntegerQ}[m]$

2975.  $\text{Int}[(A_.) + \text{Log}[(e_.)*((a_.) + (b_.)*(x_.))^{(n_.)*((c_.) + (d_.)*(x_.))^{(mn_.)}]*(B_.))^{(p_.)*((f_.) + (g_.)*(x_.) + (h_.)*(x_.)^2)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[h^m/(b^m*d^m) \text{Int}[(a + b*x)^m*(c + d*x)^m*(A + B*\text{Log}[e*(a + b*x)^n/(c + d*x)^n])]^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, A, B, n, p\}, x] \&\& \text{EqQ}[n + mn, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[b*d*f - a*c*h, 0] \&\& \text{EqQ}[b*d*g - h*(b*c + a*d), 0] \&\& \text{IntegerQ}[m]$
2976.  $\text{Int}[(A_.) + \text{Log}[(e_.)*((a_.) + (b_.)*(x_.))/(c_. + (d_.)*(x_.))]^{(n_.)}*(B_.))^{(p_.)*(\text{P2x}_.)^{(m_.)}, x\_Symbol] \rightarrow \text{With}\{f = \text{Coeff}[\text{P2x}, x, 0], g = \text{Coeff}[\text{P2x}, x, 1], h = \text{Coeff}[\text{P2x}, x, 2]\}, \text{Simp}[(b*c - a*d) \text{Subst}[\text{Int}[(b^2*f - a*b*g + a^2*h - (2*b*d*f - b*c*g - a*d*g + 2*a*c*h)*x + (d^2*f - c*d*g + c^2*h)*x^2]^{m*}((A + B*\text{Log}[e*x^n])^p/(b - d*x)^{(2*(m + 1)})), x], x, (a + b*x)/(c + d*x)], x]] /; \text{FreeQ}\{a, b, c, d, e, A, B, n\}, x] \&\& \text{PolyQ}[\text{P2x}, x, 2] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IntegerQ}[m] \&\& \text{IGtQ}[p, 0]$
2977.  $\text{Int}[(A_.) + \text{Log}[(e_.)*((a_.) + (b_.)*(x_.))^{(n_.)*((c_.) + (d_.)*(x_.))^{(mn_.)}]*(B_.))^{(p_.)*(\text{P2x}_.)^{(m_.)}, x\_Symbol] \rightarrow \text{With}\{f = \text{Coeff}[\text{P2x}, x, 0], g = \text{Coeff}[\text{P2x}, x, 1], h = \text{Coeff}[\text{P2x}, x, 2]\}, \text{Simp}[(b*c - a*d) \text{Subst}[\text{Int}[(b^2*f - a*b*g + a^2*h - (2*b*d*f - b*c*g - a*d*g + 2*a*c*h)*x + (d^2*f - c*d*g + c^2*h)*x^2]^{m*}((A + B*\text{Log}[e*x^n])^p/(b - d*x)^{(2*(m + 1)})), x], x, (a + b*x)/(c + d*x)], x]] /; \text{FreeQ}\{a, b, c, d, e, A, B, n\}, x] \&\& \text{PolyQ}[\text{P2x}, x, 2] \&\& \text{EqQ}[n + mn, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IntegerQ}[m] \&\& \text{IGtQ}[p, 0]$
2978.  $\text{Int}[\text{Log}[(e_.)*((f_.)*((a_.) + (b_.)*(x_.))^{(p_.)*((c_.) + (d_.)*(x_.))^{(q_.)}]}^{(r_.)}]^{(s_.)}*(u_.), x\_Symbol] \rightarrow \text{Int}[u*\text{Log}[e*(b^p*(f/d^p)*(c + d*x)^{(p + q)})^r]^s, x] /; \text{FreeQ}\{a, b, c, d, e, f, p, q, r, s\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{IntegerQ}[p]$
2979.  $\text{Int}[\text{Log}[(e_.)*((f_.)*((a_.) + (b_.)*(x_.))^{(p_.)*((c_.) + (d_.)*(x_.))^{(q_.)}]}^{(r_.)}]^{(s_.)}, x\_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q]^r)^s/b), x] + (\text{Simp}[q*r*s*((b*c - a*d)/b) \text{Int}[\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q]^r]^s, x] - \text{Simp}[r*s*(p + q) \text{Int}[\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q]^r]^s, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, p, q, r, s\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[p + q, 0] \&\& \text{IGtQ}[s, 0] \&\& \text{LtQ}[s, 4]$

2980.  $\text{Int}[\text{Log}[(e_{\cdot}) * ((f_{\cdot}) * ((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(p_{\cdot}) * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})^{(r_{\cdot})}) / ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Log}[g + h*x] * (\text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r / h), x] + (-\text{Simp}[b*p*(r/h) \text{Int}[\text{Log}[g + h*x] / (a + b*x), x], x] - \text{Simp}[d*q*(r/h) \text{Int}[\text{Log}[g + h*x] / (c + d*x), x], x]) / ; \text{FreeQ}[\{a, b, c, d, e, f, g, h, p, q, r\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
2981.  $\text{Int}[\text{Log}[(e_{\cdot}) * ((f_{\cdot}) * ((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(p_{\cdot}) * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})^{(r_{\cdot})}) * ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))^{(m_{\cdot})}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(g + h*x)^{(m + 1)} * (\text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r / (h * (m + 1))), x] + (-\text{Simp}[b*p*(r / (h * (m + 1))) \text{Int}[(g + h*x)^{(m + 1)} / (a + b*x), x], x] - \text{Simp}[d*q*(r / (h * (m + 1))) \text{Int}[(g + h*x)^{(m + 1)} / (c + d*x), x], x]) / ; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, p, q, r\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[m, -1]$
2982.  $\text{Int}[\text{Log}[(e_{\cdot}) * ((f_{\cdot}) * ((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(p_{\cdot}) * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})^{(r_{\cdot})})^2 / ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))], x_{\text{Symbol}}] \rightarrow \text{Int}[(\text{Log}[(a + b*x)^{(p*r)}] + \text{Log}[(c + d*x)^{(q*r)}])^2 / (g + h*x), x] + \text{Simp}[(\text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r - \text{Log}[(a + b*x)^{(p*r)}] - \text{Log}[(c + d*x)^{(q*r)}]) * (2 \text{Int}[\text{Log}[(c + d*x)^{(q*r)}] / (g + h*x), x] + \text{Int}[(\text{Log}[(a + b*x)^{(p*r)}] - \text{Log}[(c + d*x)^{(q*r)}] + \text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r) / (g + h*x), x]), x] / ; \text{FreeQ}[\{a, b, c, d, e, f, g, h, p, q, r\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[b*g - a*h, 0]$
2983.  $\text{Int}[\text{Log}[(e_{\cdot}) * ((f_{\cdot}) * ((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(p_{\cdot}) * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})^{(r_{\cdot})})^2 / ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Log}[g + h*x] * (\text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r)^2 / h), x] + (-\text{Simp}[2*b*p*(r/h) \text{Int}[\text{Log}[g + h*x] * (\text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r) / (a + b*x), x], x] - \text{Simp}[2*d*q*(r/h) \text{Int}[\text{Log}[g + h*x] * (\text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r) / (c + d*x), x], x]) / ; \text{FreeQ}[\{a, b, c, d, e, f, g, h, p, q, r\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
2984.  $\text{Int}[\text{Log}[(e_{\cdot}) * ((f_{\cdot}) * ((a_{\cdot}) + (b_{\cdot}) * (x_{\cdot}))^{(p_{\cdot}) * ((c_{\cdot}) + (d_{\cdot}) * (x_{\cdot}))^{(q_{\cdot})})^{(r_{\cdot})})^{(s_{\cdot})} * ((g_{\cdot}) + (h_{\cdot}) * (x_{\cdot}))^{(m_{\cdot})}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(g + h*x)^{(m + 1)} * (\text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r]^s / (h * (m + 1))), x] + (-\text{Simp}[b*p*r*(s / (h * (m + 1))) \text{Int}[(g + h*x)^{(m + 1)} * (\text{Log}[e * (f * (a + b*x)^p * (c + d*x)^q]^r) / (a + b*x), x], x]) / ; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, p, q, r, s\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$

- $$*x)^p*(c + d*x)^q)^r)^{(s - 1)/(a + b*x)}, x], x] - \text{Simp}[d*q*r*(s/(h*(m + 1))) \text{Int}[(g + h*x)^{(m + 1)}*(\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q)^r])^{(s - 1)/(c + d*x)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, p, q, r, s\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IGtQ}[s, 0] \&\& \text{NeQ}[m, -1]$$
2985. 
$$\text{Int}[(\text{Log}[(e_.)*((f_.)*((a_.) + (b_.)*(x_))^{(p_.)*((c_.) + (d_.)*(x_))^{(q_.))^{(r_.)}}]*((s_.) + \text{Log}[(i_.)*((g_.) + (h_.)*(x_))^{(n_.)}]*(t_.))^{(m_.)}]) / ((j_.) + (k_.)*(x_)), x\_Symbol] :> \text{Simp}[(s + t*\text{Log}[i*(g + h*x)^n])^{(m + 1)}*(\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q)^r] / (k*n*t*(m + 1))), x] + (-\text{Simp}[b*p*(r/(k*n*t*(m + 1))) \text{Int}[(s + t*\text{Log}[i*(g + h*x)^n])^{(m + 1)} / (a + b*x), x], x] - \text{Simp}[d*q*(r/(k*n*t*(m + 1))) \text{Int}[(s + t*\text{Log}[i*(g + h*x)^n])^{(m + 1)} / (c + d*x), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, i, j, k, s, t, m, n, p, q, r\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[h*j - g*k, 0] \&\& \text{IGtQ}[m, 0]$$
2986. 
$$\text{Int}[(\text{Log}[(e_.)*((f_.)*((a_.) + (b_.)*(x_))^{(p_.)*((c_.) + (d_.)*(x_))^{(q_.))^{(r_.)}}]*((s_.) + \text{Log}[(i_.)*((g_.) + (h_.)*(x_))^{(n_.)}]*(t_.)) / ((j_.) + (k_.)*(x_)), x\_Symbol] :> \text{Simp}[(\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q)^r] - \text{Log}[(a + b*x)^{(p*r)}] - \text{Log}[(c + d*x)^{(q*r)}]) \text{Int}[(s + t*\text{Log}[i*(g + h*x)^n]) / (j + k*x), x], x] + (\text{Int}[(\text{Log}[(a + b*x)^{(p*r)}] * (s + t*\text{Log}[i*(g + h*x)^n])) / (j + k*x), x] + \text{Int}[(\text{Log}[(c + d*x)^{(q*r)}] * (s + t*\text{Log}[i*(g + h*x)^n])) / (j + k*x), x]) /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, i, j, k, s, t, n, p, q, r\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$$
2987. 
$$\text{Int}[(\text{Log}[(e_.)*((f_.)*((a_.) + (b_.)*(x_))^{(p_.)*((c_.) + (d_.)*(x_))^{(q_.))^{(r_.)}}]^{(u_.)*((s_.) + \text{Log}[(i_.)*((g_.) + (h_.)*(x_))^{(n_.)}]*(t_.))^{(m_.)}]) / ((j_.) + (k_.)*(x_)), x\_Symbol] :> \text{Unintegrable}[(\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q)^r]^{u*(s + t*\text{Log}[i*(g + h*x)^n])^m} / (j + k*x), x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, i, j, k, s, t, m, n, p, q, r, u\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$$
2988. 
$$\text{Int}[\text{Log}[v_*] * \text{Log}[(e_.)*((f_.)*((a_.) + (b_.)*(x_))^{(p_.)*((c_.) + (d_.)*(x_))^{(q_.))^{(r_.)}}]^{(s_.)*u_}, x\_Symbol] :> \text{With}[\{g = \text{Simplify}[(v - 1)*((c + d*x)/(a + b*x))], h = \text{Simplify}[u*(a + b*x)*(c + d*x)]\}, \text{Simp}[( -h)*\text{PolyLog}[2, 1 - v]*(\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q)^r]^{s/(b*c - a*d)}, x] + \text{Simp}[h*p*r*s \text{Int}[\text{PolyLog}[2, 1 - v]*(\text{Log}[e*(f*(a + b*x)^p*(c + d*x)^q)^r]^{(s - 1)} / ((a + b*x)*(c + d*x))], x], x] /; \text{FreeQ}[\{g, h$$

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}, x]] /; FreeQ[{a, b, c, d, e, f, p, q, r, s}, x] && NeQ[b*c - a*d, 0]
] && IGtQ[s, 0] && EqQ[p + q, 0]

2989. Int[Log[(e_.)*((f_.)*((a_.) + (b_.)*(x_))^(p_.)*((c_.) + (d_.)*(x_))^(q_.))^(r_.)]^(s_.)*Log[(i_.)*((j_.)*((g_.) + (h_.)*(x_))^(t_.))^(u_.)]
*(v_), x_Symbol] := With[{k = Simplify[v*(a + b*x)*(c + d*x)]}, Simp[k
*Log[i*(j*(g + h*x)^t)^u*(Log[e*(f*(a + b*x)^p*(c + d*x)^q]^r)^(s + 1)
)/(p*r*(s + 1)*(b*c - a*d))], x] - Simp[k*h*t*(u/(p*r*(s + 1)*(b*c - a
*d)) Int[Log[e*(f*(a + b*x)^p*(c + d*x)^q]^r]^(s + 1)/(g + h*x), x]
, x] /; FreeQ[k, x]] /; FreeQ[{a, b, c, d, e, f, g, h, i, j, p, q, r,
s, t, u}, x] && NeQ[b*c - a*d, 0] && EqQ[p + q, 0] && NeQ[s, -1]

2990. Int[Log[(e_.)*((f_.)*((a_.) + (b_.)*(x_))^(p_.)*((c_.) + (d_.)*(x_))^(q_.))^(r_.)]^(s_.)*(u_)*PolyLog[n_, v_], x_Symbol] := With[{g = Simplify[v*((c + d*x)/(a + b*x))], h = Simplify[u*(a + b*x)*(c + d*x)]}, Simp[h*PolyLog[n + 1, v]*(Log[e*(f*(a + b*x)^p*(c + d*x)^q]^r)^s/(b*c - a*d), x] - Simp[h*p*r*s Int[PolyLog[n + 1, v]*(Log[e*(f*(a + b*x)^p*(c + d*x)^q]^r)^(s - 1)/((a + b*x)*(c + d*x))], x], x] /; FreeQ[{g, h}, x] /; FreeQ[{a, b, c, d, e, f, n, p, q, r, s}, x] && NeQ[b*c - a*d, 0] && IGtQ[s, 0] && EqQ[p + q, 0]

2991. Int[((a_.) + Log[((c_.)*Sqrt[(d_.) + (e_.)*(x_)])/Sqrt[(f_.) + (g_.)*(x_)])*(b_.))^(n_.)/((A_.) + (B_.)*(x_) + (C_.)*(x_)^2), x_Symbol] := Simp[2*e*(g/(C*(e*f - d*g))) Subst[Int[(a + b*Log[c*x])^n/x, x], x, Sqrt[d + e*x]/Sqrt[f + g*x]], x] /; FreeQ[{a, b, c, d, e, f, g, A, B, C, n}, x] && EqQ[C*d*f - A*e*g, 0] && EqQ[B*e*g - C*(e*f + d*g), 0]

2992. Int[((a_.) + Log[((c_.)*Sqrt[(d_.) + (e_.)*(x_)])/Sqrt[(f_.) + (g_.)*(x_)])*(b_.))^(n_.)/((A_.) + (C_.)*(x_)^2), x_Symbol] := Simp[g/(C*f) Subst[Int[(a + b*Log[c*x])^n/x, x], x, Sqrt[d + e*x]/Sqrt[f + g*x]], x] /; FreeQ[{a, b, c, d, e, f, g, A, C, n}, x] && EqQ[C*d*f - A*e*g, 0] && EqQ[e*f + d*g, 0]

2993. Int[Log[(e_.)*((f_.)*((a_.) + (b_.)*(x_))^(p_.)*((c_.) + (d_.)*(x_))^(q_.))^(r_.)]*(RFx_.), x_Symbol] := Simp[p*r Int[RFx*Log[a + b*x], x], x] + (Simp[q*r Int[RFx*Log[c + d*x], x], x] - Simp[(p*r*Log[a + b*x] + q*r*Log[c + d*x] - Log[e*(f*(a + b*x)^p*(c + d*x)^q]^r]) Int[RF

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x, x], x]) /; FreeQ[{a, b, c, d, e, f, p, q, r}, x] && RationalFunctionQ[RFx, x] && NeQ[b*c - a*d, 0] && !MatchQ[RFx, (u_)*(a + b*x)^(m_)*(c + d*x)^(n_)] /; IntegersQ[m, n]]

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2994. `Int[Log[(e_)*((f_)*((a_) + (b_)*(x_))^(p_))*((c_) + (d_)*(x_))^(q_)]^(r_)]^(s_)*(RFx_), x_Symbol] := With[{u = ExpandIntegrand[Log[e*(f*(a + b*x)^p*(c + d*x)^q]^r]^s, RFx, x]}, Int[u, x] /; SumQ[u] /; FreeQ[{a, b, c, d, e, f, p, q, r, s}, x] && RationalFunctionQ[RFx, x] && IGtQ[s, 0]`
2995. `Int[Log[(e_)*((f_)*((a_) + (b_)*(x_))^(p_))*((c_) + (d_)*(x_))^(q_)]^(r_)]^(s_)*(RFx_), x_Symbol] := Unintegrable[RFx*Log[e*(f*(a + b*x)^p*(c + d*x)^q]^r]^s, x] /; FreeQ[{a, b, c, d, e, f, p, q, r, s}, x] && RationalFunctionQ[RFx, x]`
2996. `Int[Log[(e_)*((f_)*(v_)^(p_)*(w_)^(q_))]^(r_)]^(s_)*(u_), x_Symbol] := Int[u*Log[e*(f*ExpandToSum[v, x]^p*ExpandToSum[w, x]^q)^r]^s, x] /; FreeQ[{e, f, p, q, r, s}, x] && LinearQ[{v, w}, x] && !LinearMatchQ[{v, w}, x] && AlgebraicFunctionQ[u, x]`
2997. `Int[Log[(e_)*((f_)*((g_) + (v_)/(w_)))^(r_)]^(s_)*(u_), x_Symbol] := Int[u*Log[e*(f*(ExpandToSum[v + g*w, x]/ExpandToSum[w, x]))^r]^s, x] /; FreeQ[{e, f, g, r, s}, x] && LinearQ[w, x] && (FreeQ[v, x] || LinearQ[v, x]) && AlgebraicFunctionQ[u, x]`
2998. `Int[Log[v_]*(u_), x_Symbol] := With[{w = DerivativeDivides[v, u*(1 - v), x]}, Simp[w*PolyLog[2, 1 - v], x] /; !FalseQ[w]]`
2999. `Int[Log[v_]*((a_) + Log[u_]*(b_))*(w_), x_Symbol] := With[{z = DerivativeDivides[v, w*(1 - v), x]}, Simp[z*(a + b*Log[u])*PolyLog[2, 1 - v], x] - Simp[b Int[SimplifyIntegrand[z*PolyLog[2, 1 - v]*(D[u, x]/u), x], x], x] /; !FalseQ[z]] /; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x]`
3000. `Int[Log[Log[(d_)*(x_)^n_)]^(p_)*(c_)], x_Symbol] := Simp[x*Log[c*Log[d*x^n]^p], x] - Simp[n*p Int[1/Log[d*x^n], x], x] /; FreeQ[{c, d`



- , n, p}, x]
3001.  $\text{Int}[\frac{(a + \text{Log}[\text{Log}[(d \cdot x^n)^{p \cdot c} \cdot b])}{x}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Log}[d \cdot x^n] \cdot (a + b \cdot \text{Log}[c \cdot \text{Log}[d \cdot x^n]^p]) / n, x] - \text{Simp}[b \cdot p \cdot \text{Log}[x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x]$
3002.  $\text{Int}[\frac{(a + \text{Log}[\text{Log}[(d \cdot x^n)^{p \cdot c} \cdot b]) \cdot (e \cdot x)^m}{(e \cdot (m + 1))}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e \cdot x)^{m+1} \cdot (a + b \cdot \text{Log}[c \cdot \text{Log}[d \cdot x^n]^p]) / (e \cdot (m + 1)), x] - \text{Simp}[b \cdot n \cdot (p / (m + 1)) \text{Int}[(e \cdot x)^m / \text{Log}[d \cdot x^n], x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{NeQ}[m, -1]$
3003.  $\text{Int}[\frac{(a + \text{Log}[(c \cdot \text{RFX})^{p \cdot b}] \cdot (b \cdot x)^n}{(d + e \cdot x)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot (a + b \cdot \text{Log}[c \cdot \text{RFX}^p])^n, x] - \text{Simp}[b \cdot n \cdot p \text{Int}[\text{SimplifyIntegrand}[x \cdot (a + b \cdot \text{Log}[c \cdot \text{RFX}^p])^{n-1} \cdot (D[\text{RFX}, x] / \text{RFX}), x], x], x] /; \text{FreeQ}\{a, b, c, p\}, x] \&\& \text{RationalFunctionQ}[\text{RFX}, x] \&\& \text{IGtQ}[n, 0]$
3004.  $\text{Int}[\frac{(a + \text{Log}[(c \cdot \text{RFX})^{p \cdot b}] \cdot (b \cdot x)^n}{(d + e \cdot x)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Log}[d + e \cdot x] \cdot (a + b \cdot \text{Log}[c \cdot \text{RFX}^p])^n / e, x] - \text{Simp}[b \cdot n \cdot (p / e) \text{Int}[\text{Log}[d + e \cdot x] \cdot (a + b \cdot \text{Log}[c \cdot \text{RFX}^p])^{n-1} \cdot (D[\text{RFX}, x] / \text{RFX}), x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x] \&\& \text{RationalFunctionQ}[\text{RFX}, x] \&\& \text{IGtQ}[n, 0]$
3005.  $\text{Int}[\frac{(a + \text{Log}[(c \cdot \text{RFX})^{p \cdot b}] \cdot (b \cdot x)^n \cdot (d + e \cdot x)^m}{(d + e \cdot x)^{m+1}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e \cdot x)^{m+1} \cdot (a + b \cdot \text{Log}[c \cdot \text{RFX}^p])^n / (e \cdot (m + 1)), x] - \text{Simp}[b \cdot n \cdot (p / (e \cdot (m + 1))) \text{Int}[\text{SimplifyIntegrand}[(d + e \cdot x)^{m+1} \cdot (a + b \cdot \text{Log}[c \cdot \text{RFX}^p])^{n-1} \cdot (D[\text{RFX}, x] / \text{RFX}), x], x], x] /; \text{FreeQ}\{a, b, c, d, e, m, p\}, x] \&\& \text{RationalFunctionQ}[\text{RFX}, x] \&\& \text{IGtQ}[n, 0] \&\& (\text{EqQ}[n, 1] \parallel \text{IntegerQ}[m]) \&\& \text{NeQ}[m, -1]$
3006.  $\text{Int}[\frac{\text{Log}[(c \cdot \text{RFX})^{p \cdot b}]}{(d + e \cdot x)^2}, x_{\text{Symbol}}] \rightarrow \text{With}\{u = \text{IntHide}[1 / (d + e \cdot x^2), x]\}, \text{Simp}[u \cdot \text{Log}[c \cdot \text{RFX}^p], x] - \text{Simp}[n \text{Int}[\text{SimplifyIntegrand}[u \cdot (D[\text{RFX}, x] / \text{RFX}), x], x], x] /; \text{FreeQ}\{c, d, e, n\}, x] \&\& \text{RationalFunctionQ}[\text{RFX}, x] \&\& \text{!PolynomialQ}[\text{RFX}, x]$
3007.  $\text{Int}[\frac{\text{Log}[(c \cdot \text{Px})^{p \cdot b}]}{(\text{Qx})}, x_{\text{Symbol}}] \rightarrow \text{With}\{u = \text{IntHide}[1 / \text{Qx}, x]\}, \text{Simp}[u \cdot \text{Log}[c \cdot \text{Px}^p], x] - \text{Simp}[n \text{Int}[\text{SimplifyIntegrand}[u \cdot (D[\text{Px},$

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x]/Px), x], x], x]] /; FreeQ[{c, n}, x] && QuadraticQ[{Qx, Px}, x] &&
EqQ[D[Px/Qx, x], 0]

3008. Int[((a_.) + Log[(c_.)*(Rfx_)^(p_.)]*(b_.))^(n_.)*(RGx_), x_Symbol] :=
  With[{u = ExpandIntegrand[(a + b*Log[c*Rfx^p])^n, RGx, x]}, Int[u, x]
  /; SumQ[u]] /; FreeQ[{a, b, c, p}, x] && RationalFunctionQ[Rfx, x] &&
  RationalFunctionQ[RGx, x] && IGtQ[n, 0]

3009. Int[((a_.) + Log[(c_.)*(Rfx_)^(p_.)]*(b_.))^(n_.)*(RGx_), x_Symbol] :=
  With[{u = ExpandIntegrand[RGx*(a + b*Log[c*Rfx^p])^n, x]}, Int[u, x]
  /; SumQ[u]] /; FreeQ[{a, b, c, p}, x] && RationalFunctionQ[Rfx, x] &&
  RationalFunctionQ[RGx, x] && IGtQ[n, 0]

3010. Int[((a_.) + Log[u_]*(b_.))*(Rfx_), x_Symbol] := With[{lst = SubstForF
  ractionalPowerOfLinear[Rfx*(a + b*Log[u]), x]}, Simp[lst[[2]]*lst[[4]]
  Subst[Int[lst[[1]], x], x, lst[[3]]^(1/lst[[2])], x] /; !FalseQ[l
  st]] /; FreeQ[{a, b}, x] && RationalFunctionQ[Rfx, x]

3011. Int[Log[1 + (e_.)*((F_)^((c_.)*((a_.) + (b_.)*(x_))))^(n_.)]*((f_.) +
  (g_.)*(x_))^(m_.), x_Symbol] := Simp[(-f + g*x)^m*(PolyLog[2, (-e)*(
  F^(c*(a + b*x)))^n]/(b*c*n*Log[F])), x] + Simp[g*(m/(b*c*n*Log[F]))
  Int[(f + g*x)^(m - 1)*PolyLog[2, (-e)*(F^(c*(a + b*x)))^n], x], x] /;
  FreeQ[{F, a, b, c, e, f, g, n}, x] && GtQ[m, 0]

3012. Int[Log[(d_) + (e_.)*((F_)^((c_.)*((a_.) + (b_.)*(x_))))^(n_.)]*((f_.)
  + (g_.)*(x_))^(m_.), x_Symbol] := Simp[(f + g*x)^(m + 1)*(Log[d + e*(
  F^(c*(a + b*x)))^n]/(g*(m + 1))), x] + (Int[(f + g*x)^m*Log[1 + (e/d)*
  (F^(c*(a + b*x)))^n], x] - Simp[(f + g*x)^(m + 1)*(Log[1 + (e/d)*(F^(c
  *(a + b*x)))^n]/(g*(m + 1))), x]) /; FreeQ[{F, a, b, c, d, e, f, g, n}
  , x] && GtQ[m, 0] && NeQ[d, 1]

3013. Int[Log[(d_.) + (e_.)*(x_) + (f_.)*Sqrt[(a_.) + (b_.)*(x_) + (c_.)*(x_
  )^2]], x_Symbol] := Simp[x*Log[d + e*x + f*Sqrt[a + b*x + c*x^2]], x]
  + Simp[f^2*((b^2 - 4*a*c)/2) Int[x/((2*d*e - b*f^2)*(a + b*x + c*x^2
  ) - f*(b*d - 2*a*e + (2*c*d - b*e)*x)*Sqrt[a + b*x + c*x^2]), x], x] /
  ; FreeQ[{a, b, c, d, e, f}, x] && EqQ[e^2 - c*f^2, 0]

```

3014. `Int[Log[(d_.) + (e_.)*(x_) + (f_.)*Sqrt[(a_.) + (c_.)*(x_)^2]], x_Symbol] := Simp[x*Log[d + e*x + f*Sqrt[a + c*x^2]], x] - Simp[a*c*f^2 Int[x/(d*e*(a + c*x^2) + f*(a*e - c*d*x)*Sqrt[a + c*x^2]), x], x] /; FreeQ[{a, c, d, e, f}, x] && EqQ[e^2 - c*f^2, 0]`
3015. `Int[Log[(d_.) + (e_.)*(x_) + (f_.)*Sqrt[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]]*((g_.)*(x_))^(m_.), x_Symbol] := Simp[(g*x)^(m + 1)*(Log[d + e*x + f*Sqrt[a + b*x + c*x^2]]/(g*(m + 1))), x] + Simp[f^2*((b^2 - 4*a*c)/(2*g*(m + 1))) Int[(g*x)^(m + 1)/((2*d*e - b*f^2)*(a + b*x + c*x^2) - f*(b*d - 2*a*e + (2*c*d - b*e)*x)*Sqrt[a + b*x + c*x^2]), x], x] /; FreeQ[{a, b, c, d, e, f, g, m}, x] && EqQ[e^2 - c*f^2, 0] && NeQ[m, -1] && IntegerQ[2*m]`
3016. `Int[Log[(d_.) + (e_.)*(x_) + (f_.)*Sqrt[(a_.) + (c_.)*(x_)^2]]*((g_.)*(x_))^(m_.), x_Symbol] := Simp[(g*x)^(m + 1)*(Log[d + e*x + f*Sqrt[a + c*x^2]]/(g*(m + 1))), x] - Simp[a*c*(f^2/(g*(m + 1))) Int[(g*x)^(m + 1)/(d*e*(a + c*x^2) + f*(a*e - c*d*x)*Sqrt[a + c*x^2]), x], x] /; FreeQ[{a, c, d, e, f, g, m}, x] && EqQ[e^2 - c*f^2, 0] && NeQ[m, -1] && IntegerQ[2*m]`
3017. `Int[Log[(d_.) + (f_.)*Sqrt[u_] + (e_.)*(x_)]*(v_.), x_Symbol] := Int[v*Log[d + e*x + f*Sqrt[ExpandToSum[u, x]]], x] /; FreeQ[{d, e, f}, x] && QuadraticQ[u, x] && !QuadraticMatchQ[u, x] && (EqQ[v, 1] || MatchQ[v, ((g_.)*x)^(m_.)] /; FreeQ[{g, m}, x])`
3018. `Int[Log[(c_.)*(x_)^(n_.)]^(r_.)/((x_)*(Log[(c_.)*(x_)^(n_.)]^(q_.)*(b_.) + (a_.)*(x_)^(m_.))), x_Symbol] := Simp[Log[a*x^m + b*Log[c*x^n]^q]/(b*n*q), x] - Simp[a*(m/(b*n*q)) Int[x^(m - 1)/(a*x^m + b*Log[c*x^n]^q), x], x] /; FreeQ[{a, b, c, m, n, q, r}, x] && EqQ[r, q - 1]`
3019. `Int[(Log[(c_.)*(x_)^(n_.)]^(r_.)*(Log[(c_.)*(x_)^(n_.)]^(q_.)*(b_.) + (a_.)*(x_)^(m_.))^(p_.))/(x_), x_Symbol] := Int[ExpandIntegrand[Log[c*x^n]^r/x, (a*x^m + b*Log[c*x^n]^q)^p, x], x] /; FreeQ[{a, b, c, m, n, p, q, r}, x] && EqQ[r, q - 1] && IGtQ[p, 0]`
3020. `Int[(Log[(c_.)*(x_)^(n_.)]^(r_.)*(Log[(c_.)*(x_)^(n_.)]^(q_.)*(b_.) + (a_.)*(x_)^(m_.))^(p_.))/(x_), x_Symbol] := Simp[(a*x^m + b*Log[c*x^n]^`

- $q)^{(p+1)/(b*n*q*(p+1))}, x] - \text{Simp}[a*(m/(b*n*q)) \text{ Int}[x^{(m-1)}*(a*x^m + b*\text{Log}[c*x^n]^q)^p, x], x] /; \text{FreeQ}\{a, b, c, m, n, p, q, r\}, x] \&\& \text{EqQ}[r, q-1] \&\& \text{NeQ}[p, -1]$
3021. $\text{Int}[(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(r_*)}*(e_*) + (d_*)(x_*)^{(m_*)})/((x_*)(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(q_*)}*(b_*) + (a_*)(x_*)^{(m_*)}))], x_Symbol] \rightarrow \text{Simp}[e*(\text{Log}[a*x^m + b*\text{Log}[c*x^n]^q]/(b*n*q)), x] /; \text{FreeQ}\{a, b, c, d, e, m, n, q, r\}, x] \&\& \text{EqQ}[r, q-1] \&\& \text{EqQ}[a*e*m - b*d*n*q, 0]$
3022. $\text{Int}[(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(r_*)}*(e_*) + (u_*) + (d_*)(x_*)^{(m_*)})/((x_*)(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(q_*)}*(b_*) + (a_*)(x_*)^{(m_*)}))], x_Symbol] \rightarrow \text{Simp}[e*(\text{Log}[a*x^m + b*\text{Log}[c*x^n]^q]/(b*n*q)), x] + \text{Int}[u/(x*(a*x^m + b*\text{Log}[c*x^n]^q)), x] /; \text{FreeQ}\{a, b, c, d, e, m, n, q, r\}, x] \&\& \text{EqQ}[r, q-1] \&\& \text{EqQ}[a*e*m - b*d*n*q, 0]$
3023. $\text{Int}[(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(r_*)}*(e_*) + (d_*)(x_*)^{(m_*)})/((x_*)(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(q_*)}*(b_*) + (a_*)(x_*)^{(m_*)}))], x_Symbol] \rightarrow \text{Simp}[e*(\text{Log}[a*x^m + b*\text{Log}[c*x^n]^q]/(b*n*q)), x] - \text{Simp}[(a*e*m - b*d*n*q)/(b*n*q) \text{ Int}[x^{(m-1)}/(a*x^m + b*\text{Log}[c*x^n]^q), x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, q, r\}, x] \&\& \text{EqQ}[r, q-1] \&\& \text{NeQ}[a*e*m - b*d*n*q, 0]$
3024. $\text{Int}[(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(q_*)}*(b_*) + (a_*)(x_*)^{(m_*)})^{(p_*)}*(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(r_*)}*(e_*) + (d_*)(x_*)^{(m_*)})]/(x_*)], x_Symbol] \rightarrow \text{Simp}[e*((a*x^m + b*\text{Log}[c*x^n]^q)^{(p+1)}/(b*n*q*(p+1))), x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p, q, r\}, x] \&\& \text{EqQ}[r, q-1] \&\& \text{NeQ}[p, -1] \&\& \text{EqQ}[a*e*m - b*d*n*q, 0]$
3025. $\text{Int}[(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(q_*)}*(b_*) + (a_*)(x_*)^{(m_*)})^{(p_*)}*(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(r_*)}*(e_*) + (d_*)(x_*)^{(m_*)})]/(x_*)], x_Symbol] \rightarrow \text{Simp}[e*((a*x^m + b*\text{Log}[c*x^n]^q)^{(p+1)}/(b*n*q*(p+1))), x] - \text{Simp}[(a*e*m - b*d*n*q)/(b*n*q) \text{ Int}[x^{(m-1)}*(a*x^m + b*\text{Log}[c*x^n]^q)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p, q, r\}, x] \&\& \text{EqQ}[r, q-1] \&\& \text{NeQ}[p, -1] \&\& \text{NeQ}[a*e*m - b*d*n*q, 0]$
3026. $\text{Int}[(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(q_*)}*(f_*) + (d_*)(x_*)^{(m_*)} + \text{Log}[(c_*)(x_*)^{(n_*)}]*(e_*)(x_*)^{(m_*)})/((x_*)(\text{Log}[(c_*)(x_*)^{(n_*)}]^{(q_*)}*(b_*) + (a_*)(x_*)^{(m_*)})^2)], x_Symbol] \rightarrow \text{Simp}[d*(\text{Log}[c*x^n]/(a*n*(a*x^m +$

- $b \cdot \text{Log}[c \cdot x^n]^q$), x] /; FreeQ[{a, b, c, d, e, f, m, n, q}, x] && EqQ[e * n + d * m, 0] && EqQ[a * f + b * d * (q - 1), 0]
3027. Int[(Log[(c_.)*(x_)^(n_.)]*(e_.) + (d_.))/(Log[(c_.)*(x_)^(n_.)]^(q_.)*(b_.) + (a_.)*(x_)^2, x_Symbol] :> Simp[(-e)*(Log[c*x^n]/(a*(a*x + b*Log[c*x^n]^q))), x] + Simp[(d + e*n)/a Int[1/(x*(a*x + b*Log[c*x^n]^q)), x], x] /; FreeQ[{a, b, c, d, e, n, q}, x] && EqQ[d + e*n*q, 0]
3028. Int[Log[u_], x_Symbol] :> Simp[x*Log[u], x] - Int[SimplifyIntegrand[x*(D[u, x]/u), x], x] /; InverseFunctionFreeQ[u, x]
3029. Int[Log[u_], x_Symbol] :> Simp[x*Log[u], x] - Int[SimplifyIntegrand[x*Simplify[D[u, x]/u], x], x] /; ProductQ[u]
3030. Int[Log[u_] / ((a_.) + (b_.)*(x_)), x_Symbol] :> Simp[Log[a + b*x]*(Log[u]/b), x] - Simp[1/b Int[SimplifyIntegrand[Log[a + b*x]*(D[u, x]/u), x], x], x] /; FreeQ[{a, b}, x] && RationalFunctionQ[D[u, x]/u, x] && (NeQ[a, 0] || !(BinomialQ[u, x] && EqQ[BinomialDegree[u, x]^2, 1]))
3031. Int[Log[u_] * ((a_.) + (b_.)*(x_))^(m_.), x_Symbol] :> Simp[(a + b*x)^(m + 1) * (Log[u] / (b*(m + 1))), x] - Simp[1 / (b*(m + 1)) Int[SimplifyIntegrand[(a + b*x)^(m + 1) * (D[u, x]/u), x], x], x] /; FreeQ[{a, b, m}, x] && InverseFunctionFreeQ[u, x] && NeQ[m, -1]
3032. Int[Log[u_] / (Qx_), x_Symbol] :> With[{v = IntHide[1/Qx, x]}, Simp[v*Log[u], x] - Int[SimplifyIntegrand[v*(D[u, x]/u), x], x] /; QuadraticQ[Qx, x] && InverseFunctionFreeQ[u, x]
3033. Int[Log[u_] * (u_)^((a_.)*(x_)), x_Symbol] :> Simp[u^(a*x)/a, x] - Int[SimplifyIntegrand[x*u^(a*x - 1)*D[u, x], x], x] /; FreeQ[a, x] && InverseFunctionFreeQ[u, x]
3034. Int[Log[u_] * (v_), x_Symbol] :> With[{w = IntHide[v, x]}, Simp[Log[u] * w, x] - Int[SimplifyIntegrand[w*(D[u, x]/u), x], x] /; InverseFunctionFreeQ[w, x] /; InverseFunctionFreeQ[u, x]

3035. `Int[Log[u_]*(v_), x_Symbol] := With[{w = IntHide[v, x]}, Simp[Log[u] w, x] - Int[SimplifyIntegrand[w*Simplify[D[u, x]/u], x], x] /; InverseFunctionFreeQ[w, x]] /; ProductQ[u]`
3036. `Int[Log[v_]*Log[w_], x_Symbol] := Simp[x*Log[v]*Log[w], x] + (-Int[SimplifyIntegrand[x*Log[w]*(D[v, x]/v), x], x] - Int[SimplifyIntegrand[x*Log[v]*(D[w, x]/w), x], x]) /; InverseFunctionFreeQ[v, x] && InverseFunctionFreeQ[w, x]`
3037. `Int[Log[v_]*Log[w_]*(u_), x_Symbol] := With[{z = IntHide[u, x]}, Simp[Log[v]*Log[w] z, x] + (-Int[SimplifyIntegrand[z*Log[w]*(D[v, x]/v), x], x] - Int[SimplifyIntegrand[z*Log[v]*(D[w, x]/w), x], x]) /; InverseFunctionFreeQ[z, x] /; InverseFunctionFreeQ[v, x] && InverseFunctionFreeQ[w, x]`
3038. `Int[(f_)^(Log[u_]*(a_.)), x_Symbol] := Int[u^(a*Log[f]), x] /; FreeQ[{a, f}, x]`
3039. `Int[u_, x_Symbol] := With[{lst = FunctionOfLog[Cancel[x*u], x]}, Simp[1/lst[[3]] Subst[Int[lst[[1]], x], x, Log[lst[[2]]]], x] /; !FalseQ[lst]] /; NonsumQ[u]`
3040. `Int[Log[Gamma[v_]]*(u_.), x_Symbol] := Simp[(Log[Gamma[v]] - LogGamma[v]) Int[u, x], x] + Int[u*LogGamma[v], x]`
3041. `Int[(u_.)*((a_.)*(x_)^(m_.) + Log[(c_.)*(x_)^(n_.)]^(q_.)*(b_.)*(x_)^(r_.))^p, x_Symbol] := Int[u*x^(p*r)*(a*x^(m - r) + b*Log[c*x^n]^q)^p, x] /; FreeQ[{a, b, c, m, n, p, q, r}, x] && IntegerQ[p]`
3042. `Int[u_, x_Symbol] := Int[DeactivateTrig[u, x], x] /; FunctionOfTrigOfLinearQ[u, x]`
3043. `Int[(cos[(e_.) + (f_.)*(x_)]*(b_.))^n]*((a_.)*sin[(e_.) + (f_.)*(x_)])^m, x_Symbol] := Simp[(a*SIN[e + f*x])^(m + 1)*((b*Cos[e + f*x])^(n + 1)/(a*b*f*(m + 1))), x] /; FreeQ[{a, b, e, f, m, n}, x] && EqQ[`

$m + n + 2, 0] \&\& \text{NeQ}[m, -1]$

3044. $\text{Int}[\cos[(e_.) + (f_.)(x_)]^{(n_.)} * ((a_.) * \sin[(e_.) + (f_.)(x_)]^{(m_.)})$, $x_Symbol]$ \rightarrow $\text{Simp}[1/(a*f) \text{ Subst}[\text{Int}[x^m * (1 - x^2/a^2)^{(n-1)/2}$, $x]$, x , $a*\text{Sin}[e + f*x]$], $x]$ /; $\text{FreeQ}[\{a, e, f, m\}, x]$ $\&\& \text{IntegerQ}[(n - 1)/2]$ $\&\& \text{!(IntegerQ}[(m - 1)/2]$ $\&\& \text{LtQ}[0, m, n])$

3045. $\text{Int}[(\cos[(e_.) + (f_.)(x_)] * (a_.))^{(m_.)} * \sin[(e_.) + (f_.)(x_)]^{(n_.)}$, $x_Symbol]$ \rightarrow $\text{Simp}[-(a*f)^{-1} \text{ Subst}[\text{Int}[x^m * (1 - x^2/a^2)^{(n-1)/2}$, $x]$, x , $a*\text{Cos}[e + f*x]$], $x]$ /; $\text{FreeQ}[\{a, e, f, m\}, x]$ $\&\& \text{IntegerQ}[(n - 1)/2]$ $\&\& \text{!(IntegerQ}[(m - 1)/2]$ $\&\& \text{GtQ}[m, 0]$ $\&\& \text{LeQ}[m, n])$

3046. $\text{Int}[(\cos[(e_.) + (f_.)(x_)] * (b_.))^{(n_.)} * ((a_.) * \sin[(e_.) + (f_.)(x_)]^{(m_.)})$, $x_Symbol]$ \rightarrow $\text{Simp}[(-a)*(a*\text{Sin}[e + f*x])^{(m-1)} * ((b*\text{Cos}[e + f*x])^{(n+1)} / (b*f*(n+1)))$, $x]$ + $\text{Simp}[a^2 * ((m-1) / (b^2 * (n+1))) \text{ Int}[(a*\text{Sin}[e + f*x])^{(m-2)} * (b*\text{Cos}[e + f*x])^{(n+2)}$, $x]$, $x]$ /; $\text{FreeQ}[\{a, b, e, f\}, x]$ $\&\& \text{GtQ}[m, 1]$ $\&\& \text{LtQ}[n, -1]$ $\&\& (\text{IntegersQ}[2*m, 2*n] \mid \mid \text{EqQ}[m + n, 0])$

3047. $\text{Int}[(\cos[(e_.) + (f_.)(x_)] * (a_.))^{(m_.)} * ((b_.) * \sin[(e_.) + (f_.)(x_)]^{(n_.)})$, $x_Symbol]$ \rightarrow $\text{Simp}[a * (a*\text{Cos}[e + f*x])^{(m-1)} * ((b*\text{Sin}[e + f*x])^{(n+1)} / (b*f*(n+1)))$, $x]$ + $\text{Simp}[a^2 * ((m-1) / (b^2 * (n+1))) \text{ Int}[(a*\text{Cos}[e + f*x])^{(m-2)} * (b*\text{Sin}[e + f*x])^{(n+2)}$, $x]$, $x]$ /; $\text{FreeQ}[\{a, b, e, f\}, x]$ $\&\& \text{GtQ}[m, 1]$ $\&\& \text{LtQ}[n, -1]$ $\&\& (\text{IntegersQ}[2*m, 2*n] \mid \mid \text{EqQ}[m + n, 0])$

3048. $\text{Int}[(\cos[(e_.) + (f_.)(x_)] * (b_.))^{(n_.)} * ((a_.) * \sin[(e_.) + (f_.)(x_)]^{(m_.)})$, $x_Symbol]$ \rightarrow $\text{Simp}[(-a) * (b*\text{Cos}[e + f*x])^{(n+1)} * ((a*\text{Sin}[e + f*x])^{(m-1)} / (b*f*(m+n)))$, $x]$ + $\text{Simp}[a^2 * ((m-1) / (m+n)) \text{ Int}[(b*\text{Cos}[e + f*x])^n * (a*\text{Sin}[e + f*x])^{(m-2)}$, $x]$, $x]$ /; $\text{FreeQ}[\{a, b, e, f, n\}, x]$ $\&\& \text{GtQ}[m, 1]$ $\&\& \text{NeQ}[m + n, 0]$ $\&\& \text{IntegersQ}[2*m, 2*n]$

3049. $\text{Int}[(\cos[(e_.) + (f_.)(x_)] * (a_.))^{(m_.)} * ((b_.) * \sin[(e_.) + (f_.)(x_)]^{(n_.)})$, $x_Symbol]$ \rightarrow $\text{Simp}[a * (b*\text{Sin}[e + f*x])^{(n+1)} * ((a*\text{Cos}[e + f*x])^{(m-1)} / (b*f*(m+n)))$, $x]$ + $\text{Simp}[a^2 * ((m-1) / (m+n)) \text{ Int}[(b*\text{Sin}[e + f*x])^n * (a*\text{Cos}[e + f*x])^{(m-2)}$, $x]$, $x]$ /; $\text{FreeQ}[\{a, b, e, f, n\}$

- , x] && GtQ[m, 1] && NeQ[m + n, 0] && IntegersQ[2*m, 2*n]
3050. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(b_.))^n*((a_.)*\sin[(e_.) + (f_.)(x_)])^m], x_Symbol] \rightarrow \text{Simp}[(b*\cos[e + f*x])^{n+1}*((a*\sin[e + f*x])^{m+1}/(a*b*f*(m+1))), x] + \text{Simp}[(m+n+2)/(a^2*(m+1)) \text{Int}[(b*\cos[e + f*x])^n*(a*\sin[e + f*x])^{m+2}], x], x] /; \text{FreeQ}\{a, b, e, f, n\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{IntegersQ}[2*m, 2*n]$
3051. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(a_.))^m*((b_.)*\sin[(e_.) + (f_.)(x_)])^n], x_Symbol] \rightarrow \text{Simp}[(-b*\sin[e + f*x])^{n+1}*((a*\cos[e + f*x])^{m+1}/(a*b*f*(m+1))), x] + \text{Simp}[(m+n+2)/(a^2*(m+1)) \text{Int}[(b*\sin[e + f*x])^n*(a*\cos[e + f*x])^{m+2}], x], x] /; \text{FreeQ}\{a, b, e, f, n\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{IntegersQ}[2*m, 2*n]$
3052. $\text{Int}[\text{Sqrt}[\cos[(e_.) + (f_.)(x_)]*(b_.)]*\text{Sqrt}[(a_.)*\sin[(e_.) + (f_.)(x_)]], x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[a*\sin[e + f*x]]*(\text{Sqrt}[b*\cos[e + f*x]]/\text{Sqrt}[\sin[2*e + 2*f*x]]) \text{Int}[\text{Sqrt}[\sin[2*e + 2*f*x]], x], x] /; \text{FreeQ}\{a, b, e, f\}, x]$
3053. $\text{Int}[1/(\text{Sqrt}[\cos[(e_.) + (f_.)(x_)]*(b_.)]*\text{Sqrt}[(a_.)*\sin[(e_.) + (f_.)(x_)]]), x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[\sin[2*e + 2*f*x]]/(\text{Sqrt}[a*\sin[e + f*x]]*\text{Sqrt}[b*\cos[e + f*x]]) \text{Int}[1/\text{Sqrt}[\sin[2*e + 2*f*x]], x], x] /; \text{FreeQ}\{a, b, e, f\}, x]$
3054. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(b_.))^n*((a_.)*\sin[(e_.) + (f_.)(x_)])^m], x_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k*a*(b/f) \text{Subst}[\text{Int}[x^{k*(m+1)} - 1]/(a^2 + b^2*x^{2*k}), x], x, (a*\sin[e + f*x])^{1/k}/(b*\cos[e + f*x])^{1/k}], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{EqQ}[m + n, 0] \&\& \text{GtQ}[m, 0] \&\& \text{LtQ}[m, 1]$
3055. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(a_.))^m*((b_.)*\sin[(e_.) + (f_.)(x_)])^n], x_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[(-k)*a*(b/f) \text{Subst}[\text{Int}[x^{k*(m+1)} - 1]/(a^2 + b^2*x^{2*k}), x], x, (a*\cos[e + f*x])^{1/k}/(b*\sin[e + f*x])^{1/k}], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{EqQ}[m + n, 0] \&\& \text{GtQ}[m, 0] \&\& \text{LtQ}[m, 1]$

3056. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(a_.))^m*((b_.)*\sin[(e_.) + (f_.)(x_)])^n, x_Symbol] \rightarrow \text{Simp}[(-b^{(2*\text{IntPart}[(n - 1)/2] + 1)}*(b*\sin[e + f*x])^{(2*\text{FracPart}[(n - 1)/2]}*((a*\cos[e + f*x])^{m + 1}/(a*f^{m + 1}*(\sin[e + f*x]^2)^{\text{FracPart}[(n - 1)/2]})))*\text{Hypergeometric2F1}[(1 + m)/2, (1 - n)/2, (3 + m)/2, \cos[e + f*x]^2], x] /; \text{FreeQ}\{a, b, e, f, m, n\}, x] \&\& \text{SimplerQ}[n, m]$
3057. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(b_.))^n*((a_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[b^{(2*\text{IntPart}[(n - 1)/2] + 1)}*(b*\cos[e + f*x])^{(2*\text{FracPart}[(n - 1)/2]}*((a*\sin[e + f*x])^{m + 1}/(a*f^{m + 1}*(\cos[e + f*x]^2)^{\text{FracPart}[(n - 1)/2]})))*\text{Hypergeometric2F1}[(1 + m)/2, (1 - n)/2, (3 + m)/2, \sin[e + f*x]^2], x] /; \text{FreeQ}\{a, b, e, f, m, n\}, x]$
3058. $\text{Int}[(b_.)*\sec[(e_.) + (f_.)(x_)]^n*((a_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[b*(a*\sin[e + f*x])^{m + 1}*((b*\sec[e + f*x])^{n - 1}/(a*f^{m + 1}))], x] /; \text{FreeQ}\{a, b, e, f, m, n\}, x] \&\& \text{EqQ}[m - n + 2, 0] \&\& \text{NeQ}[m, -1]$
3059. $\text{Int}[(b_.)*\sec[(e_.) + (f_.)(x_)]^n*((a_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[a*b*(a*\sin[e + f*x])^{m - 1}*((b*\sec[e + f*x])^{n - 1}/(f*(n - 1))), x] - \text{Simp}[a^2*b^2*((m - 1)/(n - 1)) \text{Int}[(a*\sin[e + f*x])^{m - 2}*(b*\sec[e + f*x])^{n - 2}], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{GtQ}[n, 1] \&\& \text{GtQ}[m, 1] \&\& \text{IntegersQ}[2*m, 2*n]$
3060. $\text{Int}[(b_.)*\sec[(e_.) + (f_.)(x_)]^n*((a_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[(a*\sin[e + f*x])^{m + 1}*((b*\sec[e + f*x])^{n + 1}/(a*b*f*(m - n))), x] - \text{Simp}[(n + 1)/(b^2*(m - n)) \text{Int}[(a*\sin[e + f*x])^m*(b*\sec[e + f*x])^{n + 2}], x], x] /; \text{FreeQ}\{a, b, e, f, m\}, x] \&\& \text{GtQ}[n, 1] \&\& \text{IntegersQ}[2*m, 2*n]$
3061. $\text{Int}[(b_.)*\sec[(e_.) + (f_.)(x_)]^n*((a_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[(a*\sin[e + f*x])^{m + 1}*((b*\sec[e + f*x])^{n + 1}/(a*b*f*(m + 1))), x] - \text{Simp}[(n + 1)/(a^2*b^2*(m + 1)) \text{Int}[(a*\sin[e + f*x])^{m + 2}*(b*\sec[e + f*x])^{n + 2}], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{LtQ}[m, -1] \&\& \text{IntegersQ}[2*m, 2*n]$

3062. $\text{Int}[(b \cdot \sec(e + f \cdot x) + (f \cdot x))^n \cdot (a \cdot \sin(e + f \cdot x) + (f \cdot x))]^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[(a \cdot \sin[e + f \cdot x])^{(m+1)} \cdot (b \cdot \sec[e + f \cdot x])^{(n+1)} / (a \cdot b \cdot f \cdot (m - n))]$, x] - $\text{Simp}[(n + 1) / (b^2 \cdot (m - n)) \text{Int}[(a \cdot \sin[e + f \cdot x])^m \cdot (b \cdot \sec[e + f \cdot x])^{(n+2)}]$, x], x] /; FreeQ[{a, b, e, f, m}, x] && LtQ[n, -1] && NeQ[m - n, 0] && IntegersQ[2*m, 2*n]
3063. $\text{Int}[(b \cdot \sec(e + f \cdot x) + (f \cdot x))^n \cdot (a \cdot \sin(e + f \cdot x) + (f \cdot x))]^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[(-a) \cdot b \cdot (a \cdot \sin[e + f \cdot x])^{(m-1)} \cdot (b \cdot \sec[e + f \cdot x])^{(n-1)} / (f \cdot (m - n))]$, x] + $\text{Simp}[a^2 \cdot ((m - 1) / (m - n)) \text{Int}[(a \cdot \sin[e + f \cdot x])^{(m-2)} \cdot (b \cdot \sec[e + f \cdot x])^n]$, x], x] /; FreeQ[{a, b, e, f, n}, x] && GtQ[m, 1] && NeQ[m - n, 0] && IntegersQ[2*m, 2*n]
3064. $\text{Int}[(b \cdot \sec(e + f \cdot x) + (f \cdot x))^n \cdot (a \cdot \sin(e + f \cdot x) + (f \cdot x))]^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[b \cdot (a \cdot \sin[e + f \cdot x])^{(m+1)} \cdot (b \cdot \sec[e + f \cdot x])^{(n-1)} / (a \cdot f \cdot (m + 1))]$, x] + $\text{Simp}[(m - n + 2) / (a^2 \cdot (m + 1)) \text{Int}[(a \cdot \sin[e + f \cdot x])^{(m+2)} \cdot (b \cdot \sec[e + f \cdot x])^n]$, x], x] /; FreeQ[{a, b, e, f, n}, x] && LtQ[m, -1] && IntegersQ[2*m, 2*n]
3065. $\text{Int}[(b \cdot \sec(e + f \cdot x) + (f \cdot x))^n \cdot (a \cdot \sin(e + f \cdot x) + (f \cdot x))]^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[(b \cdot \cos[e + f \cdot x])^n \cdot (b \cdot \sec[e + f \cdot x])^n \text{Int}[(a \cdot \sin[e + f \cdot x])^m / (b \cdot \cos[e + f \cdot x])^n]$, x], x] /; FreeQ[{a, b, e, f, m, n}, x] && IntegerQ[m - 1/2] && IntegerQ[n - 1/2]
3066. $\text{Int}[(b \cdot \sec(e + f \cdot x) + (f \cdot x))^n \cdot (a \cdot \sin(e + f \cdot x) + (f \cdot x))]^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[(1/b^2) \cdot (b \cdot \cos[e + f \cdot x])^{(n+1)} \cdot (b \cdot \sec[e + f \cdot x])^{(n+1)} \text{Int}[(a \cdot \sin[e + f \cdot x])^m / (b \cdot \cos[e + f \cdot x])^n]$, x], x] /; FreeQ[{a, b, e, f, m, n}, x] && !IntegerQ[m] && !IntegerQ[n] && LtQ[n, 1]
3067. $\text{Int}[(b \cdot \sec(e + f \cdot x) + (f \cdot x))^n \cdot (a \cdot \sin(e + f \cdot x) + (f \cdot x))]^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[b^2 \cdot (b \cdot \cos[e + f \cdot x])^{(n-1)} \cdot (b \cdot \sec[e + f \cdot x])^{(n-1)} \text{Int}[(a \cdot \sin[e + f \cdot x])^m / (b \cdot \cos[e + f \cdot x])^n]$, x], x] /; FreeQ[{a, b, e, f, m, n}, x] && !IntegerQ[m] && !IntegerQ[n]
3068. $\text{Int}[(\csc(e + f \cdot x) + (f \cdot x) \cdot (b \cdot \sec(e + f \cdot x) + (f \cdot x)))^n \cdot (a \cdot \sin(e + f \cdot x) + (f \cdot x))]^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[(a \cdot b)^n \cdot \text{IntPart}[n] \cdot (a \cdot \sin[e + f \cdot x])^{\text{FracPart}[n]} \cdot (b \cdot \csc[e + f \cdot x])^{\text{FracPart}[n]} \text{Int}[(a \cdot \sin[e + f \cdot x])^{(m-n)}]$, x], x]

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] /; FreeQ[{a, b, e, f, m, n}, x] && !IntegerQ[m] && !IntegerQ[n]

3069. Int[((a_)*sin[(e_) + (f_)*(x_)])^(m_)*((b_)*tan[(e_) + (f_)*(x_)]
)^(n_), x_Symbol] := Simp[(-b)*(a*Sin[e + f*x])^m*((b*Tan[e + f*x])^(n
- 1)/(f*m)), x] /; FreeQ[{a, b, e, f, m, n}, x] && EqQ[m + n - 1, 0]

3070. Int[sin[(e_) + (f_)*(x_)]^(m_)*tan[(e_) + (f_)*(x_)]^(n_), x_Sym
bol] := Simp[-f^(-1) Subst[Int[(1 - x^2)^((m + n - 1)/2)/x^n, x], x,
Cos[e + f*x]], x] /; FreeQ[{e, f}, x] && IntegersQ[m, n, (m + n - 1)/
2]

3071. Int[sin[(e_) + (f_)*(x_)]^(m_)*((b_)*tan[(e_) + (f_)*(x_)]^(n_)
, x_Symbol] := With[{ff = FreeFactors[Tan[e + f*x], x]}, Simp[b*(ff/f)
Subst[Int[(ff*x)^(m + n)/(b^2 + ff^2*x^2)^(m/2 + 1), x], x, b*(Tan[
e + f*x]/ff)], x] /; FreeQ[{b, e, f, n}, x] && IntegerQ[m/2]

3072. Int[((a_)*sin[(e_) + (f_)*(x_)]^(m_)*tan[(e_) + (f_)*(x_)]^(n_
), x_Symbol] := With[{ff = FreeFactors[Sin[e + f*x], x]}, Simp[ff/f
Subst[Int[(ff*x)^(m + n)/(a^2 - ff^2*x^2)^((n + 1)/2), x], x, a*(Sin[
e + f*x]/ff)], x] /; FreeQ[{a, e, f, m}, x] && IntegerQ[(n + 1)/2]

3073. Int[((a_)*sin[(e_) + (f_)*(x_)]^(m_)*((b_)*tan[(e_) + (f_)*(x_)]
)^(n_), x_Symbol] := Simp[b*(a*Sin[e + f*x])^(m + 2)*((b*Tan[e + f*x]
)^(n - 1)/(a^2*f*(n - 1))), x] - Simp[b^2*((m + 2)/(a^2*(n - 1))) In
t[(a*Sin[e + f*x])^(m + 2)*(b*Tan[e + f*x])^(n - 2), x], x] /; FreeQ[{
a, b, e, f}, x] && GtQ[n, 1] && (LtQ[m, -1] || (EqQ[m, -1] && EqQ[n, 3
/2])) && IntegersQ[2*m, 2*n]

3074. Int[((a_)*sin[(e_) + (f_)*(x_)]^(m_)*((b_)*tan[(e_) + (f_)*(x_)]
)^(n_), x_Symbol] := Simp[b*(a*Sin[e + f*x])^m*((b*Tan[e + f*x])^(n
- 1)/(f*(n - 1))), x] - Simp[b^2*((m + n - 1)/(n - 1)) Int[(a*Sin[
e + f*x])^m*(b*Tan[e + f*x])^(n - 2), x], x] /; FreeQ[{a, b, e, f, m}, x
] && GtQ[n, 1] && IntegersQ[2*m, 2*n] && !(GtQ[m, 1] && !IntegerQ[(m
- 1)/2])

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3075.  $\text{Int}[\text{Sqrt}[(a_.)\sin[(e_.) + (f_.)\cdot(x_)]]/((b_.)\tan[(e_.) + (f_.)\cdot(x_)])^{(3/2)}, x\_Symbol] \rightarrow \text{Simp}[2\cdot(\text{Sqrt}[a\cdot\text{Sin}[e + f\cdot x]]/(b\cdot f\cdot\text{Sqrt}[b\cdot\tan[e + f\cdot x]])), x] + \text{Simp}[a^2/b^2 \text{Int}[\text{Sqrt}[b\cdot\tan[e + f\cdot x]]/(a\cdot\text{Sin}[e + f\cdot x])^{(3/2)}, x], x] /; \text{FreeQ}\{a, b, e, f\}, x]$
3076.  $\text{Int}[(a_.)\sin[(e_.) + (f_.)\cdot(x_)]^{(m_.)}\cdot((b_.)\tan[(e_.) + (f_.)\cdot(x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(a\cdot\text{Sin}[e + f\cdot x])^m\cdot(b\cdot\tan[e + f\cdot x])^{(n+1)}/(b\cdot f\cdot m), x] - \text{Simp}[a^2\cdot((n+1)/(b^2\cdot m)) \text{Int}[(a\cdot\text{Sin}[e + f\cdot x])^{(m-2)}\cdot(b\cdot\tan[e + f\cdot x])^{(n+2)}, x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{GtQ}[m, 1] \&\& \text{IntegersQ}[2\cdot m, 2\cdot n]$
3077.  $\text{Int}[(a_.)\sin[(e_.) + (f_.)\cdot(x_)]^{(m_.)}\cdot((b_.)\tan[(e_.) + (f_.)\cdot(x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(a\cdot\text{Sin}[e + f\cdot x])^m\cdot(b\cdot\tan[e + f\cdot x])^{(n+1)}/(b\cdot f\cdot(m+n+1)), x] - \text{Simp}[(n+1)/(b^2\cdot(m+n+1)) \text{Int}[(a\cdot\text{Sin}[e + f\cdot x])^m\cdot(b\cdot\tan[e + f\cdot x])^{(n+2)}, x], x] /; \text{FreeQ}\{a, b, e, f, m\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[m+n+1, 0] \&\& \text{IntegersQ}[2\cdot m, 2\cdot n] \&\& !( \text{EqQ}[n, -3/2] \&\& \text{EqQ}[m, 1])$
3078.  $\text{Int}[(a_.)\sin[(e_.) + (f_.)\cdot(x_)]^{(m_.)}\cdot((b_.)\tan[(e_.) + (f_.)\cdot(x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(-b)\cdot(a\cdot\text{Sin}[e + f\cdot x])^m\cdot(b\cdot\tan[e + f\cdot x])^{(n-1)}/(f\cdot m), x] + \text{Simp}[a^2\cdot((m+n-1)/m) \text{Int}[(a\cdot\text{Sin}[e + f\cdot x])^{(m-2)}\cdot(b\cdot\tan[e + f\cdot x])^n, x], x] /; \text{FreeQ}\{a, b, e, f, n\}, x] \&\& (\text{GtQ}[m, 1] || (\text{EqQ}[m, 1] \&\& \text{EqQ}[n, 1/2])) \&\& \text{IntegersQ}[2\cdot m, 2\cdot n]$
3079.  $\text{Int}[(a_.)\sin[(e_.) + (f_.)\cdot(x_)]^{(m_.)}\cdot((b_.)\tan[(e_.) + (f_.)\cdot(x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[b\cdot(a\cdot\text{Sin}[e + f\cdot x])^{(m+2)}\cdot(b\cdot\tan[e + f\cdot x])^{(n-1)}/(a^2\cdot f\cdot(m+n+1)), x] + \text{Simp}[(m+2)/(a^2\cdot(m+n+1)) \text{Int}[(a\cdot\text{Sin}[e + f\cdot x])^{(m+2)}\cdot(b\cdot\tan[e + f\cdot x])^n, x], x] /; \text{FreeQ}\{a, b, e, f, n\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[m+n+1, 0] \&\& \text{IntegersQ}[2\cdot m, 2\cdot n]$
3080.  $\text{Int}[(a_.)\sin[(e_.) + (f_.)\cdot(x_)]^{(m_.)}\cdot\tan[(e_.) + (f_.)\cdot(x_)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[1/a^n \text{Int}[(a\cdot\text{Sin}[e + f\cdot x])^{(m+n)}/\text{Cos}[e + f\cdot x]^n, x], x] /; \text{FreeQ}\{a, e, f, m\}, x] \&\& \text{IntegerQ}[n] \&\& !\text{IntegerQ}[m]$
3081.  $\text{Int}[(a_.)\sin[(e_.) + (f_.)\cdot(x_)]^{(m_.)}\cdot((b_.)\tan[(e_.) + (f_.)\cdot(x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[\text{Cos}[e + f\cdot x]^n\cdot(b\cdot\tan[e + f\cdot x])^n/(a\cdot\text{Sin}[$

- $$\text{e + f*x]}^n) \text{ Int}[(a*\text{Sin}[e + f*x])^{(m + n)}/\text{Cos}[e + f*x]^n, x], x] /;$$

$$\text{FreeQ}[\{a, b, e, f, m, n\}, x] \&\& \text{!IntegerQ}[n] \&\& (\text{ILtQ}[m, 0] \|\ (\text{EqQ}[m, 1] \&\& \text{EqQ}[n, -2^{(-1)}]) \|\ \text{IntegersQ}[m - 1/2, n - 1/2])$$
3082. 
$$\text{Int}[(a_*)*\text{sin}[(e_*) + (f_*)*(x_)]^{(m_*)}*((b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \text{:>} \text{Simp}[a*\text{Cos}[e + f*x]^{(n + 1)}*((b*\text{Tan}[e + f*x])^{(n + 1)})/((b*(a*\text{Sin}[e + f*x])^{(n + 1)})) \text{ Int}[(a*\text{Sin}[e + f*x])^{(m + n)}/\text{Cos}[e + f*x]^n, x], x] /;$$

$$\text{FreeQ}[\{a, b, e, f, m, n\}, x] \&\& \text{!IntegerQ}[n]$$
3083. 
$$\text{Int}[(\text{cos}[(e_*) + (f_*)*(x_)]*(a_*))^{(m_*)}*((b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \text{:>} \text{Simp}[(a*\text{Cos}[e + f*x])^{\text{FracPart}[m]}*(\text{Sec}[e + f*x]/a)^{\text{FracPart}[m]} \text{ Int}[(b*\text{Tan}[e + f*x])^n/(\text{Sec}[e + f*x]/a)^m, x], x] /;$$

$$\text{FreeQ}[\{a, b, e, f, m, n\}, x] \&\& \text{!IntegerQ}[m] \&\& \text{!IntegerQ}[n]$$
3084. 
$$\text{Int}[(\text{cot}[(e_*) + (f_*)*(x_)]*(a_*))^{(m_*)}*((b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \text{:>} \text{Simp}[(a*\text{Cot}[e + f*x])^m*(b*\text{Tan}[e + f*x])^m \text{ Int}[(b*\text{Tan}[e + f*x])^{(n - m)}, x], x] /;$$

$$\text{FreeQ}[\{a, b, e, f, m, n\}, x] \&\& \text{!IntegerQ}[m] \&\& \text{!IntegerQ}[n]$$
3085. 
$$\text{Int}[(a_*)*\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}*((b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \text{:>} \text{Simp}[(-a*\text{Sec}[e + f*x])^m*((b*\text{Tan}[e + f*x])^{(n + 1)})/(b*f*m), x] /;$$

$$\text{FreeQ}[\{a, b, e, f, m, n\}, x] \&\& \text{EqQ}[m + n + 1, 0]$$
3086. 
$$\text{Int}[(a_*)*\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}*((b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \text{:>} \text{Simp}[a/f \text{ Subst}[\text{Int}[(a*x)^{(m - 1)}*(-1 + x^2)^{((n - 1)/2)}, x], x, \text{Sec}[e + f*x]], x] /;$$

$$\text{FreeQ}[\{a, e, f, m\}, x] \&\& \text{IntegerQ}[(n - 1)/2] \&\& \text{!(IntegerQ}[m/2] \&\& \text{LtQ}[0, m, n + 1])$$
3087. 
$$\text{Int}[\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}*((b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \text{:>} \text{Simp}[1/f \text{ Subst}[\text{Int}[(b*x)^n*(1 + x^2)^{(m/2 - 1)}, x], x, \text{Tan}[e + f*x]], x] /;$$

$$\text{FreeQ}[\{b, e, f, n\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{!(IntegerQ}[(n - 1)/2] \&\& \text{LtQ}[0, n, m - 1])$$
3088. 
$$\text{Int}[(a_*)*\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}*((b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \text{:>} \text{Simp}[a^2*(a*\text{Sec}[e + f*x])^{(m - 2)}*((b*\text{Tan}[e + f*x])^{(n - 1)})/((b*(a*\text{Sec}[e + f*x])^{(m - 1)})), x] /;$$

$$\text{FreeQ}[\{a, b, e, f, m, n\}, x] \&\& \text{IntegerQ}[m - 2] \&\& \text{IntegerQ}[n - 1] \&\& \text{!(IntegerQ}[m/2] \&\& \text{LtQ}[0, m, n + 1])$$

- $$\text{Int}[(a \sec(e + fx))^m (b \tan(e + fx))^{n+1} / (b f (n+1)), x] - \text{Simp}[a^2 ((m-2)/(b^2 (n+1))) \text{Int}[(a \sec(e + fx))^{m-2} (b \tan(e + fx))^{n+2}, x], x] /;$$

$$\text{FreeQ}\{a, b, e, f, x\} \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ (\text{GtQ}[m, 1] \ || \ (\text{EqQ}[m, 1] \ \&\& \ \text{EqQ}[n, -3/2])) \ \&\& \ \text{IntegersQ}[2m, 2n]$$
3089. 
$$\text{Int}[(a \sec(e + fx))^m (b \tan(e + fx))^{n+1} / (b f (n+1)), x] - \text{Simp}[(m+n+1)/(b^2 (n+1)) \text{Int}[(a \sec(e + fx))^m (b \tan(e + fx))^{n+2}, x], x] /;$$

$$\text{FreeQ}\{a, b, e, f, m, x\} \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{IntegersQ}[2m, 2n]$$
3090. 
$$\text{Int}[(a \sec(e + fx))^m (b \tan(e + fx))^{n-1} / (f m), x] - \text{Simp}[b^2 ((n-1)/(a^2 m)) \text{Int}[(a \sec(e + fx))^{m+2} (b \tan(e + fx))^{n-2}, x], x] /;$$

$$\text{FreeQ}\{a, b, e, f, x\} \ \&\& \ \text{GtQ}[n, 1] \ \&\& \ (\text{LtQ}[m, -1] \ || \ (\text{EqQ}[m, -1] \ \&\& \ \text{EqQ}[n, 3/2])) \ \&\& \ \text{IntegersQ}[2m, 2n]$$
3091. 
$$\text{Int}[(a \sec(e + fx))^m (b \tan(e + fx))^{n-1} / (f (m+n-1)), x] - \text{Simp}[b^2 ((n-1)/(m+n-1)) \text{Int}[(a \sec(e + fx))^m (b \tan(e + fx))^{n-2}, x], x] /;$$

$$\text{FreeQ}\{a, b, e, f, m, x\} \ \&\& \ \text{GtQ}[n, 1] \ \&\& \ \text{NeQ}[m+n-1, 0] \ \&\& \ \text{IntegersQ}[2m, 2n]$$
3092. 
$$\text{Int}[(a \sec(e + fx))^m (b \tan(e + fx))^{n+1} / (b f m), x] + \text{Simp}[(m+n+1)/(a^2 m) \text{Int}[(a \sec(e + fx))^{m+2} (b \tan(e + fx))^n, x], x] /;$$

$$\text{FreeQ}\{a, b, e, f, n, x\} \ \&\& \ (\text{LtQ}[m, -1] \ || \ (\text{EqQ}[m, -1] \ \&\& \ \text{EqQ}[n, -2^{(-1)}])) \ \&\& \ \text{IntegersQ}[2m, 2n]$$
3093. 
$$\text{Int}[(a \sec(e + fx))^m (b \tan(e + fx))^{n+1} / (b f (m+n-1)), x] + \text{Simp}[a^2 ((m-2)/(m+n-1)) \text{Int}[(a \sec(e + fx))^{m-2} (b \tan(e + fx))^n, x], x] /;$$

$$\text{FreeQ}\{a, b, e, f, n, x\} \ \&\& \ (\text{GtQ}[m, 1] \ || \ (\text{EqQ}[m, 1] \ \&\& \ \text{EqQ}[n, 1/2])) \ \&\& \ \text{NeQ}[m+n-1, 0] \ \&\& \ \text{IntegersQ}[2m, 2n]$$

3094.  $\text{Int}[\sec[(e_.) + (f_.)(x_)]/\text{Sqrt}[(b_.)\tan[(e_.) + (f_.)(x_)]]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[\text{Sqrt}[\text{Sin}[e + f*x]]/(\text{Sqrt}[\text{Cos}[e + f*x]]*\text{Sqrt}[b*\text{Tan}[e + f*x]])$   $\text{Int}[1/(\text{Sqrt}[\text{Cos}[e + f*x]]*\text{Sqrt}[\text{Sin}[e + f*x]])$ , x], x] /;  $\text{FreeQ}[\{b, e, f\}, x]$
3095.  $\text{Int}[\text{Sqrt}[(b_.)\tan[(e_.) + (f_.)(x_)]]/\sec[(e_.) + (f_.)(x_)]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[\text{Sqrt}[\text{Cos}[e + f*x]]*(\text{Sqrt}[b*\text{Tan}[e + f*x]]/\text{Sqrt}[\text{Sin}[e + f*x]])$   $\text{Int}[\text{Sqrt}[\text{Cos}[e + f*x]]*\text{Sqrt}[\text{Sin}[e + f*x]]$ , x], x] /;  $\text{FreeQ}[\{b, e, f\}, x]$
3096.  $\text{Int}[(a_.)\sec[(e_.) + (f_.)(x_)]^{(m_.)}((b_.)\tan[(e_.) + (f_.)(x_)]^{(n_.)})$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[a^{(m+n)}*((b*\text{Tan}[e + f*x])^n/((a*\text{Sec}[e + f*x])^n*(b*\text{Sin}[e + f*x])^n))$   $\text{Int}[(b*\text{Sin}[e + f*x])^n/\text{Cos}[e + f*x]^{(m+n)}$ , x], x] /;  $\text{FreeQ}[\{a, b, e, f, m, n\}, x]$  &&  $\text{IntegerQ}[n + 1/2]$  &&  $\text{IntegerQ}[m + 1/2]$
3097.  $\text{Int}[(a_.)\sec[(e_.) + (f_.)(x_)]^{(m_.)}((b_.)\tan[(e_.) + (f_.)(x_)]^{(n_.)})$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[(a*\text{Sec}[e + f*x])^m*(b*\text{Tan}[e + f*x])^{(n+1)}*((\text{Cos}[e + f*x]^2)^{(m+n+1)/2}/(b*f*(n+1)))*\text{Hypergeometric2F1}[(n+1)/2, (m+n+1)/2, (n+3)/2, \text{Sin}[e + f*x]^2]$ , x] /;  $\text{FreeQ}[\{a, b, e, f, m, n\}, x]$  &&  $!\text{IntegerQ}[(n-1)/2]$  &&  $!\text{IntegerQ}[m/2]$
3098.  $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(a_.))^{(m_.)}((b_.)\tan[(e_.) + (f_.)(x_)]^{(n_.)})$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[(a*\text{Csc}[e + f*x])^{\text{FracPart}[m]}*(\text{Sin}[e + f*x]/a)^{\text{FracPart}[m]}$   $\text{Int}[(b*\text{Tan}[e + f*x])^n/(\text{Sin}[e + f*x]/a)^m$ , x], x] /;  $\text{FreeQ}[\{a, b, e, f, m, n\}, x]$  &&  $!\text{IntegerQ}[m]$  &&  $!\text{IntegerQ}[n]$
3099.  $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(a_.))^{(m_.)}((b_.)\sec[(e_.) + (f_.)(x_)]^{(n_.)})$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[a*b*(a*\text{Csc}[e + f*x])^{(m-1)}*((b*\text{Sec}[e + f*x])^{(n-1)}/(f*(n-1)))$ , x] /;  $\text{FreeQ}[\{a, b, e, f, m, n\}, x]$  &&  $\text{EqQ}[m + n - 2, 0]$  &&  $\text{NeQ}[n, 1]$
3100.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_)]^{(m_.)}\sec[(e_.) + (f_.)(x_)]^{(n_.)}$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[1/f$   $\text{Subst}[\text{Int}[(1 + x^2)^{(m+n)/2 - 1}/x^m$ , x], x,  $\text{Tan}[e + f*x]$ ], x] /;  $\text{FreeQ}[\{e, f\}, x]$  &&  $\text{IntegersQ}[m, n, (m+n)/2]$

3101.  $\text{Int}[(\text{csc}[e_.] + (f_.)(x_)]*(a_.))^{(m_.)}*\text{sec}[e_.] + (f_.)(x_)]^{(n_.)}$   
 $, x\_Symbol] := \text{Simp}[-(f*a^n)^{-1} \text{Subst}[\text{Int}[x^{(m+n-1)/(-1+x^2/a^2)}]$   
 $^{((n+1)/2)}, x], x, a*\text{Csc}[e+f*x]], x] /; \text{FreeQ}\{a, e, f, m\}, x]$   
 $\&\& \text{IntegerQ}[(n+1)/2] \&\& !( \text{IntegerQ}[(m+1)/2] \&\& \text{LtQ}[0, m, n])$
3102.  $\text{Int}[\text{csc}[e_.] + (f_.)(x_)]^{(n_.)}*((a_.)*\text{sec}[e_.] + (f_.)(x_)]^{(m_.)}$   
 $, x\_Symbol] := \text{Simp}[1/(f*a^n) \text{Subst}[\text{Int}[x^{(m+n-1)/(-1+x^2/a^2)}$   
 $^{((n+1)/2)}, x], x, a*\text{Sec}[e+f*x]], x] /; \text{FreeQ}\{a, e, f, m\}, x] \&\&$   
 $\text{IntegerQ}[(n+1)/2] \&\& !( \text{IntegerQ}[(m+1)/2] \&\& \text{LtQ}[0, m, n])$
3103.  $\text{Int}[(\text{csc}[e_.] + (f_.)(x_)]*(a_.))^{(m_.)}*((b_.)*\text{sec}[e_.] + (f_.)(x_)]^{(n_.)}$   
 $, x\_Symbol] := \text{Simp}[(-a)*(a*\text{Csc}[e+f*x])^{(m-1)}*((b*\text{Sec}[e+f*x])^{(n+1)}/(f*b*(m-1)))$   
 $, x] + \text{Simp}[a^2*((n+1)/(b^2*(m-1))) \text{Int}[(a*\text{Csc}[e+f*x])^{(m-2)}*(b*\text{Sec}[e+f*x])^{(n+2)}, x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{GtQ}[m, 1] \&\& \text{LtQ}[n, -1] \&\& \text{IntegersQ}[2*m, 2*n]$
3104.  $\text{Int}[(\text{csc}[e_.] + (f_.)(x_)]*(a_.))^{(m_.)}*((b_.)*\text{sec}[e_.] + (f_.)(x_)]^{(n_.)}$   
 $, x\_Symbol] := \text{Simp}[b*(a*\text{Csc}[e+f*x])^{(m+1)}*((b*\text{Sec}[e+f*x])^{(n-1)}/(f*a*(n-1)))$   
 $, x] + \text{Simp}[b^2*((m+1)/(a^2*(n-1))) \text{Int}[(a*\text{Csc}[e+f*x])^{(m+2)}*(b*\text{Sec}[e+f*x])^{(n-2)}, x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{GtQ}[n, 1] \&\& \text{LtQ}[m, -1] \&\& \text{IntegersQ}[2*m, 2*n]$
3105.  $\text{Int}[(\text{csc}[e_.] + (f_.)(x_)]*(a_.))^{(m_.)}*((b_.)*\text{sec}[e_.] + (f_.)(x_)]^{(n_.)}$   
 $, x\_Symbol] := \text{Simp}[(-a)*b*(a*\text{Csc}[e+f*x])^{(m-1)}*((b*\text{Sec}[e+f*x])^{(n-1)}/(f*(m-1)))$   
 $, x] + \text{Simp}[a^2*((m+n-2)/(m-1)) \text{Int}[(a*\text{Csc}[e+f*x])^{(m-2)}*(b*\text{Sec}[e+f*x])^n, x], x] /; \text{FreeQ}\{a, b, e, f, n\}, x] \&\& \text{GtQ}[m, 1] \&\& \text{IntegersQ}[2*m, 2*n] \&\& !\text{GtQ}[n, m]$
3106.  $\text{Int}[(\text{csc}[e_.] + (f_.)(x_)]*(a_.))^{(m_.)}*((b_.)*\text{sec}[e_.] + (f_.)(x_)]^{(n_.)}$   
 $, x\_Symbol] := \text{Simp}[a*b*(a*\text{Csc}[e+f*x])^{(m-1)}*((b*\text{Sec}[e+f*x])^{(n-1)}/(f*(n-1)))$   
 $, x] + \text{Simp}[b^2*((m+n-2)/(n-1)) \text{Int}[(a*\text{Csc}[e+f*x])^m*(b*\text{Sec}[e+f*x])^{(n-2)}, x], x] /; \text{FreeQ}\{a, b, e, f, m\}, x] \&\& \text{GtQ}[n, 1] \&\& \text{IntegersQ}[2*m, 2*n]$
3107.  $\text{Int}[(\text{csc}[e_.] + (f_.)(x_)]*(a_.))^{(m_.)}*((b_.)*\text{sec}[e_.] + (f_.)(x_)]^{(n_.)}$   
 $, x\_Symbol] := \text{Simp}[b*(a*\text{Csc}[e+f*x])^{(m+1)}*((b*\text{Sec}[e+f*x])^{(n-1)}/(a*f*(m+n)))$   
 $, x] + \text{Simp}[(m+1)/(a^2*(m+n)) \text{Int}[(a*\text{Csc}$



- $c[e + f*x]^{(m + 2)}*(b*\text{Sec}[e + f*x])^n, x], x] /; \text{FreeQ}\{a, b, e, f, n\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[m + n, 0] \&\& \text{IntegersQ}[2*m, 2*n]$
3108.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(a\_.)^{(m\_)}*((b\_.)*\text{sec}[(e\_.) + (f\_.)*(x\_)]))^{(n\_)}, x\_Symbol] :> \text{Simp}[(-a)*(a*\text{Csc}[e + f*x])^{(m - 1)}*((b*\text{Sec}[e + f*x])^{(n + 1)} / (b*f*(m + n))), x] + \text{Simp}[(n + 1) / (b^2*(m + n)) \text{Int}[(a*\text{Csc}[e + f*x])^m*(b*\text{Sec}[e + f*x])^{(n + 2)}, x], x] /; \text{FreeQ}\{a, b, e, f, m\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[m + n, 0] \&\& \text{IntegersQ}[2*m, 2*n]$
3109.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(a\_.)^{(m\_)}*((b\_.)*\text{sec}[(e\_.) + (f\_.)*(x\_)]))^{(n\_)}, x\_Symbol] :> \text{Simp}[(a*\text{Csc}[e + f*x])^m*((b*\text{Sec}[e + f*x])^n / \text{Tan}[e + f*x]^n) \text{Int}[\text{Tan}[e + f*x]^n, x], x] /; \text{FreeQ}\{a, b, e, f, m, n\}, x] \&\& !\text{IntegerQ}[n] \&\& \text{EqQ}[m + n, 0]$
3110.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(a\_.)^{(m\_)}*((b\_.)*\text{sec}[(e\_.) + (f\_.)*(x\_)]))^{(n\_)}, x\_Symbol] :> \text{Simp}[(a*\text{Csc}[e + f*x])^m*(b*\text{Sec}[e + f*x])^n*(a*\text{Sin}[e + f*x])^m*(b*\text{Cos}[e + f*x])^n \text{Int}[1 / ((a*\text{Sin}[e + f*x])^m*(b*\text{Cos}[e + f*x])^n), x], x] /; \text{FreeQ}\{a, b, e, f, m, n\}, x] \&\& \text{IntegerQ}[m - 1/2] \&\& \text{IntegerQ}[n - 1/2]$
3111.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(a\_.)^{(m\_)}*((b\_.)*\text{sec}[(e\_.) + (f\_.)*(x\_)]))^{(n\_)}, x\_Symbol] :> \text{Simp}[(a^2/b^2)*(a*\text{Csc}[e + f*x])^{(m - 1)}*(b*\text{Sec}[e + f*x])^{(n + 1)}*(a*\text{Sin}[e + f*x])^{(m - 1)}*(b*\text{Cos}[e + f*x])^{(n + 1)} \text{Int}[1 / ((a*\text{Sin}[e + f*x])^m*(b*\text{Cos}[e + f*x])^n), x], x] /; \text{FreeQ}\{a, b, e, f, m, n\}, x] \&\& !\text{SimplerQ}[-m, -n]$
3112.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.)^{(n\_)}*((a\_.)*\text{sec}[(e\_.) + (f\_.)*(x\_)]))^{(m\_)}, x\_Symbol] :> \text{Simp}[(a^2/b^2)*(a*\text{Sec}[e + f*x])^{(m - 1)}*(b*\text{Csc}[e + f*x])^{(n + 1)}*(a*\text{Cos}[e + f*x])^{(m - 1)}*(b*\text{Sin}[e + f*x])^{(n + 1)} \text{Int}[1 / ((a*\text{Cos}[e + f*x])^m*(b*\text{Sin}[e + f*x])^n), x], x] /; \text{FreeQ}\{a, b, e, f, m, n\}, x]$
3113.  $\text{Int}[\text{sin}[(c\_.) + (d\_.)*(x\_)]^{(n\_)}, x\_Symbol] :> \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[\text{Expand}[(1 - x^2)^{((n - 1)/2)}, x], x], x, \text{Cos}[c + d*x]], x] /; \text{FreeQ}\{c, d\}, x] \&\& \text{IGtQ}[(n - 1)/2, 0]$

3114.  $\text{Int}[\sin[(c_.) + ((d_.)(x_))/2]^2, x\_Symbol] \rightarrow \text{Simp}[x/2, x] - \text{Simp}[\text{Sin}[2*c + d*x]/(2*d), x] /; \text{FreeQ}[\{c, d\}, x]$
3115.  $\text{Int}[((b_.)\sin[(c_.) + (d_.)(x_)])^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[(-b)\text{Cos}[c + d*x]*((b*\text{Sin}[c + d*x])^{(n - 1)})/(d*n), x] + \text{Simp}[b^2*((n - 1)/n) \text{Int}[(b*\text{Sin}[c + d*x])^{(n - 2)}, x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{GtQ}[n, 1] \&\& \text{IntegerQ}[2*n]$
3116.  $\text{Int}[((b_.)\sin[(c_.) + (d_.)(x_)])^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[\text{Cos}[c + d*x]*((b*\text{Sin}[c + d*x])^{(n + 1)})/(b*d*(n + 1)), x] + \text{Simp}[(n + 2)/(b^2*(n + 1)) \text{Int}[(b*\text{Sin}[c + d*x])^{(n + 2)}, x], x] /; \text{FreeQ}[\{b, c, d\}, x] \& \& \text{LtQ}[n, -1] \&\& \text{IntegerQ}[2*n]$
3117.  $\text{Int}[\sin[\text{Pi}/2 + (c_.) + (d_.)(x_)], x\_Symbol] \rightarrow \text{Simp}[\text{Sin}[c + d*x]/d, x] /; \text{FreeQ}[\{c, d\}, x]$
3118.  $\text{Int}[\sin[(c_.) + (d_.)(x_)], x\_Symbol] \rightarrow \text{Simp}[-\text{Cos}[c + d*x]/d, x] /; \text{FreeQ}[\{c, d\}, x]$
3119.  $\text{Int}[\text{Sqrt}[\sin[(c_.) + (d_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[(2/d)*\text{EllipticE}[(1/2)*(c - \text{Pi}/2 + d*x), 2], x] /; \text{FreeQ}[\{c, d\}, x]$
3120.  $\text{Int}[1/\text{Sqrt}[\sin[(c_.) + (d_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[(2/d)*\text{EllipticF}[(1/2)*(c - \text{Pi}/2 + d*x), 2], x] /; \text{FreeQ}[\{c, d\}, x]$
3121.  $\text{Int}[((b_.)\sin[(c_.) + (d_.)(x_)])^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[(b*\text{Sin}[c + d*x])^n/\text{Sin}[c + d*x]^n \text{Int}[\text{Sin}[c + d*x]^n, x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{LtQ}[-1, n, 1] \&\& \text{IntegerQ}[2*n]$
3122.  $\text{Int}[((b_.)\sin[(c_.) + (d_.)(x_)])^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[\text{Cos}[c + d*x]*((b*\text{Sin}[c + d*x])^{(n + 1)})/(b*d*(n + 1)*\text{Sqrt}[\text{Cos}[c + d*x]^2])*\text{Hypergeometric2F1}[1/2, (n + 1)/2, (n + 3)/2, \text{Sin}[c + d*x]^2], x] /; \text{FreeQ}[\{b, c, d, n\}, x] \&\& !\text{IntegerQ}[2*n]$
3123.  $\text{Int}(((a_) + (b_.)\sin[(c_.) + (d_.)(x_)])^2, x\_Symbol] \rightarrow \text{Simp}[(2*a^2 + b^2)*(x/2), x] + (-\text{Simp}[2*a*b*(\text{Cos}[c + d*x]/d), x] - \text{Simp}[b^2*\text{Cos}[c$

- + d\*x]\*(Sin[c + d\*x]/(2\*d)), x]) /; FreeQ[{a, b, c, d}, x]
3124. Int[((a\_) + (b\_)\*sin[(c\_) + (d\_)\*(x\_)])^(n\_), x\_Symbol] := Int[ExpandTrig[(a + b\*sin[c + d\*x])^n, x], x] /; FreeQ[{a, b, c, d, n}, x] && EqQ[a^2 - b^2, 0] && IGtQ[n, 0]
3125. Int[Sqrt[(a\_) + (b\_)\*sin[(c\_) + (d\_)\*(x\_)]], x\_Symbol] := Simp[-2\*b\*(Cos[c + d\*x]/(d\*Sqrt[a + b\*Sin[c + d\*x]])), x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0]
3126. Int[((a\_) + (b\_)\*sin[(c\_) + (d\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[(-b)\*Cos[c + d\*x]\*((a + b\*Sin[c + d\*x])^(n - 1)/(d\*n)), x] + Simp[a\*((2\*n - 1)/n) Int[(a + b\*Sin[c + d\*x])^(n - 1), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0] && IGtQ[n - 1/2, 0]
3127. Int[((a\_) + (b\_)\*sin[(c\_) + (d\_)\*(x\_)])^(-1), x\_Symbol] := Simp[-Cos[c + d\*x]/(d\*(b + a\*Sin[c + d\*x])), x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0]
3128. Int[1/Sqrt[(a\_) + (b\_)\*sin[(c\_) + (d\_)\*(x\_)]], x\_Symbol] := Simp[-2/d Subst[Int[1/(2\*a - x^2), x], x, b\*(Cos[c + d\*x]/Sqrt[a + b\*Sin[c + d\*x]])], x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0]
3129. Int[((a\_) + (b\_)\*sin[(c\_) + (d\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[b\*Cos[c + d\*x]\*((a + b\*Sin[c + d\*x])^n/(a\*d\*(2\*n + 1))), x] + Simp[(n + 1)/(a\*(2\*n + 1)) Int[(a + b\*Sin[c + d\*x])^(n + 1), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0] && LtQ[n, -1] && IntegerQ[2\*n]
3130. Int[((a\_) + (b\_)\*sin[(c\_) + (d\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[(-2^(n + 1/2))\*a^(n - 1/2)\*b\*(Cos[c + d\*x]/(d\*Sqrt[a + b\*Sin[c + d\*x]]))\*Hypergeometric2F1[1/2, 1/2 - n, 3/2, (1/2)\*(1 - b\*(Sin[c + d\*x]/a))], x] /; FreeQ[{a, b, c, d, n}, x] && EqQ[a^2 - b^2, 0] && !IntegerQ[2\*n] && GtQ[a, 0]
3131. Int[((a\_) + (b\_)\*sin[(c\_) + (d\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[a\*IntPart[n]\*((a + b\*Sin[c + d\*x])^FracPart[n]/(1 + (b/a)\*Sin[c + d\*x]))^FracPart[n], x] /; FreeQ[{a, b, c, d, n}, x] && EqQ[a^2 - b^2, 0] && IntegerQ[n]

- $\text{racPart}[n]) \quad \text{Int}[(1 + (b/a)*\text{Sin}[c + d*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{IntegerQ}[2*n] \&\& !\text{GtQ}[a, 0]$
3132.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*\text{sin}[(c_) + (d_)*(x_)]], x\_Symbol] \rightarrow \text{Simp}[2*(\text{Sqrt}[a + b]/d)*\text{EllipticE}[(1/2)*(c - \text{Pi}/2 + d*x), 2*(b/(a + b))], x] /;$   
 $\text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[a + b, 0]$
3133.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*\text{sin}[(c_) + (d_)*(x_)]], x\_Symbol] \rightarrow \text{Simp}[2*(\text{Sqrt}[a - b]/d)*\text{EllipticE}[(1/2)*(c + \text{Pi}/2 + d*x), -2*(b/(a - b))], x] /;$   
 $\text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[a - b, 0]$
3134.  $\text{Int}[\text{Sqrt}[(a_) + (b_)*\text{sin}[(c_) + (d_)*(x_)]], x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[a + b*\text{Sin}[c + d*x]]/\text{Sqrt}[(a + b*\text{Sin}[c + d*x])/(a + b)] \quad \text{Int}[\text{Sqrt}[a/(a + b) + (b/(a + b))*\text{Sin}[c + d*x]], x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& !\text{GtQ}[a + b, 0]$
3135.  $\text{Int}[(a_) + (b_)*\text{sin}[(c_) + (d_)*(x_)]^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[(-b)*\text{Cos}[c + d*x]*((a + b*\text{Sin}[c + d*x])^{(n - 1)}/(d*n)), x] + \text{Simp}[1/n \quad \text{Int}[(a + b*\text{Sin}[c + d*x])^{(n - 2)}*\text{Simp}[a^2*n + b^2*(n - 1) + a*b*(2*n - 1)*\text{Sin}[c + d*x], x], x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[n, 1] \&\& \text{IntegerQ}[2*n]$
3136.  $\text{Int}[(a_) + (b_)*\text{sin}[(c_) + (d_)*(x_)]^{(-1)}, x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[a^2 - b^2, 2]\}, \text{Simp}[x/q, x] + \text{Simp}[(2/(d*q))*\text{ArcTan}[b*(\text{Cos}[c + d*x]/(a + q + b*\text{Sin}[c + d*x]))], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{GtQ}[a^2 - b^2, 0] \&\& \text{PosQ}[a]$
3137.  $\text{Int}[(a_) + (b_)*\text{sin}[(c_) + (d_)*(x_)]^{(-1)}, x\_Symbol] \rightarrow \text{With}\{q = \text{Rt}[a^2 - b^2, 2]\}, \text{Simp}[-x/q, x] - \text{Simp}[(2/(d*q))*\text{ArcTan}[b*(\text{Cos}[c + d*x]/(a - q + b*\text{Sin}[c + d*x]))], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{GtQ}[a^2 - b^2, 0] \&\& \text{NegQ}[a]$
3138.  $\text{Int}[(a_) + (b_)*\text{sin}[\text{Pi}/2 + (c_) + (d_)*(x_)]^{(-1)}, x\_Symbol] \rightarrow \text{With}\{e = \text{FreeFactors}[\text{Tan}[(c + d*x)/2], x]\}, \text{Simp}[2*(e/d) \quad \text{Subst}[\text{Int}[1/(a + b + (a - b)*e^2*x^2), x], x, \text{Tan}[(c + d*x)/2]/e], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0]$

3139.  $\text{Int}[(a + (b \sin(c) + d x)^{-1}), x_{\text{Symbol}}] \rightarrow \text{With}[\{e = \text{FreeFactors}[\text{Tan}[(c + d x)/2], x]\}, \text{Simp}[2*(e/d) \text{ Subst}[\text{Int}[1/(a + 2*b*e*x + a*e^2*x^2), x], x, \text{Tan}[(c + d*x)/2]/e], x]] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
3140.  $\text{Int}[1/\text{Sqrt}[(a + (b \sin(c) + d x))], x_{\text{Symbol}}] \rightarrow \text{Simp}[(2/(d*\text{Sqrt}[a + b]))*\text{EllipticF}[(1/2)*(c - \text{Pi}/2 + d*x), 2*(b/(a + b))], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[a + b, 0]$
3141.  $\text{Int}[1/\text{Sqrt}[(a + (b \sin(c) + d x))], x_{\text{Symbol}}] \rightarrow \text{Simp}[(2/(d*\text{Sqrt}[a - b]))*\text{EllipticF}[(1/2)*(c + \text{Pi}/2 + d*x), -2*(b/(a - b))], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[a - b, 0]$
3142.  $\text{Int}[1/\text{Sqrt}[(a + (b \sin(c) + d x))], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Sqrt}[(a + b*\text{Sin}[c + d*x])/(a + b)]/\text{Sqrt}[a + b*\text{Sin}[c + d*x]] \text{ Int}[1/\text{Sqrt}[a/(a + b) + (b/(a + b))*\text{Sin}[c + d*x]], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ !\text{GtQ}[a + b, 0]$
3143.  $\text{Int}[(a + (b \sin(c) + d x))^n], x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b)*\text{Cos}[c + d*x]*((a + b*\text{Sin}[c + d*x])^{n+1}/(d*(n+1)*(a^2 - b^2))), x] + \text{Simp}[1/((n+1)*(a^2 - b^2)) \text{ Int}[(a + b*\text{Sin}[c + d*x])^{n+1} * \text{Simp}[a*(n+1) - b*(n+2)*\text{Sin}[c + d*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{IntegerQ}[2*n]$
3144.  $\text{Int}[(a + (b \sin(c) + d x))^n], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Cos}[c + d*x]/(d*\text{Sqrt}[1 + \text{Sin}[c + d*x]]*\text{Sqrt}[1 - \text{Sin}[c + d*x]]) \text{ Subst}[\text{Int}[(a + b*x)^n/(\text{Sqrt}[1 + x]*\text{Sqrt}[1 - x]), x], x, \text{Sin}[c + d*x]], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ !\text{IntegerQ}[2*n]$
3145.  $\text{Int}[(a + \cos(c) + (d x))*(b \sin(c) + d x)^n], x_{\text{Symbol}}] \rightarrow \text{Int}[(a + b*(\text{Sin}[2*c + 2*d*x]/2))^n, x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
3146.  $\text{Int}[\cos(e + (f x))^p*((a + (b \sin(e) + f x))^m)], x_{\text{Symbol}}] \rightarrow \text{Simp}[1/(b^p*f) \text{ Subst}[\text{Int}[(a + x)^{m+(p-1)}], x], x]$

- $$\frac{1}{2}(a - x)^{(p-1)/2}, x], x, b\sin[e + f*x]], x] /; \text{FreeQ}\{a, b, e, f, m\}, x\} \ \&\& \ \text{IntegerQ}\{(p-1)/2\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ (\text{GeQ}[p, -1] \ || \ \text{!IntegerQ}[m + 1/2])$$
3147.  $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^{(p_.)*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/(b^p*f) \ \text{Subst}[\text{Int}[(a + x)^m*(b^2 - x^2)^{(p-1)/2}, x], x, b\sin[e + f*x]], x] /; \text{FreeQ}\{a, b, e, f, m\}, x\} \ \&\& \ \text{IntegerQ}\{(p-1)/2\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
3148.  $\text{Int}[(\cos[(e_.) + (f_.)(x_.)]*(g_.))^{(p_.)*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[(-b)*((g*\cos[e + f*x])^{(p+1)/(f*g*(p+1))}), x] + \text{Simp}[a \ \text{Int}[(g*\cos[e + f*x])^p, x], x] /; \text{FreeQ}\{a, b, e, f, g, p\}, x\} \ \&\& \ (\text{IntegerQ}[2*p] \ || \ \text{NeQ}[a^2 - b^2, 0])$
3149.  $\text{Int}[(\cos[(e_.) + (f_.)(x_.)]*(g_.))^{(p_.)*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(a/g)^{(2*m)} \ \text{Int}[(g*\cos[e + f*x])^{(2*m+p)/(a - b*\sin[e + f*x])^m}, x], x] /; \text{FreeQ}\{a, b, e, f, g\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{GeQ}[2*m + p, 0]$
3150.  $\text{Int}[(\cos[(e_.) + (f_.)(x_.)]*(g_.))^{(p_.)*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[b*(g*\cos[e + f*x])^{(p+1)*((a + b*\sin[e + f*x])^m/(a*f*g*m))}, x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[\text{Simplify}[m + p + 1], 0] \ \&\& \ \text{!ILtQ}[p, 0]$
3151.  $\text{Int}[(\cos[(e_.) + (f_.)(x_.)]*(g_.))^{(p_.)*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[b*(g*\cos[e + f*x])^{(p+1)*((a + b*\sin[e + f*x])^m/(a*f*g*\text{Simplify}[2*m + p + 1]))}, x] + \text{Simp}[\text{Simplify}[m + p + 1]/(a*\text{Simplify}[2*m + p + 1]) \ \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{(m+1)}, x], x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{ILtQ}[\text{Simplify}[m + p + 1], 0] \ \&\& \ \text{NeQ}[2*m + p + 1, 0] \ \&\& \ \text{!IGtQ}[m, 0]$
3152.  $\text{Int}[(\cos[(e_.) + (f_.)(x_.)]*(g_.))^{(p_.)*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[b*(g*\cos[e + f*x])^{(p+1)*((a + b*\sin[e + f*x])^{(m-1)/(f*g*(m-1))}), x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[2*m + p - 1, 0] \ \&\& \ \text{NeQ}[m, 1]$

3153.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)])^m, x\_Symbol] := \text{Simp}[(-b)*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^{m-1}/(f*g*(m+p))), x] + \text{Simp}[a*((2*m + p - 1)/(m + p)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{m-1}, x], x] /;$   
 $\text{FreeQ}\{a, b, e, f, g, m, p\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IGtQ}[\text{Simplify}[(2*m + p - 1)/2], 0] \ \&\& \ \text{NeQ}[m + p, 0]$
3154.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)])^m, x\_Symbol] := \text{Simp}[(-b)*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^m/(a*f*g*(p+1))), x] + \text{Simp}[a*((m + p + 1)/(g^2*(p + 1))) \text{Int}[(g*\cos[e + f*x])^{p+2}*(a + b*\sin[e + f*x])^{m-1}, x], x] /;$   
 $\text{FreeQ}\{a, b, e, f, g\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[m, 0] \ \&\& \ \text{LeQ}[p, -2*m] \ \&\& \ \text{IntegersQ}[m + 1/2, 2*p]$
3155.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)])^m, x\_Symbol] := \text{Simp}[-2*b*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^{m-1}/(f*g*(p+1))), x] + \text{Simp}[b^2*((2*m + p - 1)/(g^2*(p + 1))) \text{Int}[(g*\cos[e + f*x])^{p+2}*(a + b*\sin[e + f*x])^{m-2}, x], x] /;$   
 $\text{FreeQ}\{a, b, e, f, g\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[m, 1] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{IntegersQ}[2*m, 2*p]$
3156.  $\text{Int}[\text{Sqrt}[(a_) + (b_.)\sin[(e_.) + (f_.)(x_)]]/\text{Sqrt}[\cos[(e_.) + (f_.)(x_)]*(g_.)], x\_Symbol] := \text{Simp}[a*\text{Sqrt}[1 + \cos[e + f*x]]*(\text{Sqrt}[a + b*\sin[e + f*x]]/(a + a*\cos[e + f*x] + b*\sin[e + f*x])) \text{Int}[\text{Sqrt}[1 + \cos[e + f*x]]/\text{Sqrt}[g*\cos[e + f*x]], x], x] + \text{Simp}[b*\text{Sqrt}[1 + \cos[e + f*x]]*(\text{Sqrt}[a + b*\sin[e + f*x]]/(a + a*\cos[e + f*x] + b*\sin[e + f*x])) \text{Int}[\sin[e + f*x]/(\text{Sqrt}[g*\cos[e + f*x]]*\text{Sqrt}[1 + \cos[e + f*x]]), x], x] /;$   
 $\text{FreeQ}\{a, b, e, f, g\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
3157.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)])^m, x\_Symbol] := \text{Simp}[(-b)*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^{m-1}/(f*g*(m+p))), x] + \text{Simp}[a*((2*m + p - 1)/(m + p)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{m-1}, x], x] /;$   
 $\text{FreeQ}\{a, b, e, f, g, m, p\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[m, 0] \ \&\& \ \text{NeQ}[m + p, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*p]$

3158.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)])^m, x\_Symbol] \rightarrow \text{Simp}[g*(g*\cos[e + f*x])^{p-1}*((a + b*\sin[e + f*x])^{m+1}/(b*f*(m+p))), x] + \text{Simp}[g^{2*((p-1)/(a*(m+p)))} \text{Int}[(g*\cos[e + f*x])^{p-2}*(a + b*\sin[e + f*x])^{m+1}, x], x] /; \text{FreeQ}\{a, b, e, f, g\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{GtQ}[p, 1] \ \&\& \ (\text{GtQ}[m, -2] \ || \ \text{EqQ}[2*m + p + 1, 0] \ || \ (\text{EqQ}[m, -2] \ \&\& \ \text{IntegerQ}[p])) \ \&\& \ \text{NeQ}[m + p, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*p]$
3159.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)])^m, x\_Symbol] \rightarrow \text{Simp}[2*g*(g*\cos[e + f*x])^{p-1}*((a + b*\sin[e + f*x])^{m+1}/(b*f*(2*m + p + 1))), x] + \text{Simp}[g^{2*((p-1)/(b^{2*(2*m + p + 1)}))} \text{Int}[(g*\cos[e + f*x])^{p-2}*(a + b*\sin[e + f*x])^{m+2}, x], x] /; \text{FreeQ}\{a, b, e, f, g\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{LeQ}[m, -2] \ \&\& \ \text{GtQ}[p, 1] \ \&\& \ \text{NeQ}[2*m + p + 1, 0] \ \&\& \ !\text{LtQ}[m + p + 1, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*p]$
3160.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)])^m, x\_Symbol] \rightarrow \text{Simp}[b*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^m/(a*f*g*(2*m + p + 1))), x] + \text{Simp}[(m + p + 1)/(a*(2*m + p + 1)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{m+1}, x], x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{NeQ}[2*m + p + 1, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*p]$
3161.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p/((a_) + (b_.)\sin[(e_.) + (f_.)(x_)]), x\_Symbol] \rightarrow \text{Simp}[g*((g*\cos[e + f*x])^{p-1}/(b*f*(p-1))), x] + \text{Simp}[g^2/a \text{Int}[(g*\cos[e + f*x])^{p-2}, x], x] /; \text{FreeQ}\{a, b, e, f, g\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[p, 1] \ \&\& \ \text{IntegerQ}[2*p]$
3162.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p/((a_) + (b_.)\sin[(e_.) + (f_.)(x_)]), x\_Symbol] \rightarrow \text{Simp}[b*((g*\cos[e + f*x])^{p+1}/(a*f*g*(p-1)*(a + b*\sin[e + f*x]))), x] + \text{Simp}[p/(a*(p-1)) \text{Int}[(g*\cos[e + f*x])^p, x], x] /; \text{FreeQ}\{a, b, e, f, g, p\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ !\text{GeQ}[p, 1] \ \&\& \ \text{IntegerQ}[2*p]$
3163.  $\text{Int}[\text{Sqrt}[\cos[(e_.) + (f_.)(x_)]*(g_.)]/\text{Sqrt}[(a_) + (b_.)\sin[(e_.) + (f_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[g*\text{Sqrt}[1 + \text{Cos}[e + f*x]]*(\text{Sqrt}[a + b*\sin[e + f*x]]/(a + a*\text{Cos}[e + f*x] + b*\sin[e + f*x])), \text{Int}[\text{Sqrt}[1 + \text{Cos}$



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[e + f*x]]/Sqrt[g*Cos[e + f*x]], x], x] - Simp[g*Sqrt[1 + Cos[e + f*x]]
]*(Sqrt[a + b*Sin[e + f*x]]/(b + b*Cos[e + f*x] + a*Sin[e + f*x])) Int
nt[Sin[e + f*x]/(Sqrt[g*Cos[e + f*x]]*Sqrt[1 + Cos[e + f*x]]), x], x]
/; FreeQ[{a, b, e, f, g}, x] && EqQ[a^2 - b^2, 0]

3164. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(3/2)/Sqrt[(a_) + (b_.)*sin[(e_.)
+ (f_.)*(x_)]], x_Symbol] := Simp[g*Sqrt[g*Cos[e + f*x]]*(Sqrt[a + b*S
in[e + f*x]]/(b*f)), x] + Simp[g^2/(2*a) Int[Sqrt[a + b*Sin[e + f*x]
]/Sqrt[g*Cos[e + f*x]], x], x] /; FreeQ[{a, b, e, f, g}, x] && EqQ[a^2
- b^2, 0]

3165. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)/Sqrt[(a_) + (b_.)*sin[(e_.) +
(f_.)*(x_)]], x_Symbol] := Simp[-2*b*((g*Cos[e + f*x])^(p + 1)/(f*g*(
2*p - 1)*(a + b*Sin[e + f*x])^(3/2))), x] + Simp[2*a*((p - 2)/(2*p - 1
)) Int[(g*Cos[e + f*x])^p/(a + b*Sin[e + f*x])^(3/2), x], x] /; Free
Q[{a, b, e, f, g}, x] && EqQ[a^2 - b^2, 0] && GtQ[p, 2] && IntegerQ[2*
p]

3166. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)/Sqrt[(a_) + (b_.)*sin[(e_.) +
(f_.)*(x_)]], x_Symbol] := Simp[(-b)*((g*Cos[e + f*x])^(p + 1)/(a*f*g
*(p + 1)*Sqrt[a + b*Sin[e + f*x]])), x] + Simp[a*((2*p + 1)/(2*g^2*(p
+ 1))) Int[(g*Cos[e + f*x])^(p + 2)/(a + b*Sin[e + f*x])^(3/2), x],
x] /; FreeQ[{a, b, e, f, g}, x] && EqQ[a^2 - b^2, 0] && LtQ[p, -1] &&
IntegerQ[2*p]

3167. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_
.)*(x_)])^(m_.), x_Symbol] := Simp[a^m*((g*Cos[e + f*x])^(p + 1)/(f*g*
(1 + Sin[e + f*x])^((p + 1)/2)*(1 - Sin[e + f*x])^((p + 1)/2))) Subst
[Int[(1 + (b/a)*x)^(m + (p - 1)/2)*(1 - (b/a)*x)^((p - 1)/2), x], x,
Sin[e + f*x]], x] /; FreeQ[{a, b, e, f, g, p}, x] && EqQ[a^2 - b^2, 0]
&& IntegerQ[m]

3168. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_
.)*(x_)])^(m_.), x_Symbol] := Simp[a^2*((g*Cos[e + f*x])^(p + 1)/(f*g*
(a + b*Sin[e + f*x])^((p + 1)/2)*(a - b*Sin[e + f*x])^((p + 1)/2)))
Subst[Int[(a + b*x)^(m + (p - 1)/2)*(a - b*x)^((p - 1)/2), x], x, Sin[
e + f*x]], x] /; FreeQ[{a, b, e, f, g, m, p}, x] && EqQ[a^2 - b^2, 0]

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&& !IntegerQ[m]

3169. $\text{Int}[(\cos[e + f x] + (f x) \sin[e + f x])^m (a + b \sin[e + f x])^p, x]$ \rightarrow $\text{Simp}[(-g \cos[e + f x])^{p+1} (a + b \sin[e + f x])^m / (f g^{p+1}), x] + \text{Simp}[1 / (g^{2(p+1)}) \text{Int}[(g \cos[e + f x])^{p+2} (a + b \sin[e + f x])^{m-1} (a(p+2) + b(m+p+2) \sin[e + f x]), x], x] /;$ $\text{FreeQ}\{a, b, e, f, g, x\}$ && $\text{NeQ}[a^2 - b^2, 0]$ && $\text{LtQ}[0, m, 1]$ && $\text{LtQ}[p, -1]$ && $(\text{IntegersQ}[2m, 2p] \parallel \text{IntegerQ}[m])$
3170. $\text{Int}[(\cos[e + f x] + (f x) \sin[e + f x])^m (a + b \sin[e + f x])^p, x]$ \rightarrow $\text{Simp}[(-g \cos[e + f x])^{p+1} (a + b \sin[e + f x])^{m-1} (b + a \sin[e + f x]) / (f g^{p+1}), x] + \text{Simp}[1 / (g^{2(p+1)}) \text{Int}[(g \cos[e + f x])^{p+2} (a + b \sin[e + f x])^{m-2} (b^2(m-1) + a^2(p+2) + a b(m+p+1) \sin[e + f x]), x], x] /;$ $\text{FreeQ}\{a, b, e, f, g, x\}$ && $\text{NeQ}[a^2 - b^2, 0]$ && $\text{GtQ}[m, 1]$ && $\text{LtQ}[p, -1]$ && $(\text{IntegersQ}[2m, 2p] \parallel \text{IntegerQ}[m])$
3171. $\text{Int}[(\cos[e + f x] + (f x) \sin[e + f x])^m (a + b \sin[e + f x])^p, x]$ \rightarrow $\text{Simp}[(-b) (g \cos[e + f x])^{p+1} (a + b \sin[e + f x])^{m-1} / (f g^{m+p}), x] + \text{Simp}[1 / (m+p) \text{Int}[(g \cos[e + f x])^p (a + b \sin[e + f x])^{m-2} (b^2(m-1) + a^2(m+p) + a b(2m+p-1) \sin[e + f x]), x], x] /;$ $\text{FreeQ}\{a, b, e, f, g, p, x\}$ && $\text{NeQ}[a^2 - b^2, 0]$ && $\text{GtQ}[m, 1]$ && $\text{NeQ}[m+p, 0]$ && $(\text{IntegersQ}[2m, 2p] \parallel \text{IntegerQ}[m])$
3172. $\text{Int}[(\cos[e + f x] + (f x) \sin[e + f x])^m (a + b \sin[e + f x])^p, x]$ \rightarrow $\text{Simp}[g (g \cos[e + f x])^{p-1} (a + b \sin[e + f x])^{m+1} / (b f^{m+1}), x] + \text{Simp}[g^{2(p-1)} / (b(m+1)) \text{Int}[(g \cos[e + f x])^{p-2} (a + b \sin[e + f x])^{m+1} \sin[e + f x], x], x] /;$ $\text{FreeQ}\{a, b, e, f, g, x\}$ && $\text{NeQ}[a^2 - b^2, 0]$ && $\text{LtQ}[m, -1]$ && $\text{GtQ}[p, 1]$ && $\text{IntegersQ}[2m, 2p]$
3173. $\text{Int}[(\cos[e + f x] + (f x) \sin[e + f x])^m (a + b \sin[e + f x])^p, x]$ \rightarrow $\text{Simp}[(-b) (g \cos[e + f x])^{p+1} (a + b \sin[e + f x])^{m+1} / (f g (a^2 - b^2) (m+1)), x] + \text{Simp}[1 / ((a^2 - b^2) (m+1)) \text{Int}[(g \cos[e + f x])^p (a + b \sin[e + f x])^{m+1}]]$

- $(a*(m + 1) - b*(m + p + 2)*\sin[e + f*x]), x], x] /;$ FreeQ[{a, b, e, f, g, p}, x] && NeQ[a² - b², 0] && LtQ[m, -1] && IntegersQ[2*m, 2*p]
3174. Int[(cos[(e_.) + (f_.)*(x_.)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)]^(m_)), x_Symbol] := Simp[g*(g*cos[e + f*x])^(p - 1)*((a + b*Sin[e + f*x])^(m + 1)/(b*f*(m + p))), x] + Simp[g^2*((p - 1)/(b*(m + p))) Int[(g*cos[e + f*x])^(p - 2)*(a + b*Sin[e + f*x])^m*(b + a*Sin[e + f*x]), x], x] /; FreeQ[{a, b, e, f, g, m}, x] && NeQ[a² - b², 0] && GtQ[p, 1] && NeQ[m + p, 0] && IntegersQ[2*m, 2*p]
3175. Int[(cos[(e_.) + (f_.)*(x_.)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)]^(m_)), x_Symbol] := Simp[(g*cos[e + f*x])^(p + 1)*(a + b*Sin[e + f*x])^(m + 1)*((b - a*Sin[e + f*x])/(f*g*(a² - b²)*(p + 1))), x] + Simp[1/(g^2*(a² - b²)*(p + 1)) Int[(g*cos[e + f*x])^(p + 2)*(a + b*Sin[e + f*x])^m*(a²*(p + 2) - b²*(m + p + 2) + a*b*(m + p + 3)*Sin[e + f*x]), x], x] /; FreeQ[{a, b, e, f, g, m}, x] && NeQ[a² - b², 0] && LtQ[p, -1] && IntegersQ[2*m, 2*p]
3176. Int[1/(Sqrt[cos[(e_.) + (f_.)*(x_.)]*(g_.)]*Sqrt[(a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)]]), x_Symbol] := Simp[2*Sqrt[2]*Sqrt[g*cos[e + f*x]]*(Sqrt[(a + b*Sin[e + f*x])/(a - b)*(1 - Sin[e + f*x])])/(f*g*Sqrt[a + b*Sin[e + f*x]]*Sqrt[(1 + Cos[e + f*x] + Sin[e + f*x])/(1 + Cos[e + f*x] - Sin[e + f*x])]) Subst[Int[1/Sqrt[1 + (a + b)*(x^4/(a - b))], x], x, Sqrt[(1 + Cos[e + f*x] + Sin[e + f*x])/(1 + Cos[e + f*x] - Sin[e + f*x])]), x] /; FreeQ[{a, b, e, f, g}, x] && NeQ[a² - b², 0]
3177. Int[(cos[(e_.) + (f_.)*(x_.)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)]^(m_)), x_Symbol] := Simp[g*(g*cos[e + f*x])^(p - 1)*(1 - Sin[e + f*x])*(a + b*Sin[e + f*x])^(m + 1)*(((a - b))*((1 - Sin[e + f*x])/(a + b)*(1 + Sin[e + f*x])))^(m/2)/(f*(a + b)*(m + 1))*Hypergeometric2F1[m + 1, m/2 + 1, m + 2, 2*((a + b*Sin[e + f*x])/(a + b)*(1 + Sin[e + f*x]))], x] /; FreeQ[{a, b, e, f, g, m, p}, x] && NeQ[a² - b², 0] && EqQ[m + p + 1, 0]
3178. Int[(cos[(e_.) + (f_.)*(x_.)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)]^(m_)), x_Symbol] := Simp[(g*cos[e + f*x])^(p + 1)*((a + b*Sin[e + f*x])^(m + 1)/(f*g*(a - b)*(p + 1))), x] + Simp[a/(g^2*(a - b))

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Int[(g*cos[e + f*x])^(p + 2)*((a + b*sin[e + f*x])^m/(1 - Sin[e + f*x
]))], x], x] /; FreeQ[{a, b, e, f, g, m, p}, x] && NeQ[a^2 - b^2, 0] &&
EqQ[m + p + 2, 0]

3179. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_
.)*(x_)])^(m_), x_Symbol] := Simp[(g*cos[e + f*x])^(p + 1)*((a + b*sin
[e + f*x])^(m + 1)/(f*g*(a - b)*(p + 1))), x] + (-Simp[b*((m + p + 2)/
(g^2*(a - b)*(p + 1))) Int[(g*cos[e + f*x])^(p + 2)*(a + b*sin[e + f
x])^m, x], x] + Simp[a/(g^2(a - b)) Int[(g*cos[e + f*x])^(p + 2)*
(a + b*sin[e + f*x])^m/(1 - Sin[e + f*x]), x], x]) /; FreeQ[{a, b, e,
f, g, m, p}, x] && NeQ[a^2 - b^2, 0] && ILtQ[m + p + 2, 0]

3180. Int[Sqrt[cos[(e_.) + (f_.)*(x_)]*(g_.)]/((a_) + (b_.)*sin[(e_.) + (f_
.)*(x_)]), x_Symbol] := With[{q = Rt[-a^2 + b^2, 2]}, Simp[a*(g/(2*b))
Int[1/(Sqrt[g*cos[e + f*x]]*(q + b*cos[e + f*x])), x], x] + (-Simp[a
*(g/(2*b)) Int[1/(Sqrt[g*cos[e + f*x]]*(q - b*cos[e + f*x])), x], x]
+ Simp[b*(g/f) Subst[Int[Sqrt[x]/(g^2*(a^2 - b^2) + b^2*x^2), x], x,
g*cos[e + f*x], x]]) /; FreeQ[{a, b, e, f, g}, x] && NeQ[a^2 - b^2,
0]

3181. Int[1/(Sqrt[cos[(e_.) + (f_.)*(x_)]*(g_.)]*((a_) + (b_.)*sin[(e_.) + (
f_.)*(x_)])), x_Symbol] := With[{q = Rt[-a^2 + b^2, 2]}, Simp[-a/(2*q)
Int[1/(Sqrt[g*cos[e + f*x]]*(q + b*cos[e + f*x])), x], x] + (Simp[b
(g/f) Subst[Int[1/(Sqrt[x](g^2*(a^2 - b^2) + b^2*x^2)), x], x, g*C
os[e + f*x], x] - Simp[a/(2*q) Int[1/(Sqrt[g*cos[e + f*x]]*(q - b*C
os[e + f*x])), x], x]]) /; FreeQ[{a, b, e, f, g}, x] && NeQ[a^2 - b^2,
0]

3182. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_
.)*(x_)])^(m_), x_Symbol] := Simp[g*(g*cos[e + f*x])^(p - 1)*((a + b*S
in[e + f*x])^(m + 1)/(b*f*(m + p)*((-b)*((1 - Sin[e + f*x])/(a + b*sin
[e + f*x])))^(p - 1)/2)*(b*((1 + Sin[e + f*x])/(a + b*sin[e + f*x]))
^((p - 1)/2))*AppellF1[-p - m, (1 - p)/2, (1 - p)/2, 1 - p - m, (a +
b)/(a + b*sin[e + f*x]), (a - b)/(a + b*sin[e + f*x]), x] /; FreeQ[{a
, b, e, f, g, p}, x] && NeQ[a^2 - b^2, 0] && ILtQ[m, 0] && !IGtQ[m +
p + 1, 0]

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3183.  $\text{Int}[(\cos[e + f x] + (f x) \sin[e + f x])^m (a + b \sin[e + f x])^p, x]$   $\rightarrow$   $\text{Simp}[g^m (g \cos[e + f x])^{p-1} / (f (1 - (a + b \sin[e + f x]) / (a - b))^{(p-1)/2} (1 - (a + b \sin[e + f x]) / (a + b))^{(p-1)/2})] \text{Subst}[\text{Int}[(-b/(a - b) - b(x/(a - b)))^{(p-1)/2} (b/(a + b) - b(x/(a + b)))^{(p-1)/2} (a + b x)^m, x], x, \sin[e + f x], x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x \&\& \text{NeQ}[a^2 - b^2, 0] \&\& !\text{IGtQ}[m, 0]$
3184.  $\text{Int}[(g \sec[e + f x] + (f x) \tan[e + f x])^m (a + b \sin[e + f x])^p, x]$   $\rightarrow$   $\text{Simp}[g^{2 \text{IntPart}[p]} (g \cos[e + f x])^{\text{FracPart}[p]} \text{Int}[(a + b \sin[e + f x])^m / (g \cos[e + f x])^p, x], x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x \&\& !\text{IntegerQ}[p]$
3185.  $\text{Int}[(g \tan[e + f x] + (f x) \sec[e + f x])^p / (a + b \sin[e + f x]), x]$   $\rightarrow$   $\text{Simp}[1/a \text{Int}[\text{Sec}[e + f x]^2 (g \tan[e + f x])^p, x], x] - \text{Simp}[1/(b g) \text{Int}[\text{Sec}[e + f x] (g \tan[e + f x])^{p+1}, x], x] /; \text{FreeQ}\{a, b, e, f, g, p\}, x \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[p, -1]$
3186.  $\text{Int}[(a + b \sin[e + f x])^m \tan[e + f x]^p, x]$   $\rightarrow$   $\text{Simp}[1/f \text{Subst}[\text{Int}[x^p ((a + x)^{m-(p+1)/2} / (a - x)^{(p+1)/2}), x], x, b \sin[e + f x], x] /; \text{FreeQ}\{a, b, e, f, m\}, x \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[(p+1)/2]$
3187.  $\text{Int}[(a + b \sin[e + f x])^m \tan[e + f x]^p, x]$   $\rightarrow$   $\text{Simp}[a^p \text{Int}[\sin[e + f x]^p / (a - b \sin[e + f x])^m, x], x] /; \text{FreeQ}\{a, b, e, f\}, x \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerSqrt}[m, p] \&\& \text{EqQ}[p, 2m]$
3188.  $\text{Int}[(a + b \sin[e + f x])^m \tan[e + f x]^p, x]$   $\rightarrow$   $\text{Simp}[a^p \text{Int}[\text{ExpandIntegrand}[\sin[e + f x]^p ((a + b \sin[e + f x])^{m-p/2} / (a - b \sin[e + f x])^{p/2}), x], x], x] /; \text{FreeQ}\{a, b, e, f\}, x \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[m, p/2] \&\& (\text{LtQ}[p, 0] \parallel \text{GtQ}[m - p/2, 0])$

3189.  $\text{Int}[(a + (b \sin(e) + f x))^m (g \tan(e) + f x)^p, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(g \tan(e + f x))^p, (a + b \sin(e + f x))^m, x], x] /; \text{FreeQ}\{a, b, e, f, g, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[m, 0]$
3190.  $\text{Int}[(a + (b \sin(e) + f x))^m (g \tan(e) + f x)^p, x\_Symbol] \rightarrow \text{Simp}[a^{2m} \text{Int}[\text{ExpandIntegrand}[(g \tan(e + f x))^p / \text{Sec}[e + f x]^m, (a \text{Sec}[e + f x] - b \tan(e + f x))^{-m}], x], x] /; \text{FreeQ}\{a, b, e, f, g, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{ILtQ}[m, 0]$
3191.  $\text{Int}[(a + (b \sin(e) + f x))^m \tan(e) + f x]^2, x\_Symbol] \rightarrow \text{Simp}[b((a + b \sin(e + f x))^m / (a f (2m - 1) \cos(e + f x))), x] - \text{Simp}[1/(a^2 (2m - 1)) \text{Int}[(a + b \sin(e + f x))^{m+1} ((a^m - b(2m - 1) \sin(e + f x)) / \cos(e + f x)^2), x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{IntegerQ}[m] \&\& \text{LtQ}[m, 0]$
3192.  $\text{Int}[(a + (b \sin(e) + f x))^m \tan(e) + f x]^2, x\_Symbol] \rightarrow \text{Simp}[-(a + b \sin(e + f x))^{m+1} / (b f m \cos(e + f x)), x] + \text{Simp}[1/(b m) \text{Int}[(a + b \sin(e + f x))^m ((b(m + 1) + a \sin(e + f x)) / \cos(e + f x)^2), x], x] /; \text{FreeQ}\{a, b, e, f, m\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{IntegerQ}[m] \&\& !\text{LtQ}[m, 0]$
3193.  $\text{Int}[(a + (b \sin(e) + f x))^m \tan(e) + f x]^4, x\_Symbol] \rightarrow \text{Int}[(a + b \sin(e + f x))^m, x] - \text{Int}[(a + b \sin(e + f x))^m ((1 - 2 \sin(e + f x)^2) / \cos(e + f x)^4), x] /; \text{FreeQ}\{a, b, e, f, m\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m - 1/2]$
3194.  $\text{Int}[(a + (b \sin(e) + f x))^m / \tan(e) + f x]^2, x\_Symbol] \rightarrow \text{Simp}[-(a + b \sin(e + f x))^{m+1} / (a f \tan(e + f x)), x] + \text{Simp}[1/b^2 \text{Int}[(a + b \sin(e + f x))^{m+1} ((b m - a(m + 1)) \sin(e + f x)) / \sin(e + f x)], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m - 1/2] \&\& \text{LtQ}[m, -1]$
3195.  $\text{Int}[(a + (b \sin(e) + f x))^m / \tan(e) + f x]^2, x\_Symbol] \rightarrow \text{Simp}[-(a + b \sin(e + f x))^m / (f \tan(e + f x)), x] + \text{Simp}[1/a \text{Int}[(a + b \sin(e + f x))^m ((b m - a(m + 1)) \sin(e + f x))], x]$

- $$\text{/Sin}[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, e, f, m\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[m - 1/2] \ \&\& \ \text{!LtQ}[m, -1]$$
3196.  $\text{Int}[\text{((a\_)} + \text{(b\_)}*\text{sin}[\text{(e\_)} + \text{(f\_)}*(x\_)]\text{)}^{\text{(m\_)}}/\text{tan}[\text{(e\_)} + \text{(f\_)}*(x\_)]^4, x\_Symbol] \text{:>} \text{Simp}[-2/(a*b) \ \text{Int}[(a + b*\text{Sin}[e + f*x])^{\text{(m + 2)}}/\text{Sin}[e + f*x]^3, x], x] + \text{Simp}[1/a^2 \ \text{Int}[(a + b*\text{Sin}[e + f*x])^{\text{(m + 2)}}*((1 + \text{Sin}[e + f*x]^2)/\text{Sin}[e + f*x]^4), x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[m - 1/2] \ \&\& \ \text{LtQ}[m, -1]$
3197.  $\text{Int}[\text{((a\_)} + \text{(b\_)}*\text{sin}[\text{(e\_)} + \text{(f\_)}*(x\_)]\text{)}^{\text{(m\_)}}/\text{tan}[\text{(e\_)} + \text{(f\_)}*(x\_)]^4, x\_Symbol] \text{:>} \text{Int}[(a + b*\text{Sin}[e + f*x])^m, x] + \text{Int}[(a + b*\text{Sin}[e + f*x])^m*((1 - 2*\text{Sin}[e + f*x]^2)/\text{Sin}[e + f*x]^4), x] /; \text{FreeQ}[\{a, b, e, f, m\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[m - 1/2] \ \&\& \ \text{!LtQ}[m, -1]$
3198.  $\text{Int}[\text{((a\_)} + \text{(b\_)}*\text{sin}[\text{(e\_)} + \text{(f\_)}*(x\_)]\text{)}^{\text{(m\_)}}*\text{tan}[\text{(e\_)} + \text{(f\_)}*(x\_)]^{\text{(p\_)}}, x\_Symbol] \text{:>} \text{Simp}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(\text{Sqrt}[a - b*\text{Sin}[e + f*x]])/(\text{b*f*Cos}[e + f*x])) \ \text{Subst}[\text{Int}[x^p*((a + x)^{\text{(m - (p + 1)/2)}}/(a - x)^{\text{(p + 1)/2}}), x], x, \text{b*Sin}[e + f*x]], x] /; \text{FreeQ}[\{a, b, e, f, m\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{!IntegerQ}[m] \ \&\& \ \text{IntegerQ}[p/2]$
3199.  $\text{Int}[\text{((a\_)} + \text{(b\_)}*\text{sin}[\text{(e\_)} + \text{(f\_)}*(x\_)]\text{)}^{\text{(m\_)}}*(\text{(g\_)}*\text{tan}[\text{(e\_)} + \text{(f\_)}*(x\_)]\text{)}^{\text{(p\_)}}, x\_Symbol] \text{:>} \text{Simp}[(\text{g*Tan}[e + f*x])^{\text{(p + 1)}}*(a - b*\text{Sin}[e + f*x])^{\text{(p + 1)/2}}*((a + b*\text{Sin}[e + f*x])^{\text{(p + 1)/2}}/(\text{f*g*}(b*\text{Sin}[e + f*x])^{\text{(p + 1)}})) \ \text{Subst}[\text{Int}[x^p*((a + x)^{\text{(m - (p + 1)/2)}}/(a - x)^{\text{(p + 1)/2}}), x], x, \text{b*Sin}[e + f*x]], x] /; \text{FreeQ}[\{a, b, e, f, g, m, p\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{!IntegerQ}[m] \ \&\& \ \text{!IntegerQ}[p]$
3200.  $\text{Int}[\text{((a\_)} + \text{(b\_)}*\text{sin}[\text{(e\_)} + \text{(f\_)}*(x\_)]\text{)}^{\text{(m\_)}}*\text{tan}[\text{(e\_)} + \text{(f\_)}*(x\_)]^{\text{(p\_)}}, x\_Symbol] \text{:>} \text{Simp}[1/f \ \text{Subst}[\text{Int}[(x^p*(a + x)^m)/(b^2 - x^2)^{\text{(p + 1)/2}}, x], x, \text{b*Sin}[e + f*x]], x] /; \text{FreeQ}[\{a, b, e, f, m\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[(p + 1)/2]$
3201.  $\text{Int}[\text{((a\_)} + \text{(b\_)}*\text{sin}[\text{(e\_)} + \text{(f\_)}*(x\_)]\text{)}^{\text{(m\_)}}*(\text{(g\_)}*\text{tan}[\text{(e\_)} + \text{(f\_)}*(x\_)]\text{)}^{\text{(p\_)}}, x\_Symbol] \text{:>} \text{Int}[\text{ExpandIntegrand}[(\text{g*Tan}[e + f*x])^p, (a + b*\text{Sin}[e + f*x])^m, x], x] /; \text{FreeQ}[\{a, b, e, f, g, p\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IGtQ}[m, 0]$

3202.  $\text{Int}[\left((a_{\_}) + (b_{\_})\sin[(e_{\_}) + (f_{\_})x]\right)^{m_{\_}}/\tan[(e_{\_}) + (f_{\_})x]^2, x_{\text{Symbol}}] \rightarrow \text{Int}[(a + b\sin[e + fx])^m((1 - \sin[e + fx]^2)/\sin[e + fx]^2), x] /; \text{FreeQ}\{a, b, e, f, m\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
3203.  $\text{Int}[\left((a_{\_}) + (b_{\_})\sin[(e_{\_}) + (f_{\_})x]\right)^{m_{\_}}/\tan[(e_{\_}) + (f_{\_})x]^4, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-\cos[e + fx])((a + b\sin[e + fx])^{m+1}/(3af\sin[e + fx]^3)), x] + (-\text{Simp}[(3a^2 + b^2(m-2))\cos[e + fx]((a + b\sin[e + fx])^{m+1}/(3a^2bf(m+1)\sin[e + fx]^2)), x] - \text{Simp}[1/(3a^2b(m+1)) \text{Int}[(a + b\sin[e + fx])^{m+1}/\sin[e + fx]^3]*\text{Simp}[6a^2 - b^2(m-1)(m-2) + ab(m+1)\sin[e + fx] - (3a^2 - b^2m(m-2))\sin[e + fx]^2, x], x], x]) /; \text{FreeQ}\{a, b, e, f\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{IntegerQ}[2m]$
3204.  $\text{Int}[\left((a_{\_}) + (b_{\_})\sin[(e_{\_}) + (f_{\_})x]\right)^{m_{\_}}/\tan[(e_{\_}) + (f_{\_})x]^4, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-\cos[e + fx])((a + b\sin[e + fx])^{m+1}/(3af\sin[e + fx]^3)), x] + (-\text{Simp}[b(m-2)\cos[e + fx]((a + b\sin[e + fx])^{m+1}/(6a^2f\sin[e + fx]^2)), x] - \text{Simp}[1/(6a^2) \text{Int}[(a + b\sin[e + fx])^m/\sin[e + fx]^2]*\text{Simp}[8a^2 - b^2(m-1)(m-2) + abm\sin[e + fx] - (6a^2 - b^2m(m-2))\sin[e + fx]^2, x], x], x]) /; \text{FreeQ}\{a, b, e, f, m\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{!LtQ}[m, -1] \ \&\& \ \text{IntegerQ}[2m]$
3205.  $\text{Int}[\left((a_{\_}) + (b_{\_})\sin[(e_{\_}) + (f_{\_})x]\right)^{m_{\_}}/\tan[(e_{\_}) + (f_{\_})x]^6, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-\cos[e + fx])((a + b\sin[e + fx])^{m+1}/(5af\sin[e + fx]^5)), x] + (\text{Simp}[\cos[e + fx]((a + b\sin[e + fx])^{m+1}/(bfm\sin[e + fx]^2)), x] + \text{Simp}[a\cos[e + fx]((a + b\sin[e + fx])^{m+1}/(b^2f(m-1)\sin[e + fx]^3)), x] - \text{Simp}[b(m-4)\cos[e + fx]((a + b\sin[e + fx])^{m+1}/(20a^2f\sin[e + fx]^4)), x] + \text{Simp}[1/(20a^2b^2m(m-1)) \text{Int}[(a + b\sin[e + fx])^m/\sin[e + fx]^4]*\text{Simp}[60a^4 - 44a^2b^2(m-1)m + b^4m(m-1)(m-3)(m-4) + abm(20a^2 - b^2m(m-1))\sin[e + fx] - (40a^4 + b^4m(m-1)(m-2)(m-4) - 20a^2b^2(m-1)(2m+1))\sin[e + fx]^2, x], x], x]) /; \text{FreeQ}\{a, b, e, f, m\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[m, 1] \ \&\& \ \text{IntegerQ}[2m]$
3206.  $\text{Int}[\left((g_{\_})\tan[(e_{\_}) + (f_{\_})x]\right)^{p_{\_}}/\left((a_{\_}) + (b_{\_})\sin[(e_{\_}) + (f_{\_})x]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[a/(a^2 - b^2) \text{Int}[(g\tan[e + fx])^p/\sin[e + fx], x], x]$



- $$\frac{\int (g \tan(e + fx))^p / \cos(e + fx) \sqrt{a + b \sin(e + fx)} dx}{\int (g \tan(e + fx))^{p-1} / \cos(e + fx) \sqrt{a + b \sin(e + fx)} dx} - \frac{\int (g \tan(e + fx))^p / \cos(e + fx) \sqrt{a + b \sin(e + fx)} dx}{\int (g \tan(e + fx))^{p-2} / (a + b \sin(e + fx)) \sqrt{a + b \sin(e + fx)} dx} /;$$

$$\text{FreeQ}\{a, b, e, f, g, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[2*p] \ \&\& \ \text{GtQ}[p, 1]$$
3207. 
$$\int ((g \tan(e + fx) + (f \cdot x))^p / ((a + b \sin(e + fx) + (f \cdot x))) dx, x\_Symbol] \rightarrow \text{Simp}[1/a \int (g \tan(e + fx))^p / \cos(e + fx) \sqrt{a + b \sin(e + fx)} dx, x] + (-\text{Simp}[b/(a^2 * g) \int (g \tan(e + fx))^{p+1} / \cos(e + fx) \sqrt{a + b \sin(e + fx)} dx, x] - \text{Simp}[(a^2 - b^2)/(a^2 * g^2) \int (g \tan(e + fx))^{p+2} / (a + b \sin(e + fx)) \sqrt{a + b \sin(e + fx)} dx, x]) /;$$

$$\text{FreeQ}\{a, b, e, f, g, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[2*p] \ \&\& \ \text{LtQ}[p, -1]$$
3208. 
$$\int \frac{\sqrt{(g \tan(e + fx) + (f \cdot x))}}{(a + b \sin(e + fx) + (f \cdot x)) \sqrt{\sin(e + fx)}} dx, x\_Symbol] \rightarrow \text{Simp}[\frac{\sqrt{\cos(e + fx)} * (\sqrt{g \tan(e + fx)}) / \sqrt{\sin(e + fx)}}{\int \frac{\sqrt{\sin(e + fx)}}{(\sqrt{\cos(e + fx)} * (a + b \sin(e + fx)))} dx, x} /;$$

$$\text{FreeQ}\{a, b, e, f, g, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$$
3209. 
$$\int \frac{1}{((a + b \sin(e + fx) + (f \cdot x)) * \sqrt{(g \tan(e + fx) + (f \cdot x)))}} dx, x\_Symbol] \rightarrow \text{Simp}[\frac{\sqrt{\sin(e + fx)}}{(\sqrt{\cos(e + fx)} * \sqrt{g \tan(e + fx)})} \int \frac{\sqrt{\cos(e + fx)}}{(\sqrt{\sin(e + fx)} * (a + b \sin(e + fx)))} dx, x] /;$$

$$\text{FreeQ}\{a, b, e, f, g, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$$
3210. 
$$\int ((a + b \sin(e + fx) + (f \cdot x))^m * \tan(e + fx) + (f \cdot x))^p dx, x\_Symbol] \rightarrow \int \text{ExpandIntegrand}[\sin(e + fx)^p * ((a + b \sin(e + fx))^m / (1 - \sin(e + fx)^2)^{p/2}), x, x] /;$$

$$\text{FreeQ}\{a, b, e, f, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[m, p/2]$$
3211. 
$$\int ((a + b \sin(e + fx) + (f \cdot x))^m * ((g \tan(e + fx) + (f \cdot x)))^p) dx, x\_Symbol] \rightarrow \text{Unintegrable}[(a + b \sin(e + fx))^m * (g \tan(e + fx))^p, x] /;$$

$$\text{FreeQ}\{a, b, e, f, g, m, p, x\}$$
3212. 
$$\int (\cot(e + fx) + (f \cdot x)) * (g \tan(e + fx))^p * ((a + b \sin(e + fx) + (f \cdot x)))^m dx, x\_Symbol] \rightarrow \text{Simp}[g^{2 * \text{IntPart}[p]} * (g \cot(e + fx))^{p - \text{IntPart}[p]} * \text{FracPart}[p] \int (a + b \sin(e + fx))^m / (g \tan(e + fx))^p dx, x] /;$$

$$\text{FreeQ}\{a, b, e, f, g, m, p, x\} \ \&\& \ !\text{Inte}$$

gerQ[p]

3213.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)\left((c_{\cdot}) + (d_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(2a_{\cdot}c_{\cdot} + b_{\cdot}d_{\cdot})(x/2), x] + (-\text{Simp}[(b_{\cdot}c_{\cdot} + a_{\cdot}d_{\cdot})(\text{Cos}[e + f_{\cdot}x]/f), x] - \text{Simp}[b_{\cdot}d_{\cdot}\text{Cos}[e + f_{\cdot}x](\text{Sin}[e + f_{\cdot}x]/(2f_{\cdot})), x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot}, 0]$
3214.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)/\left((c_{\cdot}) + (d_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[b_{\cdot}(x/d), x] - \text{Simp}[(b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot})/d \ \text{Int}[1/(c + d_{\cdot}\text{Sin}[e + f_{\cdot}x]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b_{\cdot}c_{\cdot} - a_{\cdot}d_{\cdot}, 0]$
3215.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[a^m c^m \ \text{Int}[\text{Cos}[e + f_{\cdot}x]^{(2m)}(c + d_{\cdot}\text{Sin}[e + f_{\cdot}x])^{(n - m)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \ \&\& \ \text{EqQ}[b_{\cdot}c_{\cdot} + a_{\cdot}d_{\cdot}, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ !(\text{IntegerQ}[n] \ \&\& \ ((\text{LtQ}[m, 0] \ \&\& \ \text{GtQ}[n, 0]) \ || \ \text{LtQ}[0, n, m] \ || \ \text{LtQ}[m, n, 0]))$
3216.  $\text{Int}[\text{Sqrt}[(a_{\cdot}) + (b_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})]/\text{Sqrt}[(c_{\cdot}) + (d_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[a_{\cdot}c_{\cdot}(\text{Cos}[e + f_{\cdot}x]/(\text{Sqrt}[a + b_{\cdot}\text{Sin}[e + f_{\cdot}x]]\text{Sqrt}[c + d_{\cdot}\text{Sin}[e + f_{\cdot}x]])) \ \text{Int}[\text{Cos}[e + f_{\cdot}x]/(c + d_{\cdot}\text{Sin}[e + f_{\cdot}x]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[b_{\cdot}c_{\cdot} + a_{\cdot}d_{\cdot}, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
3217.  $\text{Int}[\text{Sqrt}[(a_{\cdot}) + (b_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})]\left((c_{\cdot}) + (d_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2b_{\cdot}\text{Cos}[e + f_{\cdot}x]\left((c + d_{\cdot}\text{Sin}[e + f_{\cdot}x])^n/(f_{\cdot}(2n + 1)\text{Sqrt}[a + b_{\cdot}\text{Sin}[e + f_{\cdot}x]]\right), x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \ \&\& \ \text{EqQ}[b_{\cdot}c_{\cdot} + a_{\cdot}d_{\cdot}, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[n, -2^{(-1)}]$
3218.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2b_{\cdot}\text{Cos}[e + f_{\cdot}x]\left(a + b_{\cdot}\text{Sin}[e + f_{\cdot}x]\right)^{(m - 1)}\left((c + d_{\cdot}\text{Sin}[e + f_{\cdot}x])^n/(f_{\cdot}(2n + 1))\right), x] - \text{Simp}[b_{\cdot}\left((2m - 1)/(d_{\cdot}(2n + 1))\right) \ \text{Int}[(a + b_{\cdot}\text{Sin}[e + f_{\cdot}x])^{(m - 1)}(c + d_{\cdot}\text{Sin}[e + f_{\cdot}x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[b_{\cdot}c_{\cdot} + a_{\cdot}d_{\cdot}, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IGtQ}[m - 1/2, 0] \ \&\& \ \text{LtQ}[n, -1] \ \&\&$

- !(ILtQ[m + n, 0] && GtQ[2\*m + n + 1, 0])
3219. Int[((a\_) + (b\_)\*sin[(e\_) + (f\_)\*(x\_)])^(m\_)\*((c\_) + (d\_)\*sin[(e\_) + (f\_)\*(x\_)])^(n\_), x\_Symbol] :> Simp[(-b)\*Cos[e + f\*x]\*(a + b\*Sin[e + f\*x])^(m - 1)\*((c + d\*Sin[e + f\*x])^n/(f\*(m + n))), x] + Simp[a\*((2\*m - 1)/(m + n)) Int[(a + b\*Sin[e + f\*x])^(m - 1)\*(c + d\*Sin[e + f\*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 - b^2, 0] && IGtQ[m - 1/2, 0] && !LtQ[n, -1] && !(IGtQ[n - 1/2, 0] && LtQ[n, m]) && !(ILtQ[m + n, 0] && GtQ[2\*m + n + 1, 0])
3220. Int[1/(Sqrt[(a\_) + (b\_)\*sin[(e\_) + (f\_)\*(x\_)])\*Sqrt[(c\_) + (d\_)\*sin[(e\_) + (f\_)\*(x\_)])], x\_Symbol] :> Simp[Cos[e + f\*x]/(Sqrt[a + b\*Sin[e + f\*x]]\*Sqrt[c + d\*Sin[e + f\*x]]) Int[1/Cos[e + f\*x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 - b^2, 0]
3221. Int[((a\_) + (b\_)\*sin[(e\_) + (f\_)\*(x\_)])^(m\_)\*((c\_) + (d\_)\*sin[(e\_) + (f\_)\*(x\_)])^(n\_), x\_Symbol] :> Simp[b\*Cos[e + f\*x]\*(a + b\*Sin[e + f\*x])^m\*((c + d\*Sin[e + f\*x])^n/(a\*f\*(2\*m + 1))), x] /; FreeQ[{a, b, c, d, e, f, m, n}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 - b^2, 0] && EqQ[m + n + 1, 0] && NeQ[m, -2^(-1)]
3222. Int[((a\_) + (b\_)\*sin[(e\_) + (f\_)\*(x\_)])^(m\_)\*((c\_) + (d\_)\*sin[(e\_) + (f\_)\*(x\_)])^(n\_), x\_Symbol] :> Simp[b\*Cos[e + f\*x]\*(a + b\*Sin[e + f\*x])^m\*((c + d\*Sin[e + f\*x])^n/(a\*f\*(2\*m + 1))), x] + Simp[(m + n + 1)/(a\*(2\*m + 1)) Int[(a + b\*Sin[e + f\*x])^(m + 1)\*(c + d\*Sin[e + f\*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, m, n}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 - b^2, 0] && ILtQ[Simplify[m + n + 1], 0] && NeQ[m, -2^(-1)] && (SumSimplerQ[m, 1] || !SumSimplerQ[n, 1])
3223. Int[((a\_) + (b\_)\*sin[(e\_) + (f\_)\*(x\_)])^(m\_)\*((c\_) + (d\_)\*sin[(e\_) + (f\_)\*(x\_)])^(n\_), x\_Symbol] :> Simp[b\*Cos[e + f\*x]\*(a + b\*Sin[e + f\*x])^m\*((c + d\*Sin[e + f\*x])^n/(a\*f\*(2\*m + 1))), x] + Simp[(m + n + 1)/(a\*(2\*m + 1)) Int[(a + b\*Sin[e + f\*x])^(m + 1)\*(c + d\*Sin[e + f\*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 - b^2, 0] && LtQ[m, -1] && !LtQ[m, n, -1] && IntegersQ[2\*m, 2\*n]

3224.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[a^{\text{IntPart}[m]}c^{\text{IntPart}[m]}(a + b\sin[e + f*x])^{\text{FracPart}[m]}((c + d\sin[e + f*x])^{\text{FracPart}[m]}/\cos[e + f*x]^{(2*\text{FracPart}[m])}) \text{Int}[\cos[e + f*x]^{(2*m)}(c + d\sin[e + f*x])^{(n - m)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& (\text{FractionQ}[m] \parallel \neg \text{FractionQ}[n])$
3225.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^2/\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b^2)*(\cos[e + f*x]/(d*f)), x] + \text{Simp}[1/d \text{Int}[\text{Simp}[a^2*d - b*(b*c - 2*a*d)*\sin[e + f*x], x]/(c + d*\sin[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b*c - a*d, 0]$
3226.  $\text{Int}[1/\left(\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)*\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[b/(b*c - a*d) \text{Int}[1/(a + b*\sin[e + f*x]), x], x] - \text{Simp}[d/(b*c - a*d) \text{Int}[1/(c + d*\sin[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b*c - a*d, 0]$
3227.  $\text{Int}[\left((b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[c \text{Int}[(b*\sin[e + f*x])^m, x], x] + \text{Simp}[d/b \text{Int}[(b*\sin[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}\{b, c, d, e, f, m\}, x]$
3228.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-d)*\cos[e + f*x]*\left((a + b*\sin[e + f*x])^m/(f*(m + 1))\right), x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[a*d*m + b*c*(m + 1), 0]$
3229.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(b*c - a*d)*\cos[e + f*x]*\left((a + b*\sin[e + f*x])^m/(a*f*(2*m + 1))\right), x] + \text{Simp}[(a*d*m + b*c*(m + 1))/(a*b*(2*m + 1) \text{Int}[(a + b*\sin[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$
3230.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-d)*\cos[e + f*x]*\left((a + b*\sin[e + f*x])^m/(a*f*(2*m + 1))\right), x] + \text{Simp}[(a*d*m + b*c*(m + 1))/(a*b*(2*m + 1) \text{Int}[(a + b*\sin[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$

- $$\int \frac{f(x)^m}{f(x+1)}, x] + \text{Simp}[(a*d*m + b*c*(m + 1))/(b*(m + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^m, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\amp; \text{NeQ}[b*c - a*d, 0] \&\amp; \text{EqQ}[a^2 - b^2, 0] \&\amp; \text{!LtQ}[m, -2^{(-1)}]$$
3231. 
$$\text{Int}[(c_.) + (d_.)*\text{sin}[e_.) + (f_.)*(x_.)]/\text{Sqrt}[a_.) + (b_.)*\text{sin}[e_.) + (f_.)*(x_.)], x\_Symbol] :> \text{Simp}[(b*c - a*d)/b \text{Int}[1/\text{Sqrt}[a + b*\text{Sin}[e + f*x]], x], x] + \text{Simp}[d/b \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\amp; \text{NeQ}[b*c - a*d, 0] \&\amp; \text{NeQ}[a^2 - b^2, 0]$$
3232. 
$$\text{Int}[(a_.) + (b_.)*\text{sin}[e_.) + (f_.)*(x_.)]^{(m_.)}*((c_.) + (d_.)*\text{sin}[e_.) + (f_.)*(x_.)]), x\_Symbol] :> \text{Simp}[(-d)*\text{Cos}[e + f*x]*((a + b*\text{Sin}[e + f*x])^m/(f*(m + 1))), x] + \text{Simp}[1/(m + 1) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m - 1)}*\text{Simp}[b*d*m + a*c*(m + 1) + (a*d*m + b*c*(m + 1))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\amp; \text{NeQ}[b*c - a*d, 0] \&\amp; \text{NeQ}[a^2 - b^2, 0] \&\amp; \text{GtQ}[m, 0] \&\amp; \text{IntegerQ}[2*m]$$
3233. 
$$\text{Int}[(a_.) + (b_.)*\text{sin}[e_.) + (f_.)*(x_.)]^{(m_.)}*((c_.) + (d_.)*\text{sin}[e_.) + (f_.)*(x_.)]), x\_Symbol] :> \text{Simp}[(-b*c - a*d)*\text{Cos}[e + f*x]*((a + b*\text{Sin}[e + f*x])^{(m + 1)}/(f*(m + 1)*(a^2 - b^2))), x] + \text{Simp}[1/((m + 1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*\text{Simp}[(a*c - b*d)*(m + 1) - (b*c - a*d)*(m + 2)*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\amp; \text{NeQ}[b*c - a*d, 0] \&\amp; \text{NeQ}[a^2 - b^2, 0] \&\amp; \text{LtQ}[m, -1] \&\amp; \text{IntegerQ}[2*m]$$
3234. 
$$\text{Int}[(a_.) + (b_.)*\text{sin}[e_.) + (f_.)*(x_.)]^{(m_.)}*((c_.) + (d_.)*\text{sin}[e_.) + (f_.)*(x_.)]), x\_Symbol] :> \text{Simp}[c*(\text{Cos}[e + f*x]/(f*\text{Sqrt}[1 + \text{Sin}[e + f*x]]*\text{Sqrt}[1 - \text{Sin}[e + f*x]])) \text{Subst}[\text{Int}[(a + b*x)^m*(\text{Sqrt}[1 + (d/c)*x]/\text{Sqrt}[1 - (d/c)*x]), x], x, \text{Sin}[e + f*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\amp; \text{NeQ}[b*c - a*d, 0] \&\amp; \text{NeQ}[a^2 - b^2, 0] \&\amp; \text{!IntegerQ}[2*m] \&\amp; \text{EqQ}[c^2 - d^2, 0]$$
3235. 
$$\text{Int}[(a_.) + (b_.)*\text{sin}[e_.) + (f_.)*(x_.)]^{(m_.)}*((c_.) + (d_.)*\text{sin}[e_.) + (f_.)*(x_.)]), x\_Symbol] :> \text{Simp}[(b*c - a*d)/b \text{Int}[(a + b*\text{Sin}[e + f*x])^m, x], x] + \text{Simp}[d/b \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\amp; \text{NeQ}[b*c - a*d, 0] \&\amp; \text{NeQ}[a^2 - b^2, 0]$$

3236.  $\text{Int}[(d \cdot \sin(e) + f \cdot x)^n \cdot (a + b \cdot \sin(e) + f \cdot x)^m, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrig}[(a + b \cdot \sin[e + f \cdot x])^m \cdot (d \cdot \sin[e + f \cdot x])^n, x], x] /;$  FreeQ[{a, b, d, e, f, n}, x] && EqQ[a<sup>2</sup> - b<sup>2</sup>, 0] && IGtQ[m, 0] && RationalQ[n]
3237.  $\text{Int}[\sin(e) + f \cdot x)^2 \cdot (a + b \cdot \sin(e) + f \cdot x)^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[b \cdot \cos[e + f \cdot x] \cdot (a + b \cdot \sin[e + f \cdot x])^m / (a \cdot f \cdot (2m + 1)), x] - \text{Simp}[1 / (a^2 \cdot (2m + 1)) \text{Int}[(a + b \cdot \sin[e + f \cdot x])^{m+1} \cdot (a \cdot m - b \cdot (2m + 1) \cdot \sin[e + f \cdot x]), x], x] /;$  FreeQ[{a, b, e, f}, x] && EqQ[a<sup>2</sup> - b<sup>2</sup>, 0] && LtQ[m, -2<sup>(-1)</sup>]
3238.  $\text{Int}[\sin(e) + f \cdot x)^2 \cdot (a + b \cdot \sin(e) + f \cdot x)^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-\cos[e + f \cdot x]) \cdot (a + b \cdot \sin[e + f \cdot x])^{m+1} / (b \cdot f \cdot (m + 2)), x] + \text{Simp}[1 / (b \cdot (m + 2)) \text{Int}[(a + b \cdot \sin[e + f \cdot x])^m \cdot (b \cdot (m + 1) - a \cdot \sin[e + f \cdot x]), x], x] /;$  FreeQ[{a, b, e, f, m}, x] && EqQ[a<sup>2</sup> - b<sup>2</sup>, 0] && !LtQ[m, -2<sup>(-1)</sup>]
3239.  $\text{Int}[(a + b \cdot \sin(e) + f \cdot x)^m \cdot (c + d \cdot \sin(e) + f \cdot x)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[(b \cdot c - a \cdot d) \cdot \cos[e + f \cdot x] \cdot (a + b \cdot \sin[e + f \cdot x])^m \cdot (c + d \cdot \sin[e + f \cdot x]) / (a \cdot f \cdot (2m + 1)), x] + \text{Simp}[1 / (a \cdot b \cdot (2m + 1)) \text{Int}[(a + b \cdot \sin[e + f \cdot x])^{m+1} \cdot \text{Simp}[a \cdot c \cdot d \cdot (m - 1) + b \cdot (d^2 + c^2 \cdot (m + 1)) + d \cdot (a \cdot d \cdot (m - 1) + b \cdot c \cdot (m + 2)) \cdot \sin[e + f \cdot x], x], x], x] /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[b \cdot c - a \cdot d, 0] && EqQ[a<sup>2</sup> - b<sup>2</sup>, 0] && LtQ[m, -1]
3240.  $\text{Int}[(a + b \cdot \sin(e) + f \cdot x)^m \cdot (c + d \cdot \sin(e) + f \cdot x)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-d^2) \cdot \cos[e + f \cdot x] \cdot (a + b \cdot \sin[e + f \cdot x])^{m+1} / (b \cdot f \cdot (m + 2)), x] + \text{Simp}[1 / (b \cdot (m + 2)) \text{Int}[(a + b \cdot \sin[e + f \cdot x])^m \cdot \text{Simp}[b \cdot (d^2 \cdot (m + 1) + c^2 \cdot (m + 2)) - d \cdot (a \cdot d - 2 \cdot b \cdot c \cdot (m + 2)) \cdot \sin[e + f \cdot x], x], x], x] /;$  FreeQ[{a, b, c, d, e, f, m}, x] && NeQ[b \cdot c - a \cdot d, 0] && EqQ[a<sup>2</sup> - b<sup>2</sup>, 0] && !LtQ[m, -1]
3241.  $\text{Int}[(a + b \cdot \sin(e) + f \cdot x)^m \cdot (c + d \cdot \sin(e) + f \cdot x)^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b^2) \cdot (b \cdot c - a \cdot d) \cdot \cos[e + f \cdot x] \cdot (a + b \cdot \sin[e + f \cdot x])^{m-2} \cdot (c + d \cdot \sin[e + f \cdot x])^{n+1} / (d \cdot f \cdot (n + 1) \cdot (b \cdot c + a \cdot d)), x] + \text{Simp}[b^2 / (d \cdot (n + 1) \cdot (b \cdot c + a \cdot d)) \text{Int}[(a +$

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b*Sin[e + f*x])^(m - 2)*(c + d*Sin[e + f*x])^(n + 1)*Simp[a*c*(m - 2)
- b*d*(m - 2*n - 4) - (b*c*(m - 1) - a*d*(m + 2*n + 1))*Sin[e + f*x],
x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && EqQ
[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && GtQ[m, 1] && LtQ[n, -1] && (Int
egersQ[2*m, 2*n] || IntegerQ[m + 1/2] || (IntegerQ[m] && EqQ[c, 0]))

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3242. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b^2)\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^{(m - 2)}\left((c + d*\text{Sin}[e + f*x])^{(n + 1)} / (d*f*(m + n))\right), x] + \text{Simp}[1/(d*(m + n)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m - 2)}*(c + d*\text{Sin}[e + f*x])^n * \text{Simp}[a*b*c*(m - 2) + b^2*d*(n + 1) + a^2*d*(m + n) - b*(b*c*(m - 1) - a*d*(3*m + 2*n - 2))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{GtQ}[m, 1] \&\& \text{!LtQ}[n, -1] \&\& (\text{IntegersQ}[2*m, 2*n] || \text{IntegerQ}[m + 1/2] || (\text{IntegerQ}[m] \&\& \text{EqQ}[c, 0]))$
3243. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b*\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^m * \left((c + d*\text{Sin}[e + f*x])^n / (a*f*(2*m + 1))\right), x] - \text{Simp}[1/(a*b*(2*m + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*(c + d*\text{Sin}[e + f*x])^{(n - 1)} * \text{Simp}[a*d*n - b*c*(m + 1) - b*d*(m + n + 1)*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{LtQ}[0, n, 1] \&\& (\text{IntegersQ}[2*m, 2*n] || (\text{IntegerQ}[m] \&\& \text{EqQ}[c, 0]))$
3244. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(b*c - a*d)*\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^m * \left((c + d*\text{Sin}[e + f*x])^{(n - 1)} / (a*f*(2*m + 1))\right), x] + \text{Simp}[1/(a*b*(2*m + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*(c + d*\text{Sin}[e + f*x])^{(n - 2)} * \text{Simp}[b*(c^2*(m + 1) + d^2*(n - 1)) + a*c*d*(m - n + 1) + d*(a*d*(m - n + 1) + b*c*(m + n))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 1] \&\& (\text{IntegersQ}[2*m, 2*n] || (\text{IntegerQ}[m] \&\& \text{EqQ}[c, 0]))$
3245. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b^2*\text{Cos}[e + f*x]*(a + b*\text{Sin}[$

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e + f*x]^m*((c + d*Sin[e + f*x])^(n + 1)/(a*f*(2*m + 1)*(b*c - a*d)))
, x] + Simp[1/(a*(2*m + 1)*(b*c - a*d)) Int[(a + b*Sin[e + f*x])^(m
+ 1)*(c + d*Sin[e + f*x])^n*Simp[b*c*(m + 1) - a*d*(2*m + n + 2) + b*d
*(m + n + 2)*Sin[e + f*x], x], x], x] /; FreeQ[{a, b, c, d, e, f, n},
x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && L
tQ[m, -1] && !GtQ[n, 0] && (IntegersQ[2*m, 2*n] || (IntegerQ[m] && Eq
Q[c, 0]))

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3246.  $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}/\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b*c - a*d)*\text{Cos}[e + f*x]*\left((c + d*\text{Sin}[e + f*x])^{(n - 1)}/(a*f*(a + b*\text{Sin}[e + f*x]))\right), x] - \text{Simp}[d/(a*b) \text{Int}[(c + d*\text{Sin}[e + f*x])^{(n - 2)}*\text{Simp}[b*d*(n - 1) - a*c*n + (b*c*(n - 1) - a*d*n)*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{GtQ}[n, 1] \&\& (\text{IntegerQ}[2*n] || \text{EqQ}[c, 0])$
3247.  $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}/\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b^2)*\text{Cos}[e + f*x]*\left((c + d*\text{Sin}[e + f*x])^{(n + 1)}/(a*f*(b*c - a*d)*(a + b*\text{Sin}[e + f*x]))\right), x] + \text{Simp}[d/(a*(b*c - a*d)) \text{Int}[(c + d*\text{Sin}[e + f*x])^n*(a*n - b*(n + 1)*\text{Sin}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[n, 0] \&\& (\text{IntegerQ}[2*n] || \text{EqQ}[c, 0])$
3248.  $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}/\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b)*\text{Cos}[e + f*x]*\left((c + d*\text{Sin}[e + f*x])^n/(a*f*(a + b*\text{Sin}[e + f*x]))\right), x] + \text{Simp}[d*(n/(a*b)) \text{Int}[(c + d*\text{Sin}[e + f*x])^{(n - 1)}*(a - b*\text{Sin}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& (\text{IntegerQ}[2*n] || \text{EqQ}[c, 0])$
3249.  $\text{Int}[\text{Sqrt}[(a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]]*\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2*b*\text{Cos}[e + f*x]*\left((c + d*\text{Sin}[e + f*x])^n/(f*(2*n + 1)*\text{Sqrt}[a + b*\text{Sin}[e + f*x]])\right), x] + \text{Simp}[2*n*\left((b*c + a*d)/(b*(2*n + 1))\right) \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(c + d*\text{Sin}[e + f*x])^{(n - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{GtQ}[n, 0] \&\& \text{Integ}$



erQ[2\*n]

3250.  $\text{Int}[\text{Sqrt}[(a_) + (b_)\sin[(e_) + (f_)(x_)]]/((c_) + (d_)\sin[(e_) + (f_)(x_)])^{3/2}, x\_Symbol] \rightarrow \text{Simp}[-2*b^2*(\text{Cos}[e + f*x]/(f*(b*c + a*d)*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]])), x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$
3251.  $\text{Int}[\text{Sqrt}[(a_) + (b_)\sin[(e_) + (f_)(x_)]]*((c_) + (d_)\sin[(e_) + (f_)(x_)])^{n_}, x\_Symbol] \rightarrow \text{Simp}[(b*c - a*d)*\text{Cos}[e + f*x]*((c + d*\text{Sin}[e + f*x])^{n+1}/(f*(n+1)*(c^2 - d^2)*\text{Sqrt}[a + b*\text{Sin}[e + f*x]])), x] + \text{Simp}[(2*n + 3)*((b*c - a*d)/(2*b*(n+1)*(c^2 - d^2))) \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(c + d*\text{Sin}[e + f*x])^{n+1}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{NeQ}[2*n + 3, 0] \ \&\& \ \text{IntegerQ}[2*n]$
3252.  $\text{Int}[\text{Sqrt}[(a_) + (b_)\sin[(e_) + (f_)(x_)]]/((c_) + (d_)\sin[(e_) + (f_)(x_)]), x\_Symbol] \rightarrow \text{Simp}[-2*(b/f) \text{Subst}[\text{Int}[1/(b*c + a*d - d*x^2), x], x, b*(\text{Cos}[e + f*x]/\text{Sqrt}[a + b*\text{Sin}[e + f*x]])], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$
3253.  $\text{Int}[\text{Sqrt}[(a_) + (b_)\sin[(e_) + (f_)(x_)]]/\text{Sqrt}[(d_)\sin[(e_) + (f_)(x_)]], x\_Symbol] \rightarrow \text{Simp}[-2/f \text{Subst}[\text{Int}[1/\text{Sqrt}[1 - x^2/a], x], x, b*(\text{Cos}[e + f*x]/\text{Sqrt}[a + b*\text{Sin}[e + f*x]])], x] /; \text{FreeQ}\{a, b, d, e, f\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[d, a/b]$
3254.  $\text{Int}[\text{Sqrt}[(a_) + (b_)\sin[(e_) + (f_)(x_)]]/\text{Sqrt}[(c_) + (d_)\sin[(e_) + (f_)(x_)]], x\_Symbol] \rightarrow \text{Simp}[-2*(b/f) \text{Subst}[\text{Int}[1/(b + d*x^2), x], x, b*(\text{Cos}[e + f*x]/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]))], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$
3255.  $\text{Int}[\text{Sqrt}[(a_) + (b_)\sin[(e_) + (f_)(x_)]]*((c_) + (d_)\sin[(e_) + (f_)(x_)])^{n_}, x\_Symbol] \rightarrow \text{Simp}[a^2*(\text{Cos}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[a - b*\text{Sin}[e + f*x]])) \text{Subst}[\text{Int}[(c + d*x)^n/\text{Sqrt}[a - b*x], x], x, \text{Sin}[e + f*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\},$

- $x]$  && NeQ[b\*c - a\*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] &&  
 !IntegerQ[2\*n]
3256. Int[Sqrt[(c\_.) + (d\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]]/Sqrt[(a\_) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]], x\_Symbol] :> Simp[d/b Int[Sqrt[a + b\*Sin[e + f\*x]]/Sqrt[c + d\*Sin[e + f\*x]], x], x] + Simp[(b\*c - a\*d)/b Int[1/(Sqrt[a + b\*Sin[e + f\*x]]\*Sqrt[c + d\*Sin[e + f\*x]]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]
3257. Int[((c\_.) + (d\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(n\_)/Sqrt[(a\_) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]], x\_Symbol] :> Simp[-2\*d\*Cos[e + f\*x]\*((c + d\*Sin[e + f\*x])^(n - 1)/(f\*(2\*n - 1)\*Sqrt[a + b\*Sin[e + f\*x]]), x] - Simp[1/(b\*(2\*n - 1)) Int[((c + d\*Sin[e + f\*x])^(n - 2)/Sqrt[a + b\*Sin[e + f\*x]])\*Simp[a\*c\*d - b\*(2\*d^2\*(n - 1) + c^2\*(2\*n - 1)) + d\*(a\*d - b\*c\*(4\*n - 3))\*Sin[e + f\*x], x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && GtQ[n, 1] && IntegerQ[2\*n]
3258. Int[((c\_.) + (d\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(n\_)/Sqrt[(a\_) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]], x\_Symbol] :> Simp[(-d)\*Cos[e + f\*x]\*((c + d\*Sin[e + f\*x])^(n + 1)/(f\*(n + 1)\*(c^2 - d^2)\*Sqrt[a + b\*Sin[e + f\*x]]), x] - Simp[1/(2\*b\*(n + 1)\*(c^2 - d^2)) Int[(c + d\*Sin[e + f\*x])^(n + 1)\*(Simp[a\*d - 2\*b\*c\*(n + 1) + b\*d\*(2\*n + 3)\*Sin[e + f\*x], x]/Sqrt[a + b\*Sin[e + f\*x]]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && LtQ[n, -1] && IntegerQ[2\*n]
3259. Int[1/(Sqrt[(a\_) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]]\*((c\_.) + (d\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])), x\_Symbol] :> Simp[b/(b\*c - a\*d) Int[1/Sqrt[a + b\*Sin[e + f\*x]], x], x] - Simp[d/(b\*c - a\*d) Int[Sqrt[a + b\*Sin[e + f\*x]]/(c + d\*Sin[e + f\*x]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]
3260. Int[1/(Sqrt[(d\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]]\*Sqrt[(a\_) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]]), x\_Symbol] :> Simp[-Sqrt[2]/(Sqrt[a]\*f) Subst[Int[1/Sqrt[1 - x^2], x], x, b\*(Cos[e + f\*x]/(a + b\*Sin[e + f\*x]))], x] /; F

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reeQ[{a, b, d, e, f}, x] && EqQ[a^2 - b^2, 0] && EqQ[d, a/b] && GtQ[a,
0]

3261. Int[1/(Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)])*Sqrt[(c_) + (d_)*s
in[(e_) + (f_)*(x_)])], x_Symbol] := Simp[-2*(a/f) Subst[Int[1/(2*
b^2 - (a*c - b*d)*x^2), x], x, b*(Cos[e + f*x]/(Sqrt[a + b*Sin[e + f*x
])*Sqrt[c + d*Sin[e + f*x]])], x] /; FreeQ[{a, b, c, d, e, f}, x] &&
NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]

3262. Int[((a_) + (b_)*sin[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*sin[(e_
.) + (f_)*(x_)])^(n_), x_Symbol] := Simp[(-d)*Cos[e + f*x]*(a + b*Sin
[e + f*x])^m*((c + d*Sin[e + f*x])^(n - 1)/(f*(m + n))), x] + Simp[1/(
b*(m + n)) Int[(a + b*Sin[e + f*x])^m*(c + d*Sin[e + f*x])^(n - 2)*S
imp[d*(a*c*m + b*d*(n - 1)) + b*c^2*(m + n) + d*(a*d*m + b*c*(m + 2*n
- 1))*Sin[e + f*x], x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && N
eQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && GtQ[n, 1
] && IntegerQ[n]

3263. Int[((a_) + (b_)*sin[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*sin[(e_
.) + (f_)*(x_)])^(n_), x_Symbol] := Simp[a^m*(Cos[e + f*x]/(f*Sqrt[1
+ Sin[e + f*x]]*Sqrt[1 - Sin[e + f*x]])) Subst[Int[(1 + (b/a)*x)^(m
- 1/2)*((c + d*x)^n/Sqrt[1 - (b/a)*x]), x], x, Sin[e + f*x], x] /; F
reeQ[{a, b, c, d, e, f, n}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2,
0] && NeQ[c^2 - d^2, 0] && IntegerQ[m]

3264. Int[((d_)*sin[(e_) + (f_)*(x_)])^(n_)*((a_) + (b_)*sin[(e_) + (f_
.)*(x_)])^(m_), x_Symbol] := Simp[(-b)*(d/b)^n*(Cos[e + f*x]/(f*Sqrt[a
+ b*Sin[e + f*x]]*Sqrt[a - b*Sin[e + f*x]])) Subst[Int[(a - x)^n*((
2*a - x)^(m - 1/2)/Sqrt[x]), x], x, a - b*Sin[e + f*x], x] /; FreeQ[{
a, b, d, e, f, m, n}, x] && EqQ[a^2 - b^2, 0] && !IntegerQ[m] && GtQ[
a, 0] && GtQ[d/b, 0]

3265. Int[((d_)*sin[(e_) + (f_)*(x_)])^(n_)*((a_) + (b_)*sin[(e_) + (f_
.)*(x_)])^(m_), x_Symbol] := Simp[(d/b)^IntPart[n]*((d*Sin[e + f*x])^
FracPart[n]/(b*Sin[e + f*x])^FracPart[n]) Int[(a + b*Sin[e + f*x])^m
*(b*Sin[e + f*x])^n, x], x] /; FreeQ[{a, b, d, e, f, m, n}, x] && EqQ[
a^2 - b^2, 0] && !IntegerQ[m] && GtQ[a, 0] && !GtQ[d/b, 0]

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3266. $\text{Int}[(d_*)\sin(e_*) + (f_*)(x_*)]^{(n_*)}((a_*) + (b_*)\sin(e_*) + (f_*)(x_*))^{(m_*)}, x_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[m]}((a + b\sin[e + f*x])^{\text{FracPart}[m]}/(1 + (b/a)\sin[e + f*x])^{\text{FracPart}[m]}) \text{Int}[(1 + (b/a)\sin[e + f*x])^m(d\sin[e + f*x])^n, x], x] /; \text{FreeQ}\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m] \&\& \text{!GtQ}[a, 0]$
3267. $\text{Int}[(a_*) + (b_*)\sin(e_*) + (f_*)(x_*)]^{(m_*)}((c_*) + (d_*)\sin(e_*) + (f_*)(x_*))^{(n_*)}, x_Symbol] \rightarrow \text{Simp}[a^2(\text{Cos}[e + f*x]/(f\sqrt{a + b\sin[e + f*x]})\sqrt{a - b\sin[e + f*x]}) \text{Subst}[\text{Int}[(a + b*x)^{(m - 1/2)}((c + d*x)^n/\sqrt{a - b*x}), x], x, \text{Sin}[e + f*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{IntegerQ}[m]$
3268. $\text{Int}[(b_*)\sin(e_*) + (f_*)(x_*)]^{(m_*)}((c_*) + (d_*)\sin(e_*) + (f_*)(x_*))^{(n_*)}, x_Symbol] \rightarrow \text{Simp}[2*c*(d/b) \text{Int}[(b\sin[e + f*x])^{(m + 1)}, x], x] + \text{Int}[(b\sin[e + f*x])^m(c^2 + d^2\sin[e + f*x]^2), x] /; \text{FreeQ}\{b, c, d, e, f, m\}, x]$
3269. $\text{Int}[(a_*) + (b_*)\sin(e_*) + (f_*)(x_*)]^{(m_*)}((c_*) + (d_*)\sin(e_*) + (f_*)(x_*))^{(n_*)}, x_Symbol] \rightarrow \text{Simp}[(-b^2*c^2 - 2*a*b*c*d + a^2*d^2)*\text{Cos}[e + f*x]*((a + b\sin[e + f*x])^{(m + 1)}/(b*f*(m + 1)*(a^2 - b^2))), x] - \text{Simp}[1/(b*(m + 1)*(a^2 - b^2)) \text{Int}[(a + b\sin[e + f*x])^{(m + 1)}*\text{Simp}[b*(m + 1)*(2*b*c*d - a*(c^2 + d^2)) + (a^2*d^2 - 2*a*b*c*d*(m + 2) + b^2*(d^2*(m + 1) + c^2*(m + 2)))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
3270. $\text{Int}[(a_*) + (b_*)\sin(e_*) + (f_*)(x_*)]^{(m_*)}((c_*) + (d_*)\sin(e_*) + (f_*)(x_*))^{(n_*)}, x_Symbol] \rightarrow \text{Simp}[(-d^2)*\text{Cos}[e + f*x]*((a + b\sin[e + f*x])^{(m + 1)}/(b*f*(m + 2))), x] + \text{Simp}[1/(b*(m + 2)) \text{Int}[(a + b\sin[e + f*x])^m*\text{Simp}[b*(d^2*(m + 1) + c^2*(m + 2)) - d*(a*d - 2*b*c*(m + 2))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{!LtQ}[m, -1]$
3271. $\text{Int}[(a_*) + (b_*)\sin(e_*) + (f_*)(x_*)]^{(m_*)}((c_*) + (d_*)\sin(e_*) + (f_*)(x_*))^{(n_*)}, x_Symbol] \rightarrow \text{Simp}[(-b^2*c^2 - 2*a*b*c*d + a^2*d^2)*\text{Cos}[e + f*x]*((a + b\sin[e + f*x])^{(m + 1)}/(b*f*(m + 1)*(a^2 - b^2))), x] - \text{Simp}[1/(b*(m + 1)*(a^2 - b^2)) \text{Int}[(a + b\sin[e + f*x])^{(m + 1)}*\text{Simp}[b*(m + 1)*(2*b*c*d - a*(c^2 + d^2)) + (a^2*d^2 - 2*a*b*c*d*(m + 2) + b^2*(d^2*(m + 1) + c^2*(m + 2)))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m] \&\& \text{!GtQ}[a, 0]$

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2*d^2))*Cos[e + f*x]*(a + b*Sin[e + f*x])^(m - 2)*((c + d*Sin[e + f*x]
)^n + 1)/(d*f*(n + 1)*(c^2 - d^2))), x] + Simp[1/(d*(n + 1)*(c^2 - d^
2)) Int[(a + b*Sin[e + f*x])^(m - 3)*(c + d*Sin[e + f*x])^(n + 1)*Si
mp[b*(m - 2)*(b*c - a*d)^2 + a*d*(n + 1)*(c*(a^2 + b^2) - 2*a*b*d) + (
b*(n + 1)*(a*b*c^2 + c*d*(a^2 + b^2) - 3*a*b*d^2) - a*(n + 2)*(b*c - a
*d)^2)*Sin[e + f*x] + b*(b^2*(c^2 - d^2) - m*(b*c - a*d)^2 + d*n*(2*a*
b*c - d*(a^2 + b^2)))*Sin[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d,
e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2,
0] && GtQ[m, 2] && LtQ[n, -1] && (IntegerQ[m] || IntegersQ[2*m, 2*n])

3272. Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*sin[(e
.) + (f.)*(x_)])^(n_), x_Symbol] := Simp[(-b^2)*Cos[e + f*x]*(a + b*
Sin[e + f*x])^(m - 2)*((c + d*Sin[e + f*x])^(n + 1)/(d*f*(m + n))), x]
+ Simp[1/(d*(m + n)) Int[(a + b*Sin[e + f*x])^(m - 3)*(c + d*Sin[e
+ f*x])^n*Simp[a^3*d*(m + n) + b^2*(b*c*(m - 2) + a*d*(n + 1)) - b*(a
b*c - b^2*d*(m + n - 1) - 3*a^2*d*(m + n))*Sin[e + f*x] - b^2*(b*c*(m
- 1) - a*d*(3*m + 2*n - 2))*Sin[e + f*x]^2, x], x], x] /; FreeQ[{a, b,
c, d, e, f, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c
^2 - d^2, 0] && GtQ[m, 2] && (IntegerQ[m] || IntegersQ[2*m, 2*n]) &&
!(IGtQ[n, 2] && (!IntegerQ[m] || (EqQ[a, 0] && NeQ[c, 0])))

3273. Int[Sqrt[(d_.)*sin[(e_.) + (f_.)*(x_)]]/((a_.) + (b_.)*sin[(e_.) + (f_.
.)*(x_)])^(3/2), x_Symbol] := Simp[-2*a*d*(Cos[e + f*x]/(f*(a^2 - b^2)*
Sqrt[a + b*Sin[e + f*x]]*Sqrt[d*Sin[e + f*x]])), x] - Simp[d^2/(a^2 -
b^2) Int[Sqrt[a + b*Sin[e + f*x]]/(d*Sin[e + f*x])^(3/2), x], x] /;
FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0]

3274. Int[Sqrt[(c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]]/((a_.) + (b_.)*sin[(e_.
.) + (f_.)*(x_)])^(3/2), x_Symbol] := Simp[(c - d)/(a - b) Int[1/(Sqr
t[a + b*Sin[e + f*x]]*Sqrt[c + d*Sin[e + f*x]]), x], x] - Simp[(b*c -
a*d)/(a - b) Int[(1 + Sin[e + f*x])/((a + b*Sin[e + f*x])^(3/2)*Sqrt
[c + d*Sin[e + f*x]]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b
*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]

3275. Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*sin[(e
.) + (f.)*(x_)])^(n_), x_Symbol] := Simp[(-b)*Cos[e + f*x]*(a + b*Si
n[e + f*x])^(m + 1)*((c + d*Sin[e + f*x])^n/(f*(m + 1)*(a^2 - b^2))),

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x] + Simp[1/((m + 1)*(a^2 - b^2)) Int[(a + b*SIN[e + f*x])^(m + 1)*(
c + d*SIN[e + f*x])^(n - 1)*Simp[a*c*(m + 1) + b*d*n + (a*d*(m + 1) -
b*c*(m + 2))*SIN[e + f*x] - b*d*(m + n + 2)*SIN[e + f*x]^2, x], x], x]
/; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2
, 0] && NeQ[c^2 - d^2, 0] && LtQ[m, -1] && LtQ[0, n, 1] && IntegersQ[2
*m, 2*n]

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3276. $\text{Int}[\left(\frac{(d_.)\sin(e_.) + (f_.)x}{(a_.) + (b_.)\sin(e_.) + (f_.)x}\right)^{3/2}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{d}{b} \text{Int}\left[\frac{\sqrt{d\sin[e + fx]}}{\sqrt{a + b\sin[e + fx]}}\right], x\right] - \text{Simp}\left[\frac{a(d/b) \text{Int}\left[\sqrt{d\sin[e + fx]}\right]}{(a + b\sin[e + fx])^{3/2}}, x\right], x\right] /; \text{FreeQ}\{a, b, d, e, f\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0]$
3277. $\text{Int}[\left(\frac{(c_.) + (d_.)\sin(e_.) + (f_.)x}{(a_.) + (b_.)\sin(e_.) + (f_.)x}\right)^{3/2}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{d^2/b^2 \text{Int}\left[\frac{\sqrt{a + b\sin[e + fx]}}{\sqrt{c + d\sin[e + fx]}}\right], x\right] + \text{Simp}\left[\frac{(b*c - a*d)/b^2 \text{Int}\left[\frac{\text{Simp}[b*c + a*d + 2*b*d*\sin[e + fx], x]}{(a + b\sin[e + fx])^{3/2}}\right]}{2*\sqrt{c + d\sin[e + fx]}}\right], x\right] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3278. $\text{Int}[\left(\frac{(a_.) + (b_.)\sin(e_.) + (f_.)x}{(c_.) + (d_.)\sin(e_.) + (f_.)x}\right)^{m_.*((c_.) + (d_.)\sin(e_.) + (f_.)x)^{n_}}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{-(b*c - a*d)*\cos[e + fx]}{(a + b\sin[e + fx])^{m + 1} * ((c + d\sin[e + fx])^{n - 1} / (f*(m + 1) * (a^2 - b^2)))}, x\right] + \text{Simp}\left[\frac{1}{(m + 1)*(a^2 - b^2)} \text{Int}\left[(a + b\sin[e + fx])^{m + 1} * (c + d\sin[e + fx])^{n - 2} * \text{Simp}[c*(a*c - b*d)*(m + 1) + d*(b*c - a*d)*(n - 1) + (d*(a*c - b*d)*(m + 1) - c*(b*c - a*d)*(m + 2))*\sin[e + fx] - d*(b*c - a*d)*(m + n + 1)*\sin[e + fx]^2, x], x\right], x\right] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{LtQ}[1, n, 2] \&\& \text{IntegersQ}[2*m, 2*n]$
3279. $\text{Int}\left[\frac{1}{\sqrt{(d_.)\sin(e_.) + (f_.)x} * ((a_.) + (b_.)\sin(e_.) + (f_.)x)^{3/2}}, x_{\text{Symbol}}\right] \rightarrow \text{Simp}\left[2*b*(\cos[e + fx] / (f*(a^2 - b^2) * \sqrt{a + b\sin[e + fx]} * \sqrt{d\sin[e + fx]})), x\right] + \text{Simp}\left[\frac{d}{(a^2 - b^2) \text{Int}\left[\frac{(b + a\sin[e + fx])}{\sqrt{a + b\sin[e + fx]} * (d\sin[e + fx])^{3/2}}\right]}, x\right] /; \text{FreeQ}\{a, b, d, e, f\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0]$

3280. $\text{Int}[1/(((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_.)])^{3/2}*\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]]), x_Symbol] \rightarrow \text{Simp}[1/(a - b) \text{ Int}[1/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x], x] - \text{Simp}[b/(a - b) \text{ Int}[(1 + \text{Sin}[e + f*x])/((a + b*\text{Sin}[e + f*x])^{3/2}*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3281. $\text{Int}[(a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_.)]^{(m_.)}*((c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]^{(n_.)}), x_Symbol] \rightarrow \text{Simp}[(-b^2)*\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^{(m + 1)}*((c + d*\text{Sin}[e + f*x])^{(n + 1)}/(f*(m + 1)*(b*c - a*d)*(a^2 - b^2))), x] + \text{Simp}[1/((m + 1)*(b*c - a*d)*(a^2 - b^2)) \text{ Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*(c + d*\text{Sin}[e + f*x])^n*\text{Simp}[a*(b*c - a*d)*(m + 1) + b^2*d*(m + n + 2) - (b^2*c + b*(b*c - a*d)*(m + 1))*\text{Sin}[e + f*x] - b^2*d*(m + n + 3)*\text{Sin}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{IntegersQ}[2*m, 2*n] \&\& ((\text{EqQ}[a, 0] \&\& \text{IntegerQ}[m] \&\& !\text{IntegerQ}[n]) || !(\text{IntegerQ}[2*n] \&\& \text{LtQ}[n, -1] \&\& ((\text{IntegerQ}[n] \&\& !\text{IntegerQ}[m]) || \text{EqQ}[a, 0])))$
3282. $\text{Int}[\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]]/((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[d/b \text{ Int}[1/\text{Sqrt}[c + d*\text{Sin}[e + f*x]], x], x] + \text{Simp}[(b*c - a*d)/b \text{ Int}[1/((a + b*\text{Sin}[e + f*x])*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3283. $\text{Int}[(a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_.)]^{3/2}/((c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[b/d \text{ Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]], x], x] - \text{Simp}[(b*c - a*d)/d \text{ Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/(c + d*\text{Sin}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3284. $\text{Int}[1/(((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_.)])*\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]]), x_Symbol] \rightarrow \text{Simp}[(2/(f*(a + b)*\text{Sqrt}[c + d]))*\text{EllipticPi}[2*(b/(a + b)), (1/2)*(e - \text{Pi}/2 + f*x), 2*(d/(c + d))], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{GtQ}[c + d, 0]$

3285. $\text{Int}[1/(((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_.)])*\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]])], x_Symbol] \rightarrow \text{Simp}[(2/(f*(a - b)*\text{Sqrt}[c - d]))*\text{EllipticPi}[-2*(b/(a - b)), (1/2)*(e + \text{Pi}/2 + f*x), -2*(d/(c - d))], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0] \ \&\& \ \text{GtQ}[c - d, 0]$
3286. $\text{Int}[1/(((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_.)])*\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]])], x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[c + d*\sin[e + f*x]]/(c + d)]/\text{Sqrt}[c + d*\sin[e + f*x]] \ \text{Int}[1/((a + b*\sin[e + f*x])*\text{Sqrt}[c/(c + d) + (d/(c + d))*\sin[e + f*x]]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0] \ \&\& \ \text{!GtQ}[c + d, 0]$
3287. $\text{Int}[\text{Sqrt}[(b_.)*\sin[(e_.) + (f_.)*(x_.)]]/\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]], x_Symbol] \rightarrow \text{Simp}[2*c*\text{Rt}[b*(c + d), 2]*\text{Tan}[e + f*x]*\text{Sqrt}[1 + \text{Csc}[e + f*x]]*(\text{Sqrt}[1 - \text{Csc}[e + f*x]]/(d*f*\text{Sqrt}[c^2 - d^2]))*\text{EllipticPi}[(c + d)/d, \text{ArcSin}[\text{Sqrt}[c + d*\sin[e + f*x]]/\text{Sqrt}[b*\sin[e + f*x]]]/\text{Rt}[(c + d)/b, 2]], -(c + d)/(c - d)], x] /; \text{FreeQ}\{b, c, d, e, f\}, x \ \&\& \ \text{GtQ}[c^2 - d^2, 0] \ \&\& \ \text{PosQ}[(c + d)/b] \ \&\& \ \text{GtQ}[c^2, 0]$
3288. $\text{Int}[\text{Sqrt}[(b_.)*\sin[(e_.) + (f_.)*(x_.)]]/\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]], x_Symbol] \rightarrow \text{Simp}[2*b*(\text{Tan}[e + f*x]/(d*f))*\text{Rt}[(c + d)/b, 2]*\text{Sqrt}[c*((1 + \text{Csc}[e + f*x])/(c - d))]*\text{Sqrt}[c*((1 - \text{Csc}[e + f*x])/(c + d))]*\text{EllipticPi}[(c + d)/d, \text{ArcSin}[\text{Sqrt}[c + d*\sin[e + f*x]]/\text{Sqrt}[b*\sin[e + f*x]]]/\text{Rt}[(c + d)/b, 2]], -(c + d)/(c - d)], x] /; \text{FreeQ}\{b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[c^2 - d^2, 0] \ \&\& \ \text{PosQ}[(c + d)/b]$
3289. $\text{Int}[\text{Sqrt}[(b_.)*\sin[(e_.) + (f_.)*(x_.)]]/\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]], x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[b*\sin[e + f*x]]/\text{Sqrt}[(-b)*\sin[e + f*x]] \ \text{Int}[\text{Sqrt}[(-b)*\sin[e + f*x]]/\text{Sqrt}[c + d*\sin[e + f*x]], x], x] /; \text{FreeQ}\{b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[c^2 - d^2, 0] \ \&\& \ \text{NegQ}[(c + d)/b]$
3290. $\text{Int}[\text{Sqrt}[(a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_.)]]/\text{Sqrt}[(c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_.)]], x_Symbol] \rightarrow \text{Simp}[2*((a + b*\sin[e + f*x])/(d*f*\text{Rt}[(a + b)/(c + d), 2]*\text{Cos}[e + f*x]))*\text{Sqrt}[(b*c - a*d)*((1 + \sin[e + f*x])/((c - d)*(a + b*\sin[e + f*x])))]*\text{Sqrt}[(-b*c - a*d)*((1 - \sin[e + f*x])/((c + d)*(a + b*\sin[e + f*x])))]*\text{EllipticPi}[b*((c + d)/(d*(a +$

- b))), ArcSin[Rt[(a + b)/(c + d), 2]*(Sqrt[c + d*Sin[e + f*x]]/Sqrt[a + b*Sin[e + f*x]]), (a - b)*((c + d)/((a + b)*(c - d))), x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && PosQ[(a + b)/(c + d)]
3291. Int[Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)]]/Sqrt[(c_) + (d_)*sin[(e_) + (f_)*(x_)]], x_Symbol] := Simp[Sqrt[-c - d*Sin[e + f*x]]/Sqrt[c + d*Sin[e + f*x]] Int[Sqrt[a + b*Sin[e + f*x]]/Sqrt[-c - d*Sin[e + f*x]], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && NegQ[(a + b)/(c + d)]
3292. Int[1/(Sqrt[(d_)*sin[(e_) + (f_)*(x_)]]*Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)])], x_Symbol] := Simp[-2*(d/(f*Sqrt[a + b*d]))*EllipticF[ArcSin[Cos[e + f*x]/(1 + d*Sin[e + f*x])], -(a - b*d)/(a + b*d)], x] /; FreeQ[{a, b, d, e, f}, x] && LtQ[a^2 - b^2, 0] && EqQ[d^2, 1] && GtQ[b*d, 0]
3293. Int[1/(Sqrt[(d_)*sin[(e_) + (f_)*(x_)]]*Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)])], x_Symbol] := Simp[Sqrt[Sign[b]*Sin[e + f*x]]/Sqrt[d*Sin[e + f*x]] Int[1/(Sqrt[a + b*Sin[e + f*x]]*Sqrt[Sign[b]*Sin[e + f*x]]), x], x] /; FreeQ[{a, b, d, e, f}, x] && LtQ[a^2 - b^2, 0] && GtQ[b^2, 0] && !(EqQ[d^2, 1] && GtQ[b*d, 0])
3294. Int[1/(Sqrt[(d_)*sin[(e_) + (f_)*(x_)]]*Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)])], x_Symbol] := Simp[-2*Sqrt[a^2]*(Sqrt[-Cot[e + f*x]^2]/(a*f*Sqrt[a^2 - b^2]*Cot[e + f*x]))*Rt[(a + b)/d, 2]*EllipticF[ArcSin[Sqrt[a + b*Sin[e + f*x]]/Sqrt[d*Sin[e + f*x]]/Rt[(a + b)/d, 2]], -(a + b)/(a - b)], x] /; FreeQ[{a, b, d, e, f}, x] && GtQ[a^2 - b^2, 0] && PosQ[(a + b)/d] && GtQ[a^2, 0]
3295. Int[1/(Sqrt[(d_)*sin[(e_) + (f_)*(x_)]]*Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)])], x_Symbol] := Simp[-2*(Tan[e + f*x]/(a*f))*Rt[(a + b)/d, 2]*Sqrt[a*((1 - Csc[e + f*x])/(a + b))]*Sqrt[a*((1 + Csc[e + f*x])/(a - b))]*EllipticF[ArcSin[Sqrt[a + b*Sin[e + f*x]]/Sqrt[d*Sin[e + f*x]]/Rt[(a + b)/d, 2]], -(a + b)/(a - b)], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0] && PosQ[(a + b)/d]

3296. `Int[1/(Sqrt[(d_)*sin[(e_) + (f_)*(x_)]]*Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)])], x_Symbol] := Simp[Sqrt[(-d)*Sin[e + f*x]]/Sqrt[d*Ssin[e + f*x]] Int[1/(Sqrt[a + b*Ssin[e + f*x]]*Sqrt[(-d)*Sin[e + f*x]]), x], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0] && NegQ[(a + b)/d]`
3297. `Int[1/(Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)]]*Sqrt[(c_) + (d_)*sin[(e_) + (f_)*(x_)])], x_Symbol] := Simp[2*((c + d*Ssin[e + f*x])/(f*(b*c - a*d)*Rt[(c + d)/(a + b), 2]*Cos[e + f*x]))*Sqrt[(b*c - a*d)*((1 - Sin[e + f*x])/((a + b)*(c + d*Ssin[e + f*x])))]*Sqrt[(-b*c - a*d)*((1 + Sin[e + f*x])/((a - b)*(c + d*Ssin[e + f*x])))]*EllipticF[ArcSin[Rt[(c + d)/(a + b), 2]*(Sqrt[a + b*Ssin[e + f*x]]/Sqrt[c + d*Ssin[e + f*x]])], (a + b)*((c - d)/((a - b)*(c + d)))]], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && PosQ[(c + d)/(a + b)]`
3298. `Int[1/(Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)]]*Sqrt[(c_) + (d_)*sin[(e_) + (f_)*(x_)])], x_Symbol] := Simp[Sqrt[-a - b*Ssin[e + f*x]]/Sqrt[a + b*Ssin[e + f*x]] Int[1/(Sqrt[-a - b*Ssin[e + f*x]]*Sqrt[c + d*Ssin[e + f*x]]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && NegQ[(c + d)/(a + b)]`
3299. `Int[((d_)*sin[(e_) + (f_)*(x_)])^(3/2)/Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)])], x_Symbol] := Simp[(-a)*(d/(2*b)) Int[Sqrt[d*Ssin[e + f*x]]/Sqrt[a + b*Ssin[e + f*x]], x], x] + Simp[d/(2*b) Int[Sqrt[d*Ssin[e + f*x]]*((a + 2*b*Ssin[e + f*x])/Sqrt[a + b*Ssin[e + f*x]])], x], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0]`
3300. `Int[((a_) + (b_)*sin[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*sin[(e_) + (f_)*(x_)])^(n_), x_Symbol] := Simp[(-b)*Cos[e + f*x]*(a + b*Ssin[e + f*x])^(m - 1)*((c + d*Ssin[e + f*x])^n/(f*(m + n))), x] + Simp[1/(d*(m + n)) Int[(a + b*Ssin[e + f*x])^(m - 2)*(c + d*Ssin[e + f*x])^(n - 1)*Simp[a^2*c*d*(m + n) + b*d*(b*c*(m - 1) + a*d*n) + (a*d*(2*b*c + a*d)*(m + n) - b*d*(a*c - b*d*(m + n - 1)))*Sin[e + f*x] + b*d*(b*c*n + a*d*(2*m + n - 1))*Sin[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2,`

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0] && LtQ[0, m, 2] && LtQ[-1, n, 2] && NeQ[m + n, 0] && (IntegerQ[m]
|| IntegersQ[2*m, 2*n])

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3301.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})} \left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b/d \text{ Int}[(a + b\sin[e + f*x])^{(m-1)}(c + d\sin[e + f*x])^{(n+1)}, x], x] - \text{Simp}[(b*c - a*d)/d \text{ Int}[(a + b\sin[e + f*x])^{(m-1)}(c + d\sin[e + f*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IGtQ}[m, 0]$
3302.  $\text{Int}[\left((d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})} / \left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[a \text{ Int}[(d\sin[e + f*x])^n / (a^2 - b^2\sin[e + f*x]^2), x], x] - \text{Simp}[b/d \text{ Int}[(d\sin[e + f*x])^{(n+1)} / (a^2 - b^2\sin[e + f*x]^2), x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
3303.  $\text{Int}[\left((d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})} \left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrig}[(d\sin[e + f*x])^n * (1 / ((a - b\sin[e + f*x])^m / (a^2 - b^2\sin[e + f*x]^2)^m)), x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{ILtQ}[m, -1]$
3304.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})} \left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(a + b\sin[e + f*x])^m (c + d\sin[e + f*x])^n, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3305.  $\text{Int}[\left((c_{\cdot}) \left((d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(p_{\cdot})}\right)^{(n_{\cdot})} \left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[c^{\text{IntPart}[n]} * ((c*(d\sin[e + f*x])^p)^{\text{FracPart}[n]} / (d\sin[e + f*x])^{(p*\text{FracPart}[n])}) \text{ Int}[(a + b\sin[e + f*x])^m (d\sin[e + f*x])^{(n*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{!IntegerQ}[n]$
3306.  $\text{Int}[\left((a_{\cdot}) + \cos[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})} \left((c_{\cdot}) \left(\cos[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(p_{\cdot})}\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[c^{\text{IntPart}[n]} * ((c*(d\cos[e + f*x])^p)^{\text{FracPart}[n]} / (d\cos[e + f*x])^{(p*\text{FracPart}[n])}) \text{ Int}[(a + b\cos[e + f*x])^m (d\cos[e + f*x])^{(n*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{!IntegerQ}[n]$

3307.  $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (d_.) + (c_)]^{(n_.)} \cdot ((a_.) + (b_.) \cdot \sin[(e_.) + (f_.) \cdot (x_)])^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[(a + b \cdot \sin[e + f \cdot x])^m \cdot (d + c \cdot \sin[e + f \cdot x])^n / \sin[e + f \cdot x]^n], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \&\& \text{IntegerQ}[n]$
3308.  $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (d_.) + (c_)]^{(n_.)} \cdot ((a_.) + (b_.) \cdot \sin[(e_.) + (f_.) \cdot (x_)])^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[(b + a \cdot \text{Csc}[e + f \cdot x])^m \cdot (c + d \cdot \text{Csc}[e + f \cdot x])^n / \text{Csc}[e + f \cdot x]^m], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, n\}, x\} \&\& !\text{IntegerQ}[n] \&\& \text{IntegerQ}[m]$
3309.  $\text{Int}[(\cos[(e_.) + (f_.) \cdot (x_)] \cdot (b_.) + (a_)]^{(m_.)} \cdot ((c_.) + (d_.) \cdot \sec[(e_.) + (f_.) \cdot (x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[(b + a \cdot \text{Sec}[e + f \cdot x])^m \cdot (c + d \cdot \text{Sec}[e + f \cdot x])^n / \text{Sec}[e + f \cdot x]^m], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, n\}, x\} \&\& !\text{IntegerQ}[n] \&\& \text{IntegerQ}[m]$
3310.  $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (d_.) + (c_)]^{(n_.)} \cdot ((a_.) + (b_.) \cdot \sin[(e_.) + (f_.) \cdot (x_)])^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[\text{Sin}[e + f \cdot x]^n \cdot (c + d \cdot \text{Csc}[e + f \cdot x])^n / (d + c \cdot \sin[e + f \cdot x])^n \text{Int}[(a + b \cdot \sin[e + f \cdot x])^m \cdot (d + c \cdot \sin[e + f \cdot x])^n / \sin[e + f \cdot x]^n], x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& !\text{IntegerQ}[n] \&\& !\text{IntegerQ}[m]$
3311.  $\text{Int}[(\cos[(e_.) + (f_.) \cdot (x_)] \cdot (b_.) + (a_)]^{(m_.)} \cdot ((c_.) + (d_.) \cdot \sec[(e_.) + (f_.) \cdot (x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[\text{Cos}[e + f \cdot x]^n \cdot (c + d \cdot \text{Sec}[e + f \cdot x])^n / (d + c \cdot \cos[e + f \cdot x])^n \text{Int}[(a + b \cdot \cos[e + f \cdot x])^m \cdot (d + c \cdot \cos[e + f \cdot x])^n / \cos[e + f \cdot x]^n], x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& !\text{IntegerQ}[n] \&\& !\text{IntegerQ}[m]$
3312.  $\text{Int}[\cos[(e_.) + (f_.) \cdot (x_)] \cdot ((a_.) + (b_.) \cdot \sin[(e_.) + (f_.) \cdot (x_)])^{(m_.)} \cdot ((c_.) + (d_.) \cdot \sin[(e_.) + (f_.) \cdot (x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[1 / (b \cdot f) \text{Subst}[\text{Int}[(a + x)^m \cdot (c + (d/b) \cdot x)^n], x, b \cdot \sin[e + f \cdot x]], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\}$
3313.  $\text{Int}[\cos[(e_.) + (f_.) \cdot (x_)]^{(p_.)} \cdot ((d_.) \cdot \sin[(e_.) + (f_.) \cdot (x_)])^{(n_.)} \cdot ((a_.) + (b_.) \cdot \sin[(e_.) + (f_.) \cdot (x_)]), x\_Symbol] \rightarrow \text{Simp}[a \text{Int}[\text{Cos}[e + f \cdot x]^p \cdot (d \cdot \sin[e + f \cdot x])^n], x] + \text{Simp}[b/d \text{Int}[\text{Cos}[e + f \cdot x]^p \cdot (d \cdot \sin[e + f \cdot x])^{(n + 1)}], x], x] /;$   $\text{FreeQ}\{a, b, d, e, f, n, p\}, x\} \&\& \text{IntegerQ}[(p - 1)/2] \&\& \text{IntegerQ}[n] \&\& ((\text{LtQ}[p, 0] \&\& \text{NeQ}[a^2 - b^2,$

- 0]) || LtQ[0, n, p - 1] || LtQ[p + 1, -n, 2\*p + 1])
3314.  $\text{Int}[(\cos[e + f x] + (f_*)x)^p * ((d_*)\sin[e + f x] + (f_*)x)^n] / ((a_*) + (b_*)\sin[e + f x])$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[1/a \text{ Int}[\text{Cos}[e + f x]^{p-2} * (d \text{ Sin}[e + f x])^n, x], x] - \text{Simp}[1/(b*d) \text{ Int}[\text{Cos}[e + f x]^{p-2} * (d \text{ Sin}[e + f x])^{n+1}, x], x] /;$  FreeQ[{a, b, d, e, f, n, p}, x] && IntegerQ[(p - 1)/2] && EqQ[a^2 - b^2, 0] && IntegerQ[n] && (LtQ[0, n, (p + 1)/2] || (LeQ[p, -n] && LtQ[-n, 2\*p - 3]) | | (GtQ[n, 0] && LeQ[n, -p]))
3315.  $\text{Int}[(\cos[e + f x] + (f_*)x)^p * ((a_*) + (b_*)\sin[e + f x] + (f_*)x)^m * ((c_*) + (d_*)\sin[e + f x] + (f_*)x)^n]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[1/(b^p * f) \text{ Subst}[\text{Int}[(a + x)^{m + (p-1)/2} * (a - x)^{(p-1)/2} * (c + (d/b)x)^n, x], x, b \text{ Sin}[e + f x]], x] /;$  FreeQ[{a, b, e, f, c, d, m, n}, x] && IntegerQ[(p - 1)/2] && EqQ[a^2 - b^2, 0]
3316.  $\text{Int}[(\cos[e + f x] + (f_*)x)^p * ((a_*) + (b_*)\sin[e + f x] + (f_*)x)^m * ((c_*) + (d_*)\sin[e + f x] + (f_*)x)^n]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[1/(b^p * f) \text{ Subst}[\text{Int}[(a + x)^m * (c + (d/b)x)^n * (b^2 - x^2)^{(p-1)/2}, x], x, b \text{ Sin}[e + f x]], x] /;$  FreeQ[{a, b, c, d, e, f, m, n}, x] && IntegerQ[(p - 1)/2] && NeQ[a^2 - b^2, 0]
3317.  $\text{Int}[(\cos[e + f x] + (f_*)x)^p * ((d_*)\sin[e + f x] + (f_*)x)^n * ((a_*) + (b_*)\sin[e + f x] + (f_*)x)]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[a \text{ Int}[(g \text{ Cos}[e + f x])^p * (d \text{ Sin}[e + f x])^n, x], x] + \text{Simp}[b/d \text{ Int}[(g \text{ Cos}[e + f x])^p * (d \text{ Sin}[e + f x])^{n+1}, x], x] /;$  FreeQ[{a, b, d, e, f, g, n, p}, x]
3318.  $\text{Int}[(\cos[e + f x] + (f_*)x)^p * ((d_*)\sin[e + f x] + (f_*)x)^n] / ((a_*) + (b_*)\sin[e + f x] + (f_*)x)$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[g^2/a \text{ Int}[(g \text{ Cos}[e + f x])^{p-2} * (d \text{ Sin}[e + f x])^n, x], x] - \text{Simp}[g^2/(b*d) \text{ Int}[(g \text{ Cos}[e + f x])^{p-2} * (d \text{ Sin}[e + f x])^{n+1}, x], x] /;$  FreeQ[{a, b, d, e, f, g, n, p}, x] && EqQ[a^2 - b^2, 0]
3319.  $\text{Int}[(\cos[e + f x] + (f_*)x)^p * ((a_*) + (b_*)\sin[e + f x] + (f_*)x)^m * ((c_*) + (d_*)\sin[e + f x] + (f_*)x)^n]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[a^m * (c^m / g^{2*m}) \text{ Int}[(g \text{ Cos}[e + f x])^{2*m+p} * (c + d \text{ Sin}[e + f x])^n, x], x] /;$  FreeQ[{a, b, d, e, f, g, n, p}, x] && EqQ[a^2 - b^2, 0]

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n[e + f*x]^(n - m), x], x] /; FreeQ[{a, b, c, d, e, f, g, n, p}, x] &
& EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && IntegerQ[m] && !(IntegerQ
[n] && LtQ[n^2, m^2])

3320. Int[cos[(e_.) + (f_.)*(x_)]^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]
)^(m_.)*((c_) + (d_.)*sin[(e_.) + (f_.)*(x_)]^(n_.), x_Symbol] :> Sim
p[1/(a^(p/2)*c^(p/2)) Int[(a + b*Sin[e + f*x])^(m + p/2)*(c + d*Sin[
e + f*x])^(n + p/2), x], x] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && E
qQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && IntegerQ[p/2]

3321. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)/(Sqrt[(a_) + (b_.)*sin[(e_.)
+ (f_.)*(x_)]]*Sqrt[(c_) + (d_.)*sin[(e_.) + (f_.)*(x_)]]), x_Symbol]
:> Simp[g*(Cos[e + f*x]/(Sqrt[a + b*Sin[e + f*x]]*Sqrt[c + d*Sin[e + f
*x]])) Int[(g*Cos[e + f*x])^(p - 1), x], x] /; FreeQ[{a, b, c, d, e,
f, g, p}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0]

3322. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_
.)*(x_)]^(m_)*((c_) + (d_.)*sin[(e_.) + (f_.)*(x_)]^(n_), x_Symbol]
:> Simp[a^IntPart[m]*c^IntPart[m]*(a + b*Sin[e + f*x])^FracPart[m]*((c
+ d*Sin[e + f*x])^FracPart[m]/(g^(2*IntPart[m])*g*Cos[e + f*x])^(2*F
racPart[m]))) Int[(g*Cos[e + f*x])^(2*m + p)/(c + d*Sin[e + f*x]), x
], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && EqQ[b*c + a*d, 0]
&& EqQ[a^2 - b^2, 0] && EqQ[2*m + p - 1, 0] && EqQ[m - n - 1, 0]

3323. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_
.)*(x_)]^(m_)*((c_) + (d_.)*sin[(e_.) + (f_.)*(x_)]^(n_), x_Symbol]
:> Simp[b*(g*Cos[e + f*x])^(p + 1)*(a + b*Sin[e + f*x])^(m - 1)*((c +
d*Sin[e + f*x])^n/(f*g*(m - n - 1))), x] /; FreeQ[{a, b, c, d, e, f, g
, m, n, p}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && EqQ[2*m +
p - 1, 0] && NeQ[m - n - 1, 0]

3324. Int[(cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_
.)*(x_)]^(m_)*((c_) + (d_.)*sin[(e_.) + (f_.)*(x_)]^(n_), x_Symbol]
:> Simp[-2*b*(g*Cos[e + f*x])^(p + 1)*(a + b*Sin[e + f*x])^(m - 1)*((c
+ d*Sin[e + f*x])^n/(f*g*(2*n + p + 1))), x] - Simp[b*((2*m + p - 1)/
(d*(2*n + p + 1)) Int[(g*Cos[e + f*x])^p*(a + b*Sin[e + f*x])^(m -
1)*(c + d*Sin[e + f*x])^(n + 1), x], x] /; FreeQ[{a, b, c, d, e, f, g,

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- $p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[\text{Simplify}[m + p/2 - 1/2], 0] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[2*n + p + 1, 0] \&\& \text{!(ILtQ}[\text{Simplify}[m + n + p], 0] \&\& \text{GtQ}[\text{Simplify}[2*m + n + 3*(p/2) + 1], 0])$
3325. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^{(m_)}*((c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_)]^{(n_)}), x_Symbol]$
 $:\> \text{Simp}[(-b)*(g*\cos[e + f*x])^{(p + 1)}*(a + b*\sin[e + f*x])^{(m - 1)}*((c + d*\sin[e + f*x])^n/(f*g*(m + n + p))), x] + \text{Simp}[a*((2*m + p - 1)/(m + n + p)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{(m - 1)}*(c + d*\sin[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[\text{Simplify}[m + p/2 - 1/2], 0] \&\& \text{!LtQ}[n, -1] \&\& \text{!(IGtQ}[\text{Simplify}[n + p/2 - 1/2], 0] \&\& \text{GtQ}[m - n, 0]) \&\& \text{!(ILtQ}[\text{Simplify}[m + n + p], 0] \&\& \text{GtQ}[\text{Simplify}[2*m + n + 3*(p/2) + 1], 0])$
3326. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^{(m_)}*((c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_)]^{(m_)}), x_Symbol]$
 $:\> \text{Simp}[a^{\text{IntPart}[m]}*c^{\text{IntPart}[m]}*(a + b*\sin[e + f*x])^{\text{FracPart}[m]}*((c + d*\sin[e + f*x])^{\text{FracPart}[m]}/(g^{(2*\text{IntPart}[m])}*(g*\cos[e + f*x])^{(2*\text{FracPart}[m])})) \text{Int}[(g*\cos[e + f*x])^{(2*m + p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[2*m + p + 1, 0]$
3327. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^{(m_)}*((c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_)]^{(n_)}), x_Symbol]$
 $:\> \text{Simp}[b*(g*\cos[e + f*x])^{(p + 1)}*(a + b*\sin[e + f*x])^m*((c + d*\sin[e + f*x])^n/(a*f*g*(m - n))), x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n + p + 1, 0] \&\& \text{NeQ}[m, n]$
3328. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^{(m_)}*((c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_)]^{(n_)}), x_Symbol]$
 $:\> \text{Simp}[b*(g*\cos[e + f*x])^{(p + 1)}*(a + b*\sin[e + f*x])^m*((c + d*\sin[e + f*x])^n/(a*f*g*(2*m + p + 1))), x] + \text{Simp}[(m + n + p + 1)/(a*(2*m + p + 1)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{(m + 1)}*(c + d*\sin[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{ILtQ}[\text{Simplify}[m + n + p +$

- 1], 0] && NeQ[2*m + p + 1, 0] && (SumSimplerQ[m, 1] || !SumSimplerQ[n, 1])
3329. Int[(cos[(e_.) + (f_.)*(x_.)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)])^(m_)*((c_) + (d_.)*sin[(e_.) + (f_.)*(x_.)])^(n_), x_Symbol]
 :> Simp[-2*b*(g*Cos[e + f*x])^(p + 1)*(a + b*Sin[e + f*x])^(m - 1)*((c + d*Sin[e + f*x])^n/(f*g*(2*n + p + 1))), x] - Simp[b*((2*m + p - 1)/(d*(2*n + p + 1)) Int[(g*Cos[e + f*x])^p*(a + b*Sin[e + f*x])^(m - 1)*(c + d*Sin[e + f*x])^(n + 1), x], x] /; FreeQ[{a, b, c, d, e, f, g, p}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && GtQ[m, 0] && LtQ[n, -1] && NeQ[2*n + p + 1, 0] && IntegersQ[2*m, 2*n, 2*p]
3330. Int[(cos[(e_.) + (f_.)*(x_.)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)])^(m_)*((c_) + (d_.)*sin[(e_.) + (f_.)*(x_.)])^(n_), x_Symbol]
 :> Simp[(-b)*(g*Cos[e + f*x])^(p + 1)*(a + b*Sin[e + f*x])^(m - 1)*((c + d*Sin[e + f*x])^n/(f*g*(m + n + p))), x] + Simp[a*((2*m + p - 1)/(m + n + p)) Int[(g*Cos[e + f*x])^p*(a + b*Sin[e + f*x])^(m - 1)*(c + d*Sin[e + f*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, n, p}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && GtQ[m, 0] && NeQ[m + n + p, 0] && !LtQ[0, n, m] && IntegersQ[2*m, 2*n, 2*p]
3331. Int[(cos[(e_.) + (f_.)*(x_.)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)])^(m_)*((c_) + (d_.)*sin[(e_.) + (f_.)*(x_.)])^(n_), x_Symbol]
 :> Simp[b*(g*Cos[e + f*x])^(p + 1)*(a + b*Sin[e + f*x])^m*((c + d*Sin[e + f*x])^n/(a*f*g*(2*m + p + 1))), x] + Simp[(m + n + p + 1)/(a*(2*m + p + 1)) Int[(g*Cos[e + f*x])^p*(a + b*Sin[e + f*x])^(m + 1)*(c + d*Sin[e + f*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, n, p}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && LtQ[m, -1] && NeQ[2*m + p + 1, 0] && !LtQ[m, n, -1] && IntegersQ[2*m, 2*n, 2*p]
3332. Int[(cos[(e_.) + (f_.)*(x_.)]*(g_.))^(p_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_.)])^(m_)*((c_) + (d_.)*sin[(e_.) + (f_.)*(x_.)])^(n_), x_Symbol]
 :> Simp[a^IntPart[m]*c^IntPart[m]*(a + b*Sin[e + f*x])^FracPart[m]*((c + d*Sin[e + f*x])^FracPart[m]/(g^(2*IntPart[m])*(g*Cos[e + f*x])^(2*FracPart[m]))) Int[(g*Cos[e + f*x])^(2*m + p)*(c + d*Sin[e + f*x])^(n - m), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && (FractionQ[m] || !FractionQ[n])

3333. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^{\text{p}_.}*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_)])^{\text{m}_.}*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)])]$, x_Symbol] \rightarrow $\text{Simp}[(-d)*(g*\cos[e + f*x])^{\text{p} + 1}*((a + b*\sin[e + f*x])^{\text{m}}/(f*g*(\text{m} + \text{p} + 1)))$, x] /; $\text{FreeQ}\{a, b, c, d, e, f, g, \text{m}, \text{p}\}, x\}$ && $\text{EqQ}[a^2 - b^2, 0]$ && $\text{EqQ}[a*d*\text{m} + b*c*(\text{m} + \text{p} + 1), 0]$
3334. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^{\text{p}_.}*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_)])^{\text{m}_.}*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)])]$, x_Symbol] \rightarrow $\text{Simp}[(-b*c + a*d)*(g*\cos[e + f*x])^{\text{p} + 1}*((a + b*\sin[e + f*x])^{\text{m}}/(a*f*g*(\text{p} + 1)))$, x] + $\text{Simp}[b*((a*d*\text{m} + b*c*(\text{m} + \text{p} + 1))/(a*g^2*(\text{p} + 1)) \text{Int}[(g*\cos[e + f*x])^{\text{p} + 2}*(a + b*\sin[e + f*x])^{\text{m} - 1}, x]$, x] /; $\text{FreeQ}\{a, b, c, d, e, f, g\}, x\}$ && $\text{EqQ}[a^2 - b^2, 0]$ && $\text{GtQ}[\text{m}, -1]$ && $\text{LtQ}[\text{p}, -1]$
3335. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^{\text{p}_.}*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_)])^{\text{m}_.}*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)])]$, x_Symbol] \rightarrow $\text{Simp}[(-d)*(g*\cos[e + f*x])^{\text{p} + 1}*((a + b*\sin[e + f*x])^{\text{m}}/(f*g*(\text{m} + \text{p} + 1)))$, x] + $\text{Simp}[(a*d*\text{m} + b*c*(\text{m} + \text{p} + 1))/(b*(\text{m} + \text{p} + 1)) \text{Int}[(g*\cos[e + f*x])^{\text{p}}*(a + b*\sin[e + f*x])^{\text{m}}, x]$, x] /; $\text{FreeQ}\{a, b, c, d, e, f, g, \text{m}, \text{p}\}, x\}$ && $\text{EqQ}[a^2 - b^2, 0]$ && $\text{IGtQ}[\text{Simplify}[(2*\text{m} + \text{p} + 1)/2], 0]$ && $\text{NeQ}[\text{m} + \text{p} + 1, 0]$
3336. $\text{Int}[\cos[(e_.) + (f_.)(x_)]^2*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_)])^{\text{m}_.}*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)])]$, x_Symbol] \rightarrow $\text{Simp}[2*(b*c - a*d)*\cos[e + f*x]*((a + b*\sin[e + f*x])^{\text{m} + 1}/(b^2*f*(2*\text{m} + 3)))$, x] + $\text{Simp}[1/(b^3*(2*\text{m} + 3)) \text{Int}[(a + b*\sin[e + f*x])^{\text{m} + 2}*(b*c + 2*a*d*(\text{m} + 1) - b*d*(2*\text{m} + 3)*\sin[e + f*x])]$, x] /; $\text{FreeQ}\{a, b, c, d, e, f\}, x\}$ && $\text{EqQ}[a^2 - b^2, 0]$ && $\text{LtQ}[\text{m}, -3/2]$
3337. $\text{Int}[\cos[(e_.) + (f_.)(x_)]^2*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_)])^{\text{m}_.}*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)])]$, x_Symbol] \rightarrow $\text{Simp}[d*\cos[e + f*x]*((a + b*\sin[e + f*x])^{\text{m} + 2}/(b^2*f*(\text{m} + 3)))$, x] - $\text{Simp}[1/(b^2*(\text{m} + 3)) \text{Int}[(a + b*\sin[e + f*x])^{\text{m} + 1}*(b*d*(\text{m} + 2) - a*c*(\text{m} + 3) + (b*c*(\text{m} + 3) - a*d*(\text{m} + 4))*\sin[e + f*x])]$, x] /; $\text{FreeQ}\{a, b, c, d, e, f\}, x\}$ && $\text{EqQ}[a^2 - b^2, 0]$ && $\text{GeQ}[\text{m}, -3/2]$ && $\text{LtQ}[\text{m}, 0]$

3338. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)]^m*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)]), x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^m/(a*f*g*(2*m + p + 1))), x] + \text{Simp}[(a*d*m + b*c*(m + p + 1))/(a*b*(2*m + p + 1)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{m+1}, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& (\text{LtQ}[m, -1] \parallel \text{ILtQ}[\text{Simplify}[m + p], 0]) \&\& \text{NeQ}[2*m + p + 1, 0]$
3339. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)]^m*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)]), x_Symbol] \rightarrow \text{Simp}[(-d)*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^m/(f*g*(m + p + 1))), x] + \text{Simp}[(a*d*m + b*c*(m + p + 1))/(b*(m + p + 1)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^m, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[m + p + 1, 0]$
3340. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)]^m*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)]), x_Symbol] \rightarrow \text{Simp}[(-g*\cos[e + f*x])^{p+1}*(a + b*\sin[e + f*x])^m*((d + c*\sin[e + f*x])/(f*g*(p + 1))), x] + \text{Simp}[1/(g^2*(p + 1)) \text{Int}[(g*\cos[e + f*x])^{p+2}*(a + b*\sin[e + f*x])^{m-1}*\text{Simp}[a*c*(p + 2) + b*d*m + b*c*(m + p + 2)*\sin[e + f*x], x], x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2*m] \&\& !(\text{EqQ}[m, 1] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{SimplerQ}[c + d*x, a + b*x])$
3341. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)]^m*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)]), x_Symbol] \rightarrow \text{Simp}[(-d)*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^m/(f*g*(m + p + 1))), x] + \text{Simp}[1/(m + p + 1) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{m-1}*\text{Simp}[a*c*(m + p + 1) + b*d*m + (a*d*m + b*c*(m + p + 1))*\sin[e + f*x], x], x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g, p\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m, 0] \&\& !\text{LtQ}[p, -1] \&\& \text{IntegerQ}[2*m] \&\& !(\text{EqQ}[m, 1] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{SimplerQ}[c + d*x, a + b*x])$
3342. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_) + (b_.)\sin[(e_.) + (f_.)(x_)]^m*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)]), x_Symbol] \rightarrow \text{Simp}[g*(g*\cos[e + f*x])^{p-1}*(a + b*\sin[e + f*x])^{m+1}*((b*c*(m + p + 1) - a*d*p + b*d*(m + 1)*\sin[e + f*x])/(b^2*f*(m + 1)*(m + p + 1))$

- $$\text{Int}[(g \cos[e + f x])^{p-2} (a + b \sin[e + f x])^{m+1} \text{Simp}[b d (m+1) + (b c (m+1) - a d p) \sin[e + f x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[p, 1] \&\& \text{NeQ}[m + p + 1, 0] \&\& \text{IntegerQ}[2 m]$$
3343.
$$\text{Int}[(\cos[e] + f(x)) (g)^{p-1} ((a) + (b) \sin[e] + f(x))^{m-1} ((c) + (d) \sin[e] + f(x))], x_Symbol] \text{:> Simp}[-(b c - a d) (g \cos[e + f x])^{p+1} ((a + b \sin[e + f x])^{m+1} / (f g (a^2 - b^2) (m+1))), x] + \text{Simp}[1 / ((a^2 - b^2) (m+1)) \text{Int}[(g \cos[e + f x])^p (a + b \sin[e + f x])^{m+1} \text{Simp}[(a c - b d) (m+1) - (b c - a d) (m + p + 2) \sin[e + f x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{IntegerQ}[2 m]$$
3344.
$$\text{Int}[(\cos[e] + f(x)) (g)^{p-1} ((a) + (b) \sin[e] + f(x))^{m-1} ((c) + (d) \sin[e] + f(x))], x_Symbol] \text{:> Simp}[g (g \cos[e + f x])^{p-1} (a + b \sin[e + f x])^{m+1} ((b c (m+1) - a d p + b d (m+p) \sin[e + f x]) / (b^2 f (m+p) (m+p+1))), x] + \text{Simp}[g^2 ((p-1) / (b^2 (m+p) (m+p+1))) \text{Int}[(g \cos[e + f x])^{p-2} (a + b \sin[e + f x])^m \text{Simp}[b (a d m + b c (m+p+1)) + (a b c (m+p+1) - d (a^2 p - b^2 (m+p))) \sin[e + f x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[p, 1] \&\& \text{NeQ}[m + p, 0] \&\& \text{NeQ}[m + p + 1, 0] \&\& \text{IntegerQ}[2 m]$$
3345.
$$\text{Int}[(\cos[e] + f(x)) (g)^{p-1} ((a) + (b) \sin[e] + f(x))^{m-1} ((c) + (d) \sin[e] + f(x))], x_Symbol] \text{:> Simp}[(g \cos[e + f x])^{p+1} (a + b \sin[e + f x])^{m+1} ((b c - a d - (a c - b d) \sin[e + f x]) / (f g (a^2 - b^2) (p+1))), x] + \text{Simp}[1 / (g^2 (a^2 - b^2) (p+1)) \text{Int}[(g \cos[e + f x])^{p+2} (a + b \sin[e + f x])^m \text{Simp}[c (a^2 (p+2) - b^2 (m+p+2)) + a b d m + b (a c - b d) (m+p+3) \sin[e + f x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2 m]$$
3346.
$$\text{Int}[(\cos[e] + f(x)) (g)^{p-1} ((c) + (d) \sin[e] + f(x)) / ((a) + (b) \sin[e] + f(x))], x_Symbol] \text{:> Simp}[d/b \text{Int}[(g \cos[e + f x])^p, x], x] + \text{Simp}[(b c - a d) / b \text{Int}[(g \cos[e + f x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2 m]$$

- $s[e + f*x]^p/(a + b*\sin[e + f*x]), x, x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
3347. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^p)*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^m)*((c_.) + (d_.)*\sin[(e_.) + (f_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[c*g*((g*\cos[e + f*x])^{p-1}/(f*(1 + \sin[e + f*x])^{(p-1)/2}*(1 - \sin[e + f*x])^{(p-1)/2})) \text{Subst}[\text{Int}[(1 + (d/c)*x)^{(p+1)/2}*(1 - (d/c)*x)^{(p-1)/2}*(a + b*x)^m, x], x, \sin[e + f*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[c^2 - d^2, 0]$
3348. $\text{Int}[\cos[(e_.) + (f_.)*(x_)]^p*((d_.)*\sin[(e_.) + (f_.)*(x_)]^n)*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^m), x_Symbol] \rightarrow \text{Simp}[a^{(2*m)} \text{Int}[(d*\sin[e + f*x])^n/(a - b*\sin[e + f*x])^m, x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[m, p] \ \&\& \ \text{EqQ}[2*m + p, 0]$
3349. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^p)*\sin[(e_.) + (f_.)*(x_)]^2*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^m), x_Symbol] \rightarrow \text{Simp}[(-g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^{m+1}/(2*b*f*g^{m+1})), x] + \text{Simp}[a/(2*g^2) \text{Int}[(g*\cos[e + f*x])^{p+2}*(a + b*\sin[e + f*x])^{m-1}, x], x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[m - p, 0]$
3350. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^p)*\sin[(e_.) + (f_.)*(x_)]^2*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^m), x_Symbol] \rightarrow \text{Simp}[b*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^m/(a*f*g^m)), x] - \text{Simp}[1/g^2 \text{Int}[(g*\cos[e + f*x])^{p+2}*(a + b*\sin[e + f*x])^m, x], x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[m + p + 1, 0]$
3351. $\text{Int}[\cos[(e_.) + (f_.)*(x_)]^p*((d_.)*\sin[(e_.) + (f_.)*(x_)]^n)*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)]^m), x_Symbol] \rightarrow \text{Simp}[1/a^p \text{Int}[\text{ExpandTrig}[(d*\sin[e + f*x])^n*(a - b*\sin[e + f*x])^{p/2}*(a + b*\sin[e + f*x])^{m+p/2}, x], x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[m, n, p/2] \ \&\& \ ((\text{GtQ}[m, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[-m - p, n, -1]) \ || \ (\text{GtQ}[m, 2] \ \&\& \ \text{LtQ}[p, 0] \ \&\& \ \text{GtQ}[m + p/2, 0]))$

3352. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((d_.)*\sin[(e_.) + (f_.)(x_)])^n*((a_.) + (b_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(g*\cos[e + f*x])^p, (d*\sin[e + f*x])^n*(a + b*\sin[e + f*x])^m, x], x] /; \text{FreeQ}[\{a, b, d, e, f, g, n, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[m, 0]$
3353. $\text{Int}[\cos[(e_.) + (f_.)(x_)]^2*((d_.)*\sin[(e_.) + (f_.)(x_)])^n*((a_.) + (b_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[1/b^2 \text{Int}[(d*\sin[e + f*x])^n*(a + b*\sin[e + f*x])^{m+1}*(a - b*\sin[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& (\text{ILtQ}[m, 0] \parallel !\text{IGtQ}[n, 0])$
3354. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((d_.)*\sin[(e_.) + (f_.)(x_)])^n*((a_.) + (b_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[(a/g)^{2*m} \text{Int}[(g*\cos[e + f*x])^{2*m+p}*((d*\sin[e + f*x])^n/(a - b*\sin[e + f*x])^m), x], x] /; \text{FreeQ}[\{a, b, d, e, f, g, n, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{ILtQ}[m, 0]$
3355. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((d_.)*\sin[(e_.) + (f_.)(x_)])^n*((a_.) + (b_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[(a/g)^{2*m} \text{Int}[(g*\cos[e + f*x])^{2*m+p}*((d*\sin[e + f*x])^n/(a - b*\sin[e + f*x])^m), x], x] /; \text{FreeQ}[\{a, b, d, e, f, g, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m] \&\& \text{RationalQ}[p] \&\& (\text{EqQ}[2*m + p, 0] \parallel (\text{GtQ}[2*m + p, 0] \&\& \text{LtQ}[p, -1]))$
3356. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*\sin[(e_.) + (f_.)(x_)]^2*((a_.) + (b_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[b*(g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^m/(a*f*g*(2*m + p + 1))), x] - \text{Simp}[1/(a^2*(2*m + p + 1)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^{m+1}*(a*m - b*(2*m + p + 1)*\sin[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, e, f, g, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LeQ}[m, -2^{(-1)}] \&\& \text{NeQ}[2*m + p + 1, 0]$
3357. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*\sin[(e_.) + (f_.)(x_)]^2*((a_.) + (b_.)*\sin[(e_.) + (f_.)(x_)])^m, x_Symbol] \rightarrow \text{Simp}[(-g*\cos[e + f*x])^{p+1}*((a + b*\sin[e + f*x])^{m+1}/(b*f*g*(m + p + 2))), x] + \text{Simp}[1/(b*(m + p + 2)) \text{Int}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*$

- $x]^m(b(m+1) - a(p+1)\sin[e+fx]), x, x] /; \text{FreeQ}\{a, b, e, f, g, m, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[m + p + 2, 0]$
3358. $\text{Int}[\cos[(e_.) + (f_.)*(x_)]^2*((d_.)\sin[(e_.) + (f_.)*(x_)]^{(n_)}*((a_.) + (b_.)\sin[(e_.) + (f_.)*(x_)]^{(m_)}), x_Symbol] \rightarrow \text{Simp}[1/b^2 \text{ Int}[(d*\sin[e + f*x])^n*(a + b*\sin[e + f*x])^{m+1}*(a - b*\sin[e + f*x]), x], x] /; \text{FreeQ}\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[2*m, 2*n]$
3359. $\text{Int}[\cos[(e_.) + (f_.)*(x_)]^4*((d_.)\sin[(e_.) + (f_.)*(x_)]^{(n_)}*((a_.) + (b_.)\sin[(e_.) + (f_.)*(x_)]^{(m_)}), x_Symbol] \rightarrow \text{Simp}[-2/(a*b*d) \text{ Int}[(d*\sin[e + f*x])^{n+1}*(a + b*\sin[e + f*x])^{m+2}], x], x] + \text{Simp}[1/a^2 \text{ Int}[(d*\sin[e + f*x])^n*(a + b*\sin[e + f*x])^{m+2}*(1 + \sin[e + f*x]^2), x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
3360. $\text{Int}[\cos[(e_.) + (f_.)*(x_)]^4*((d_.)\sin[(e_.) + (f_.)*(x_)]^{(n_)}*((a_.) + (b_.)\sin[(e_.) + (f_.)*(x_)]^{(m_)}), x_Symbol] \rightarrow \text{Simp}[1/d^4 \text{ Int}[(d*\sin[e + f*x])^{n+4}*(a + b*\sin[e + f*x])^m, x], x] + \text{Int}[(d*\sin[e + f*x])^n*(a + b*\sin[e + f*x])^m*(1 - 2*\sin[e + f*x]^2), x] /; \text{FreeQ}\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{!IGtQ}[m, 0]$
3361. $\text{Int}[\cos[(e_.) + (f_.)*(x_)]^{(p_)}*((d_.)\sin[(e_.) + (f_.)*(x_)]^{(n_)}*((a_.) + (b_.)\sin[(e_.) + (f_.)*(x_)]^{(m_)}), x_Symbol] \rightarrow \text{Simp}[a^m*(\text{Cos}[e + f*x]/(f*\text{Sqrt}[1 + \sin[e + f*x]]*\text{Sqrt}[1 - \sin[e + f*x]])) \text{ Subst}[\text{Int}[(d*x)^n*(1 + (b/a)*x)^{m+(p-1)/2}*(1 - (b/a)*x)^{(p-1)/2}], x], x, \sin[e + f*x]], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[p/2] \&\& \text{IntegerQ}[m]$
3362. $\text{Int}[\cos[(e_.) + (f_.)*(x_)]^{(p_)}*((d_.)\sin[(e_.) + (f_.)*(x_)]^{(n_)}*((a_.) + (b_.)\sin[(e_.) + (f_.)*(x_)]^{(m_)}), x_Symbol] \rightarrow \text{Simp}[\text{Cos}[e + f*x]/(a^{p-2}*f*\text{Sqrt}[a + b*\sin[e + f*x]]*\text{Sqrt}[a - b*\sin[e + f*x]]) \text{ Subst}[\text{Int}[(d*x)^n*(a + b*x)^{m+p/2-1/2}*(a - b*x)^{p/2-1/2}], x], x, \sin[e + f*x]], x] /; \text{FreeQ}\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[p/2] \&\& \text{!IntegerQ}[m]$

3363. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((d_.)*\sin[(e_.) + (f_.)*(x_)])^{(n_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)])^{(m_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(g*\cos[e + f*x])^p, (d*\sin[e + f*x])^n*(a + b*\sin[e + f*x])^m, x], x] /; \text{FreeQ}[\{a, b, d, e, f, g, n, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[m, 0] \&\& (\text{IntegerQ}[p] \parallel \text{IGtQ}[n, 0])$
3364. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((d_.)*\sin[(e_.) + (f_.)*(x_)])^{(n_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)])^{(m_)}, x_Symbol] \rightarrow \text{Simp}[a^m*g*((g*\cos[e + f*x])^{(p-1)}/(f*(1 + \sin[e + f*x])^{(p-1)/2}*(1 - \sin[e + f*x])^{(p-1)/2})) \text{Subst}[\text{Int}[(d*x)^n*(1 + (b/a)*x)^{(m+(p-1)/2)}*(1 - (b/a)*x)^{(p-1)/2}, x], x, \sin[e + f*x]], x] /; \text{FreeQ}[\{a, b, d, e, f, n, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m]$
3365. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((d_.)*\sin[(e_.) + (f_.)*(x_)])^{(n_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)])^{(m_)}, x_Symbol] \rightarrow \text{Simp}[g*((g*\cos[e + f*x])^{(p-1)}/(f*(a + b*\sin[e + f*x])^{(p-1)/2}*(a - b*\sin[e + f*x])^{(p-1)/2})) \text{Subst}[\text{Int}[(d*x)^n*(a + b*x)^{(m+(p-1)/2)}*(a - b*x)^{(p-1)/2}, x], x, \sin[e + f*x]], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n, p\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{IntegerQ}[m]$
3366. $\text{Int}[((\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)])^{(m_)} / \text{Sqrt}[(d_.)*\sin[(e_.) + (f_.)*(x_)]], x_Symbol] \rightarrow \text{Simp}[(-g)*(g*\cos[e + f*x])^{(p-1)}*\text{Sqrt}[d*\sin[e + f*x]]*((a + b*\sin[e + f*x])^{(m+1)}/(a*d*f*(m+1))), x] + \text{Simp}[g^2*((2*m+3)/(2*a*(m+1))) \text{Int}[(g*\cos[e + f*x])^{(p-2)}*((a + b*\sin[e + f*x])^{(m+1)} / \text{Sqrt}[d*\sin[e + f*x]]), x], x] /; \text{FreeQ}[\{a, b, d, e, f, g\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{EqQ}[m + p + 1/2, 0]$
3367. $\text{Int}[((\cos[(e_.) + (f_.)*(x_)]*(g_.)^{(p_)}*((a_.) + (b_.)*\sin[(e_.) + (f_.)*(x_)])^{(m_)} / \text{Sqrt}[(d_.)*\sin[(e_.) + (f_.)*(x_)]], x_Symbol] \rightarrow \text{Simp}[2*(g*\cos[e + f*x])^{(p+1)}*\text{Sqrt}[d*\sin[e + f*x]]*((a + b*\sin[e + f*x])^m/(d*f*g*(2*m+1))), x] + \text{Simp}[2*a*(m/(g^2*(2*m+1))) \text{Int}[(g*\cos[e + f*x])^{(p+2)}*((a + b*\sin[e + f*x])^{(m-1)} / \text{Sqrt}[d*\sin[e + f*x]]), x], x] /; \text{FreeQ}[\{a, b, e, f, g\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m, 0] \&\& \text{EqQ}[m + p + 3/2, 0]$

3368. $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^2 * ((d_.) * \sin[(e_.) + (f_.)(x_.)])^{(n_.)} * ((a_.) + (b_.) * \sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(d * \sin[e + f * x])^n * (a + b * \sin[e + f * x])^m * (1 - \sin[e + f * x]^2), x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& (\text{IGtQ}[m, 0] \mid \mid \text{IntegersQ}[2 * m, 2 * n])$
3369. $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^4 * ((d_.) * \sin[(e_.) + (f_.)(x_.)])^{(n_.)} * ((a_.) + (b_.) * \sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Cos}[e + f * x] * (d * \sin[e + f * x])^{(n + 1)} * ((a + b * \sin[e + f * x])^{(m + 1)} / (a * d * f * (n + 1))), x] + (-\text{Simp}[(a^2 * (n + 1) - b^2 * (m + n + 2)) * \text{Cos}[e + f * x] * (d * \sin[e + f * x])^{(n + 2)} * ((a + b * \sin[e + f * x])^{(m + 1)} / (a^2 * b * d^2 * f * (n + 1) * (m + 1))), x] + \text{Simp}[1 / (a^2 * b * d * (n + 1) * (m + 1)) \text{Int}[(d * \sin[e + f * x])^{(n + 1)} * (a + b * \sin[e + f * x])^{(m + 1)} * \text{Simp}[a^2 * (n + 1) * (n + 2) - b^2 * (m + n + 2) * (m + n + 3) + a * b * (m + 1) * \sin[e + f * x] - (a^2 * (n + 1) * (n + 3) - b^2 * (m + n + 2) * (m + n + 4)) * \sin[e + f * x]^2, x], x], x]) /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[2 * m, 2 * n] \&\& \text{LtQ}[m, -1] \&\& \text{LtQ}[n, -1]$
3370. $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^4 * ((d_.) * \sin[(e_.) + (f_.)(x_.)])^{(n_.)} * ((a_.) + (b_.) * \sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(a^2 - b^2) * \text{Cos}[e + f * x] * (a + b * \sin[e + f * x])^{(m + 1)} * ((d * \sin[e + f * x])^{(n + 1)} / (a * b^2 * d * f * (m + 1))), x] + (\text{Simp}[(a^2 * (n - m + 1) - b^2 * (m + n + 2)) * \text{Cos}[e + f * x] * (a + b * \sin[e + f * x])^{(m + 2)} * ((d * \sin[e + f * x])^{(n + 1)} / (a^2 * b^2 * d * f * (m + 1) * (m + 2))), x] - \text{Simp}[1 / (a^2 * b^2 * (m + 1) * (m + 2)) \text{Int}[(a + b * \sin[e + f * x])^{(m + 2)} * (d * \sin[e + f * x])^n * \text{Simp}[a^2 * (n + 1) * (n + 3) - b^2 * (m + n + 2) * (m + n + 3) + a * b * (m + 2) * \sin[e + f * x] - (a^2 * (n + 2) * (n + 3) - b^2 * (m + n + 2) * (m + n + 4)) * \sin[e + f * x]^2, x], x], x]) /; \text{FreeQ}[\{a, b, d, e, f, n\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[2 * m, 2 * n] \&\& \text{LtQ}[m, -1] \&\& !\text{LtQ}[n, -1] \&\& (\text{LtQ}[m, -2] \mid \mid \text{EqQ}[m + n + 4, 0])$
3371. $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^4 * ((d_.) * \sin[(e_.) + (f_.)(x_.)])^{(n_.)} * ((a_.) + (b_.) * \sin[(e_.) + (f_.)(x_.)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(a^2 - b^2) * \text{Cos}[e + f * x] * (a + b * \sin[e + f * x])^{(m + 1)} * ((d * \sin[e + f * x])^{(n + 1)} / (a * b^2 * d * f * (m + 1))), x] + (-\text{Simp}[\text{Cos}[e + f * x] * (a + b * \sin[e + f * x])^{(m + 2)} * ((d * \sin[e + f * x])^{(n + 1)} / (b^2 * d * f * (m + n + 4))), x] - \text{Simp}[1 / (a * b^2 * (m + 1) * (m + n + 4)) \text{Int}[(a + b * \sin[e + f * x])^{(m + 1)} * (d * \sin[e + f * x])^n * \text{Simp}[a^2 * (n + 1) * (n + 3) - b^2 * (m + n + 2) * (m + n + 4) + a * b$


```

*(m + 1)*Sin[e + f*x] - (a^2*(n + 2)*(n + 3) - b^2*(m + n + 3)*(m + n
+ 4))*Sin[e + f*x]^2, x], x], x) /; FreeQ[{a, b, d, e, f, n}, x] && N
eQ[a^2 - b^2, 0] && IntegersQ[2*m, 2*n] && LtQ[m, -1] && !LtQ[n, -1]
&& NeQ[m + n + 4, 0]

```

```

3372. Int[cos[(e_.) + (f_.)*(x_)]^4*((d_.)*sin[(e_.) + (f_.)*(x_)])^(n_)*((a
_) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_), x_Symbol] :> Simp[Cos[e + f*
x]*(a + b*SIN[e + f*x])^(m + 1)*((d*SIN[e + f*x])^(n + 1)/(a*d*f*(n +
1))), x] + (-Simp[b*(m + n + 2)*Cos[e + f*x]*(a + b*SIN[e + f*x])^(m +
1)*((d*SIN[e + f*x])^(n + 2)/(a^2*d^2*f*(n + 1)*(n + 2))), x] - Simp[
1/(a^2*d^2*(n + 1)*(n + 2)) Int[(a + b*SIN[e + f*x])^m*(d*SIN[e + f*
x])^(n + 2)*Simp[a^2*n*(n + 2) - b^2*(m + n + 2)*(m + n + 3) + a*b*m*S
in[e + f*x] - (a^2*(n + 1)*(n + 2) - b^2*(m + n + 2)*(m + n + 4))*Sin[
e + f*x]^2, x], x], x) /; FreeQ[{a, b, d, e, f, m}, x] && NeQ[a^2 - b
^2, 0] && (IGtQ[m, 0] || IntegersQ[2*m, 2*n]) && !m < -1 && LtQ[n, -1
] && (LtQ[n, -2] || EqQ[m + n + 4, 0])

```

```

3373. Int[cos[(e_.) + (f_.)*(x_)]^4*((d_.)*sin[(e_.) + (f_.)*(x_)])^(n_)*((a
_) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_), x_Symbol] :> Simp[Cos[e + f*
x]*(a + b*SIN[e + f*x])^(m + 1)*((d*SIN[e + f*x])^(n + 1)/(a*d*f*(n +
1))), x] + (-Simp[Cos[e + f*x]*(a + b*SIN[e + f*x])^(m + 1)*((d*SIN[e
+ f*x])^(n + 2)/(b*d^2*f*(m + n + 4))), x] + Simp[1/(a*b*d*(n + 1)*(m
+ n + 4)) Int[(a + b*SIN[e + f*x])^m*(d*SIN[e + f*x])^(n + 1)*Simp[a
^2*(n + 1)*(n + 2) - b^2*(m + n + 2)*(m + n + 4) + a*b*(m + 3)*Sin[e +
f*x] - (a^2*(n + 1)*(n + 3) - b^2*(m + n + 3)*(m + n + 4))*Sin[e + f*
x]^2, x], x], x) /; FreeQ[{a, b, d, e, f, m}, x] && NeQ[a^2 - b^2, 0]
&& (IGtQ[m, 0] || IntegersQ[2*m, 2*n]) && !m < -1 && LtQ[n, -1] && N
eQ[m + n + 4, 0]

```

```

3374. Int[cos[(e_.) + (f_.)*(x_)]^4*((d_.)*sin[(e_.) + (f_.)*(x_)])^(n_)*((a
_) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_), x_Symbol] :> Simp[a*(n + 3)*
Cos[e + f*x]*(d*SIN[e + f*x])^(n + 1)*((a + b*SIN[e + f*x])^(m + 1)/(b
^2*d*f*(m + n + 3)*(m + n + 4))), x] + (-Simp[Cos[e + f*x]*(d*SIN[e +
f*x])^(n + 2)*((a + b*SIN[e + f*x])^(m + 1)/(b*d^2*f*(m + n + 4))), x]
- Simp[1/(b^2*(m + n + 3)*(m + n + 4)) Int[(d*SIN[e + f*x])^n*(a +
b*SIN[e + f*x])^m*Simp[a^2*(n + 1)*(n + 3) - b^2*(m + n + 3)*(m + n +
4) + a*b*m*SIN[e + f*x] - (a^2*(n + 2)*(n + 3) - b^2*(m + n + 3)*(m +
n + 5))*Sin[e + f*x]^2, x], x], x) /; FreeQ[{a, b, d, e, f, m, n}, x]

```

```
&& NeQ[a^2 - b^2, 0] && (IGtQ[m, 0] || IntegersQ[2*m, 2*n]) && !m <
-1 && !LtQ[n, -1] && NeQ[m + n + 3, 0] && NeQ[m + n + 4, 0]
```

```
3375. Int[cos[(e_.) + (f_.)*(x_)]^6*((d_.)*sin[(e_.) + (f_.)*(x_)])^(n_)*((a
_) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_), x_Symbol] := Simp[Cos[e + f*
x]*(d*Ssin[e + f*x])^(n + 1)*((a + b*Ssin[e + f*x])^(m + 1)/(a*d*f*(n +
1))), x] + (-Simp[b*(m + n + 2)*Cos[e + f*x]*(d*Ssin[e + f*x])^(n + 2)*
((a + b*Ssin[e + f*x])^(m + 1)/(a^2*d^2*f*(n + 1)*(n + 2))), x] - Simp[
a*(n + 5)*Cos[e + f*x]*(d*Ssin[e + f*x])^(n + 3)*((a + b*Ssin[e + f*x])^
(m + 1)/(b^2*d^3*f*(m + n + 5)*(m + n + 6))), x] + Simp[Cos[e + f*x]*(
d*Ssin[e + f*x])^(n + 4)*((a + b*Ssin[e + f*x])^(m + 1)/(b*d^4*f*(m + n
+ 6))), x] + Simp[1/(a^2*b^2*d^2*(n + 1)*(n + 2)*(m + n + 5)*(m + n +
6)) Int[(d*Ssin[e + f*x])^(n + 2)*(a + b*Ssin[e + f*x])^m*Simp[a^4*(n
+ 1)*(n + 2)*(n + 3)*(n + 5) - a^2*b^2*(n + 2)*(2*n + 1)*(m + n + 5)*(
m + n + 6) + b^4*(m + n + 2)*(m + n + 3)*(m + n + 5)*(m + n + 6) + a*b
*m*(a^2*(n + 1)*(n + 2) - b^2*(m + n + 5)*(m + n + 6))*Sin[e + f*x] -
(a^4*(n + 1)*(n + 2)*(4 + n)*(n + 5) + b^4*(m + n + 2)*(m + n + 4)*(m
+ n + 5)*(m + n + 6) - a^2*b^2*(n + 1)*(n + 2)*(m + n + 5)*(2*n + 2*m
+ 13))*Sin[e + f*x]^2, x], x] /; FreeQ[{a, b, d, e, f, m, n}, x]
&& NeQ[a^2 - b^2, 0] && IntegersQ[2*m, 2*n] && NeQ[n, -1] && NeQ[n, -2
] && NeQ[m + n + 5, 0] && NeQ[m + n + 6, 0] && !IGtQ[m, 0]
```

```
3376. Int[cos[(e_.) + (f_.)*(x_)]^(p_)*((d_.)*sin[(e_.) + (f_.)*(x_)])^(n_)*
((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_), x_Symbol] := Int[ExpandTrig
ig[(d*sin[e + f*x])^n*(a + b*sin[e + f*x])^m*(1 - sin[e + f*x]^2)^(p/2
), x], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0] && Integer
sQ[m, 2*n, p/2] && (LtQ[m, -1] || (EqQ[m, -1] && GtQ[p, 0]))
```

```
3377. Int[((cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*sin[(e_.) + (f_.)*(x_)]^(n_
))/((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]), x_Symbol] := Int[ExpandTrig[
(g*cos[e + f*x])^p, sin[e + f*x]^n/(a + b*sin[e + f*x]), x], x] /; Fre
eQ[{a, b, e, f, g, p}, x] && NeQ[a^2 - b^2, 0] && IntegerQ[n] && (LtQ[
n, 0] || IGtQ[p + 1/2, 0])
```

```
3378. Int[((cos[(e_.) + (f_.)*(x_)]*(g_.))^(p_)*((d_.)*sin[(e_.) + (f_.)*(x
_)])^(n_))/((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]), x_Symbol] := Simp[g^
2/a Int[(g*cos[e + f*x])^(p - 2)*(d*Ssin[e + f*x])^n, x], x] + (-Simp
```

- $$[b*(g^2/(a^2*d)) \text{ Int}[(g*\text{Cos}[e + f*x])^{(p-2)}*(d*\text{Sin}[e + f*x])^{(n+1)}, x], x] - \text{Simp}[g^2*((a^2 - b^2)/(a^2*d^2)) \text{ Int}[(g*\text{Cos}[e + f*x])^{(p-2)}*((d*\text{Sin}[e + f*x])^{(n+2)}/(a + b*\text{Sin}[e + f*x]))], x], x] /; \text{FreeQ}[\{a, b, d, e, f, g\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[2*n, 2*p] \&\& \text{GtQ}[p, 1] \&\& (\text{LeQ}[n, -2] \|\| (\text{EqQ}[n, -3/2] \&\& \text{EqQ}[p, 3/2]))$$
3379.
$$\text{Int}[(\text{Cos}[e] + f*x)(g)^{(p)}*(d*\text{Sin}[e] + f*x)^{(n)}] / ((a) + (b)*\text{Sin}[e] + f*x), x_Symbol] \rightarrow \text{Simp}[g^2/(a*b) \text{ Int}[(g*\text{Cos}[e + f*x])^{(p-2)}*(d*\text{Sin}[e + f*x])^n*(b - a*\text{Sin}[e + f*x]), x], x] + \text{Simp}[g^2*((a^2 - b^2)/(a*b*d)) \text{ Int}[(g*\text{Cos}[e + f*x])^{(p-2)}*((d*\text{Sin}[e + f*x])^{(n+1)}/(a + b*\text{Sin}[e + f*x]))], x], x] /; \text{FreeQ}[\{a, b, d, e, f, g\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[2*n, 2*p] \&\& \text{GtQ}[p, 1] \&\& (\text{LtQ}[n, -1] \|\| (\text{EqQ}[p, 3/2] \&\& \text{EqQ}[n, -2^{(-1)}]))$$
3380.
$$\text{Int}[(\text{Cos}[e] + f*x)(g)^{(p)}*(d*\text{Sin}[e] + f*x)^{(n)}] / ((a) + (b)*\text{Sin}[e] + f*x), x_Symbol] \rightarrow \text{Simp}[g^2/b^2 \text{ Int}[(g*\text{Cos}[e + f*x])^{(p-2)}*(d*\text{Sin}[e + f*x])^n*(a - b*\text{Sin}[e + f*x]), x], x] - \text{Simp}[g^2*((a^2 - b^2)/b^2) \text{ Int}[(g*\text{Cos}[e + f*x])^{(p-2)}*((d*\text{Sin}[e + f*x])^n/(a + b*\text{Sin}[e + f*x]))], x], x] /; \text{FreeQ}[\{a, b, d, e, f, g\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[2*n, 2*p] \&\& \text{GtQ}[p, 1]$$
3381.
$$\text{Int}[(\text{Cos}[e] + f*x)(g)^{(p)}*(d*\text{Sin}[e] + f*x)^{(n)}] / ((a) + (b)*\text{Sin}[e] + f*x), x_Symbol] \rightarrow \text{Simp}[a*(d^2/(a^2 - b^2)) \text{ Int}[(g*\text{Cos}[e + f*x])^p*(d*\text{Sin}[e + f*x])^{(n-2)}, x], x] + (-\text{Simp}[b*(d/(a^2 - b^2)) \text{ Int}[(g*\text{Cos}[e + f*x])^p*(d*\text{Sin}[e + f*x])^{(n-1)}, x], x] - \text{Simp}[a^2*(d^2/(g^2*(a^2 - b^2))) \text{ Int}[(g*\text{Cos}[e + f*x])^{(p+2)}*((d*\text{Sin}[e + f*x])^{(n-2)}/(a + b*\text{Sin}[e + f*x]))], x], x]) /; \text{FreeQ}[\{a, b, d, e, f, g\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[2*n, 2*p] \&\& \text{LtQ}[p, -1] \&\& \text{GtQ}[n, 1]$$
3382.
$$\text{Int}[(\text{Cos}[e] + f*x)(g)^{(p)}*(d*\text{Sin}[e] + f*x)^{(n)}] / ((a) + (b)*\text{Sin}[e] + f*x), x_Symbol] \rightarrow \text{Simp}[-d/(a^2 - b^2) \text{ Int}[(g*\text{Cos}[e + f*x])^p*(d*\text{Sin}[e + f*x])^{(n-1)}*(b - a*\text{Sin}[e + f*x]), x], x] + \text{Simp}[a*b*(d/(g^2*(a^2 - b^2))) \text{ Int}[(g*\text{Cos}[e + f*x])^{(p+2)}*((d*\text{Sin}[e + f*x])^{(n-1)}/(a + b*\text{Sin}[e + f*x]))], x], x] /; \text{FreeQ}[\{a, b, d, e, f, g\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[2*$$

- $n, 2*p]$ && LtQ[p, -1] && GtQ[n, 0]
3383. $\text{Int}[\left(\left(\cos[e] + (f)(x)\right)(g)\right)^p \left(\left(d\right)\sin[e] + (f)(x)\right)^n / \left(\left(a\right) + (b)\sin[e] + (f)(x)\right), x_Symbol] \rightarrow \text{Simp}\left[\frac{1}{a^2 - b^2} \text{Int}[(g \cos[e + f x])^p (d \sin[e + f x])^n (a - b \sin[e + f x]), x], x\right] - \text{Simp}\left[\frac{b^2}{g^2(a^2 - b^2)} \text{Int}[(g \cos[e + f x])^{p+2} (d \sin[e + f x])^n / (a + b \sin[e + f x]), x], x\right] /;$ FreeQ[{a, b, d, e, f, g}, x] && NeQ[a² - b², 0] && IntegersQ[2*n, 2*p] && LtQ[p, -1]
3384. $\text{Int}[\text{Sqrt}[\cos[e] + (f)(x)](g) / (\text{Sqrt}[\sin[e] + (f)(x)] * ((a) + (b)\sin[e] + (f)(x))), x_Symbol] \rightarrow \text{Simp}[-4 * \text{Sqrt}[2] * (g/f) \text{Subst}[\text{Int}[x^2 / ((a + b)g^2 + (a - b)x^4) * \text{Sqrt}[1 - x^4/g^2]], x], x, \text{Sqrt}[g \cos[e + f x]] / \text{Sqrt}[1 + \sin[e + f x]], x] /;$ FreeQ[{a, b, e, f, g}, x] && NeQ[a² - b², 0]
3385. $\text{Int}[\text{Sqrt}[\cos[e] + (f)(x)](g) / (\text{Sqrt}[(d)\sin[e] + (f)(x)] * ((a) + (b)\sin[e] + (f)(x))), x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[\sin[e + f x]] / \text{Sqrt}[d \sin[e + f x]] \text{Int}[\text{Sqrt}[g \cos[e + f x]] / (\text{Sqrt}[\sin[e + f x]] * (a + b \sin[e + f x])), x], x] /;$ FreeQ[{a, b, d, e, f, g}, x] && NeQ[a² - b², 0]
3386. $\text{Int}[\text{Sqrt}[(d)\sin[e] + (f)(x)] / (\text{Sqrt}[\cos[e] + (f)(x)] * ((a) + (b)\sin[e] + (f)(x))), x_Symbol] \rightarrow \text{With}[\{q = \text{Rt}[-a^2 + b^2, 2]\}, \text{Simp}[2 * \text{Sqrt}[2] * d * ((b + q) / (f * q)) \text{Subst}[\text{Int}[1 / ((d * (b + q) + a * x^2) * \text{Sqrt}[1 - x^4/d^2]), x], x, \text{Sqrt}[d \sin[e + f x]] / \text{Sqrt}[1 + \cos[e + f x]], x] - \text{Simp}[2 * \text{Sqrt}[2] * d * ((b - q) / (f * q)) \text{Subst}[\text{Int}[1 / ((d * (b - q) + a * x^2) * \text{Sqrt}[1 - x^4/d^2]), x], x, \text{Sqrt}[d \sin[e + f x]] / \text{Sqrt}[1 + \cos[e + f x]], x]] /;$ FreeQ[{a, b, d, e, f}, x] && NeQ[a² - b², 0]
3387. $\text{Int}[\text{Sqrt}[(d)\sin[e] + (f)(x)] / (\text{Sqrt}[\cos[e] + (f)(x)] * (g) * ((a) + (b)\sin[e] + (f)(x))), x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[\cos[e + f x]] / \text{Sqrt}[g \cos[e + f x]] \text{Int}[\text{Sqrt}[d \sin[e + f x]] / (\text{Sqrt}[\cos[e + f x]] * (a + b \sin[e + f x])), x], x] /;$ FreeQ[{a, b, d, e, f, g}, x] && NeQ[a² - b², 0]

3388. $\text{Int}[(\cos[e] + (f \cdot x) \cdot g)^p \cdot (d \cdot \sin[e] + (f \cdot x))]^n / ((a) + (b \cdot \sin[e] + (f \cdot x)))$, x_Symbol] $\rightarrow \text{Simp}[d/b \cdot \text{Int}[(g \cdot \cos[e + f \cdot x])^p \cdot (d \cdot \sin[e + f \cdot x])^{n-1}]$, x] - $\text{Simp}[a \cdot (d/b) \cdot \text{Int}[(g \cdot \cos[e + f \cdot x])^p \cdot (d \cdot \sin[e + f \cdot x])^{n-1} / (a + b \cdot \sin[e + f \cdot x])]$, x] /; $\text{FreeQ}\{a, b, d, e, f, g\}, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[2 \cdot n, 2 \cdot p] \ \&\& \ \text{LtQ}[-1, p, 1] \ \&\& \ \text{GtQ}[n, 0]$
3389. $\text{Int}[(\cos[e] + (f \cdot x) \cdot g)^p \cdot (d \cdot \sin[e] + (f \cdot x))]^n / ((a) + (b \cdot \sin[e] + (f \cdot x)))$, x_Symbol] $\rightarrow \text{Simp}[1/a \cdot \text{Int}[(g \cdot \cos[e + f \cdot x])^p \cdot (d \cdot \sin[e + f \cdot x])^n]$, x] - $\text{Simp}[b/(a \cdot d) \cdot \text{Int}[(g \cdot \cos[e + f \cdot x])^p \cdot (d \cdot \sin[e + f \cdot x])^{n+1} / (a + b \cdot \sin[e + f \cdot x])]$, x] /; $\text{FreeQ}\{a, b, d, e, f, g\}, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[2 \cdot n, 2 \cdot p] \ \&\& \ \text{LtQ}[-1, p, 1] \ \&\& \ \text{LtQ}[n, 0]$
3390. $\text{Int}[(\cos[e] + (f \cdot x) \cdot g)^p \cdot (d \cdot \sin[e] + (f \cdot x))]^n \cdot ((a) + (b \cdot \sin[e] + (f \cdot x)))^2$, x_Symbol] $\rightarrow \text{Simp}[2 \cdot a \cdot (b/d) \cdot \text{Int}[(g \cdot \cos[e + f \cdot x])^p \cdot (d \cdot \sin[e + f \cdot x])^{n+1}]$, x] + $\text{Int}[(g \cdot \cos[e + f \cdot x])^p \cdot (d \cdot \sin[e + f \cdot x])^n \cdot (a^2 + b^2 \cdot \sin[e + f \cdot x]^2)]$, x] /; $\text{FreeQ}\{a, b, d, e, f, g, n, p\}, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
3391. $\text{Int}[(\cos[e] + (f \cdot x) \cdot g)^p \cdot (d \cdot \sin[e] + (f \cdot x))]^n \cdot ((a) + (b \cdot \sin[e] + (f \cdot x)))^m$, x_Symbol] $\rightarrow \text{Int}[\text{ExpandTrig}[(g \cdot \cos[e + f \cdot x])^p \cdot (d \cdot \sin[e + f \cdot x])^n \cdot (a + b \cdot \sin[e + f \cdot x])^m]$, x] /; $\text{FreeQ}\{a, b, d, e, f, g, n, p\}, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ (\text{GtQ}[m, 0] \ || \ \text{IntegerQ}[n])$
3392. $\text{Int}[(\cos[e] + (f \cdot x) \cdot g)^p \cdot (d \cdot \sin[e] + (f \cdot x))]^n \cdot ((a) + (b \cdot \sin[e] + (f \cdot x)))^m$, x_Symbol] $\rightarrow \text{Simp}[g^2/a \cdot \text{Int}[(g \cdot \cos[e + f \cdot x])^{p-2} \cdot (d \cdot \sin[e + f \cdot x])^n \cdot (a + b \cdot \sin[e + f \cdot x])^{m+1}]$, x] + $(-\text{Simp}[b \cdot (g^2/(a^2 \cdot d)) \cdot \text{Int}[(g \cdot \cos[e + f \cdot x])^{p-2} \cdot (d \cdot \sin[e + f \cdot x])^{n+1} \cdot (a + b \cdot \sin[e + f \cdot x])^{m+1}]$, x] - $\text{Simp}[g^2 \cdot ((a^2 - b^2)/(a^2 \cdot d^2)) \cdot \text{Int}[(g \cdot \cos[e + f \cdot x])^{p-2} \cdot (d \cdot \sin[e + f \cdot x])^{n+2} \cdot (a + b \cdot \sin[e + f \cdot x])^m]$, x]) /; $\text{FreeQ}\{a, b, d, e, f, g\}, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[m, 2 \cdot n, 2 \cdot p] \ \&\& \ \text{LtQ}[m, 0] \ \&\& \ \text{GtQ}[p, 1] \ \&\& \ (\text{LeQ}[n, -2] \ || \ (\text{EqQ}[m, -1] \ \&\& \ \text{EqQ}[n, -3/2] \ \&\& \ \text{EqQ}[p, 3/2]))$

3393. $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^{(p_.)} * ((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[a^{(2*m)} \text{Int}[(c + d*\sin[e + f*x])^n / (a - b*\sin[e + f*x])^m, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, n\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[m, p] \ \&\& \ \text{EqQ}[2*m + p, 0]$
3394. $\text{Int}[(\cos[(e_.) + (f_.)(x_.)] * (g_.))^{(p_.)} * ((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(a/g)^{(2*m)} \text{Int}[(g*\cos[e + f*x])^{(2*m + p)} * (c + d*\sin[e + f*x])^n / (a - b*\sin[e + f*x])^m, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g, n\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ (\text{EqQ}[2*m + p, 0] \ || \ (\text{GtQ}[2*m + p, 0] \ \&\& \ \text{LtQ}[p, -1]))$
3395. $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^{2*} * ((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[1/b^2 \text{Int}[(a + b*\sin[e + f*x])^{(m + 1)} * (c + d*\sin[e + f*x])^n * (a - b*\sin[e + f*x]), x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*n]$
3396. $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^{(p_.)} * ((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[a^m * (\text{Cos}[e + f*x] / (f*\text{Sqrt}[1 + \text{Sin}[e + f*x]] * \text{Sqrt}[1 - \text{Sin}[e + f*x]])) \text{Subst}[\text{Int}[(1 + (b/a)*x)^{(m + (p - 1)/2)} * (1 - (b/a)*x)^{(p - 1)/2} * (c + d*x)^n, x], x, \text{Sin}[e + f*x]], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, n\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[p/2] \ \&\& \ \text{IntegerQ}[m]$
3397. $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^{(p_.)} * ((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Cos}[e + f*x] / (a^{(p - 2)} * f * \text{Sqrt}[a + b*\sin[e + f*x]] * \text{Sqrt}[a - b*\sin[e + f*x]]) \text{Subst}[\text{Int}[(a + b*x)^{(m + p/2 - 1/2)} * (a - b*x)^{(p/2 - 1/2)} * (c + d*x)^n, x], x, \text{Sin}[e + f*x]], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[p/2] \ \&\& \ !\text{IntegerQ}[m]$
3398. $\text{Int}[(\cos[(e_.) + (f_.)(x_.)] * (g_.))^{(p_.)} * ((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(g*\cos[e + f*x])^p, (a + b*\sin[e + f*x])^m * (c + d*\sin[e + f*x])^n, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g, n, p\}, x\} \ \&\& \ \text{EqQ}[$

$a^2 - b^2, 0]$ && IGtQ[m, 0] && (IntegerQ[p] || IGtQ[n, 0])

3399. $\text{Int}[(\cos[e + f x] + (f x) g)^p ((a + b \sin[e + f x])^m ((c + d \sin[e + f x])^n), x_{\text{Symbol}}]$
 $\rightarrow \text{Simp}[a^m g ((g \cos[e + f x])^{p-1} / (f (1 + \sin[e + f x])^{(p-1)/2} (1 - \sin[e + f x])^{(p-1)/2})) \text{Subst}[\text{Int}[(1 + (b/a)x)^{m+(p-1)/2} (1 - (b/a)x)^{(p-1)/2} (c + dx)^n, x], x, \sin[e + f x]], x] /;$ FreeQ[{a, b, c, d, e, f, n, p}, x] && EqQ[a² - b², 0] && IntegerQ[m]
3400. $\text{Int}[(\cos[e + f x] + (f x) g)^p ((a + b \sin[e + f x])^m ((c + d \sin[e + f x])^n), x_{\text{Symbol}}]$
 $\rightarrow \text{Simp}[g ((g \cos[e + f x])^{p-1} / (f (a + b \sin[e + f x])^{(p-1)/2} (a - b \sin[e + f x])^{(p-1)/2})) \text{Subst}[\text{Int}[(a + bx)^{m+(p-1)/2} (a - bx)^{(p-1)/2} (c + dx)^n, x], x, \sin[e + f x]], x] /;$ FreeQ[{a, b, c, d, e, f, m, n, p}, x] && EqQ[a² - b², 0] && !IntegerQ[m]
3401. $\text{Int}[\cos[e + f x] + (f x) g]^{2m} ((a + b \sin[e + f x])^m ((c + d \sin[e + f x])^n), x_{\text{Symbol}}]$
 $\rightarrow \text{Int}[(a + b \sin[e + f x])^{2m} (c + d \sin[e + f x])^{2n} (1 - \sin[e + f x]^2), x] /;$ FreeQ[{a, b, c, d, e, f, m, n}, x] && NeQ[a² - b², 0] && (IGtQ[m, 0] || IntegersQ[2*m, 2*n])
3402. $\text{Int}[\cos[e + f x] + (f x) g]^p ((a + b \sin[e + f x])^m ((c + d \sin[e + f x])^n), x_{\text{Symbol}}]$
 $\rightarrow \text{Int}[\text{ExpandTrig}[(a + b \sin[e + f x])^m (c + d \sin[e + f x])^{2n} (1 - \sin[e + f x]^2)^{p/2}, x], x] /;$ FreeQ[{a, b, c, d, e, f, m, n}, x] && NeQ[a² - b², 0] && IGtQ[p/2, 0] && (IGtQ[m, 0] || IntegersQ[2*m, 2*n])
3403. $\text{Int}[(\cos[e + f x] + (f x) g)^p ((a + b \sin[e + f x])^m ((c + d \sin[e + f x])^n), x_{\text{Symbol}}]$
 $\rightarrow \text{Int}[\text{ExpandTrig}[(g \cos[e + f x])^p (a + b \sin[e + f x])^m (c + d \sin[e + f x])^{2n}, x], x] /;$ FreeQ[{a, b, c, d, e, f, g, p}, x] && NeQ[a² - b², 0] && IntegersQ[2*m, 2*n]

3404. $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(g_.))^p*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_)])^m*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)])^n, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(g*\cos[e + f*x])^p*(a + b*\sin[e + f*x])^m*(c + d*\sin[e + f*x])^n, x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p, x\} \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
3405. $\text{Int}[(g_.)\sec[(e_.) + (f_.)(x_)]^p*((a_.) + (b_.)\sin[(e_.) + (f_.)(x_)])^m*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)])^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[g^{2*\text{IntPart}[p]}*(g*\cos[e + f*x])^{\text{FracPart}[p]}*(g*\sec[e + f*x])^{\text{FracPart}[p]} \text{Int}[(a + b*\sin[e + f*x])^m*((c + d*\sin[e + f*x])^n/(g*\cos[e + f*x])^p), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p, x\} \ \&\& \ !\text{IntegerQ}[p]$
3406. $\text{Int}[(a_.) + \cos[(e_.) + (f_.)(x_)]*(b_.)]^m*((c_.) + \cos[(e_.) + (f_.)(x_)]*(d_.))^n*(\csc[(e_.) + (f_.)(x_)]*(g_.))^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[g^{2*\text{IntPart}[p]}*(g*\sin[e + f*x])^{\text{FracPart}[p]}*(g*\csc[e + f*x])^{\text{FracPart}[p]} \text{Int}[(a + b*\cos[e + f*x])^m*((c + d*\cos[e + f*x])^n/(g*\sin[e + f*x])^p), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p, x\} \ \&\& \ !\text{IntegerQ}[p]$
3407. $\text{Int}[(\text{Sqrt}[(g_.)\sin[(e_.) + (f_.)(x_)]])*\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)(x_)]])/((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)]), x_{\text{Symbol}}] \rightarrow \text{Simp}[g/d \ \text{Int}[\text{Sqrt}[a + b*\sin[e + f*x]]/\text{Sqrt}[g*\sin[e + f*x]], x], x] - \text{Simp}[c*(g/d \ \text{Int}[\text{Sqrt}[a + b*\sin[e + f*x]]/(\text{Sqrt}[g*\sin[e + f*x]]*(c + d*\sin[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, x\} \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ (\text{EqQ}[a^2 - b^2, 0] \ || \ \text{EqQ}[c^2 - d^2, 0])]$
3408. $\text{Int}[(\text{Sqrt}[(g_.)\sin[(e_.) + (f_.)(x_)]])*\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)(x_)]])/((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)]), x_{\text{Symbol}}] \rightarrow \text{Simp}[b/d \ \text{Int}[\text{Sqrt}[g*\sin[e + f*x]]/\text{Sqrt}[a + b*\sin[e + f*x]], x], x] - \text{Simp}[(b*c - a*d)/d \ \text{Int}[\text{Sqrt}[g*\sin[e + f*x]]/(\text{Sqrt}[a + b*\sin[e + f*x]]*(c + d*\sin[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, x\} \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$
3409. $\text{Int}[\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)(x_)]]/(\text{Sqrt}[(g_.)\sin[(e_.) + (f_.)(x_)])*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_)])], x_{\text{Symbol}}] \rightarrow \text{Simp}[-2*(b/f) \ \text{Subst}[\text{Int}[1/(b*c + a*d + c*g*x^2), x], x, b*(\cos[e + f*x$

-]/(Sqrt[g*Sin[e + f*x]]*Sqrt[a + b*Sin[e + f*x]])), x] /; FreeQ[{a, b, c, d, e, f, g}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0]
3410. Int[Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)]]/(Sqrt[sin[(e_) + (f_)*(x_)]*(c_) + (d_)*sin[(e_) + (f_)*(x_)])], x_Symbol] :> Simp[(-Sqrt[a + b]/(c*f))*EllipticE[ArcSin[Cos[e + f*x]/(1 + Sin[e + f*x])], -(a - b)/(a + b)], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[d, c] && GtQ[b^2 - a^2, 0] && GtQ[b, 0]
3411. Int[Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)]]/(Sqrt[(g_)*sin[(e_) + (f_)*(x_)]]*(c_) + (d_)*sin[(e_) + (f_)*(x_)])], x_Symbol] :> Simp[(-Sqrt[a + b*Sin[e + f*x]]*(Sqrt[d*(Sin[e + f*x]/(c + d*Sin[e + f*x]))]/(d*f*Sqrt[g*Sin[e + f*x]]*Sqrt[c^2*((a + b*Sin[e + f*x])/((a*c + b*d)*(c + d*Sin[e + f*x])))])))*EllipticE[ArcSin[c*(Cos[e + f*x]/(c + d*Sin[e + f*x]))], (b*c - a*d)/(b*c + a*d)], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && EqQ[c^2 - d^2, 0]
3412. Int[Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)]]/(Sqrt[(g_)*sin[(e_) + (f_)*(x_)]]*(c_) + (d_)*sin[(e_) + (f_)*(x_)])], x_Symbol] :> Simp[a/c Int[1/(Sqrt[g*Sin[e + f*x]]*Sqrt[a + b*Sin[e + f*x]]), x], x] + Simp[(b*c - a*d)/(c*g) Int[Sqrt[g*Sin[e + f*x]]/(Sqrt[a + b*Sin[e + f*x]]*(c + d*Sin[e + f*x])), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]
3413. Int[Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)]]/(sin[(e_) + (f_)*(x_)]]*(c_) + (d_)*sin[(e_) + (f_)*(x_)])], x_Symbol] :> Simp[1/c Int[Sqrt[a + b*Sin[e + f*x]]/Sin[e + f*x], x], x] - Simp[d/c Int[Sqrt[a + b*Sin[e + f*x]]/(c + d*Sin[e + f*x]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0]
3414. Int[Sqrt[(a_) + (b_)*sin[(e_) + (f_)*(x_)]]/(sin[(e_) + (f_)*(x_)]]*(c_) + (d_)*sin[(e_) + (f_)*(x_)])], x_Symbol] :> Simp[a/c Int[1/(Sin[e + f*x]*Sqrt[a + b*Sin[e + f*x]]), x], x] + Simp[(b*c - a*d)/c Int[1/(Sqrt[a + b*Sin[e + f*x]]*(c + d*Sin[e + f*x])), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0]

3415. $\text{Int}[\text{Sqrt}[(g_.)\sin[(e_.) + (f_.)(x_.)]]/(\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])), x_Symbol] \text{ :> Simp}[-a*(g/(b*c - a*d)) \text{ Int}[1/(\text{Sqrt}[g*\text{Sin}[e + f*x]]*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]), x], x] + \text{Simp}[c*(g/(b*c - a*d)) \text{ Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/(\text{Sqrt}[g*\text{Sin}[e + f*x]]*(c + d*\text{Sin}[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& (\text{EqQ}[a^2 - b^2, 0] \|\| \text{EqQ}[c^2 - d^2, 0])$
3416. $\text{Int}[\text{Sqrt}[(g_.)\sin[(e_.) + (f_.)(x_.)]]/(\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])), x_Symbol] \text{ :> Simp}[2*\text{Sqrt}[-\text{Cot}[e + f*x]^2]*(\text{Sqrt}[g*\text{Sin}[e + f*x]]/(f*(c + d)*\text{Cot}[e + f*x]*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]))*\text{Sqrt}[(b + a*\text{Csc}[e + f*x])/(a + b)]*\text{EllipticPi}[2*(c/(c + d)), \text{ArcSin}[\text{Sqrt}[1 - \text{Csc}[e + f*x]]/\text{Sqrt}[2]], 2*(a/(a + b))], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3417. $\text{Int}[1/(\text{Sqrt}[(g_.)\sin[(e_.) + (f_.)(x_.)])*\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])), x_Symbol] \text{ :> Simp}[b/(b*c - a*d) \text{ Int}[1/(\text{Sqrt}[g*\text{Sin}[e + f*x]]*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]), x], x] - \text{Simp}[d/(b*c - a*d) \text{ Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/(\text{Sqrt}[g*\text{Sin}[e + f*x]]*(c + d*\text{Sin}[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& (\text{EqQ}[a^2 - b^2, 0] \|\| \text{EqQ}[c^2 - d^2, 0])$
3418. $\text{Int}[1/(\text{Sqrt}[(g_.)\sin[(e_.) + (f_.)(x_.)])*\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])), x_Symbol] \text{ :> Simp}[1/c \text{ Int}[1/(\text{Sqrt}[g*\text{Sin}[e + f*x]]*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]), x], x] - \text{Simp}[d/(c*g) \text{ Int}[\text{Sqrt}[g*\text{Sin}[e + f*x]]/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(c + d*\text{Sin}[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3419. $\text{Int}[1/(\sin[(e_.) + (f_.)(x_.)]*\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)])*((c_.) + (d_.)\sin[(e_.) + (f_.)(x_.)])), x_Symbol] \text{ :> Simp}[d^2/(c*(b*c - a*d)) \text{ Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/(c + d*\text{Sin}[e + f*x]), x], x] + \text{Simp}[1/(c*(b*c - a*d)) \text{ Int}[(b*c - a*d - b*d*\text{Sin}[e + f*x])/(\text{Sin}[e + f*x]*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$

3420. $\text{Int}[1/(\sin[(e_{_}) + (f_{_})*(x_{_})]*\text{Sqrt}[(a_{_}) + (b_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]])*((c_{_}) + (d_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})])], x_Symbol] \rightarrow \text{Simp}[1/c \text{ Int}[1/(\text{Sin}[e + f*x]*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]), x], x] - \text{Simp}[d/c \text{ Int}[1/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(c + d*\text{Sin}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0]$
3421. $\text{Int}[\text{Sqrt}[(a_{_}) + (b_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]]/(\sin[(e_{_}) + (f_{_})*(x_{_})]*\text{Sqrt}[(c_{_}) + (d_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]]), x_Symbol] \rightarrow \text{Simp}[-d/c \text{ Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/\text{Sqrt}[c + d*\text{Sin}[e + f*x]], x], x] + \text{Simp}[1/c \text{ Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(\text{Sqrt}[c + d*\text{Sin}[e + f*x]]/\text{Sin}[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[b*c + a*d, 0]$
3422. $\text{Int}[\text{Sqrt}[(a_{_}) + (b_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]]/(\sin[(e_{_}) + (f_{_})*(x_{_})]*\text{Sqrt}[(c_{_}) + (d_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]]), x_Symbol] \rightarrow \text{Simp}[-2*(a/f) \text{ Subst}[\text{Int}[1/(1 - a*c*x^2), x], x, \text{Cos}[e + f*x]/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]])], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[b*c + a*d, 0]$
3423. $\text{Int}[\text{Sqrt}[(a_{_}) + (b_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]]/(\sin[(e_{_}) + (f_{_})*(x_{_})]*\text{Sqrt}[(c_{_}) + (d_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]]), x_Symbol] \rightarrow \text{Simp}[(b*c - a*d)/c \text{ Int}[1/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x], x] + \text{Simp}[a/c \text{ Int}[\text{Sqrt}[c + d*\text{Sin}[e + f*x]]/(\text{Sin}[e + f*x]*\text{Sqrt}[a + b*\text{Sin}[e + f*x]]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{EqQ}[c^2 - d^2, 0]$
3424. $\text{Int}[\text{Sqrt}[(a_{_}) + (b_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]]/(\sin[(e_{_}) + (f_{_})*(x_{_})]*\text{Sqrt}[(c_{_}) + (d_{_})*\sin[(e_{_}) + (f_{_})*(x_{_})]]), x_Symbol] \rightarrow \text{Simp}[-2*((a + b*\text{Sin}[e + f*x])/(c*f*\text{Rt}[(a + b)/(c + d), 2]*\text{Cos}[e + f*x]))*\text{Sqrt}[(-(b*c - a*d))*((1 - \text{Sin}[e + f*x])/((c + d)*(a + b*\text{Sin}[e + f*x])))]*\text{Sqrt}[(b*c - a*d)*((1 + \text{Sin}[e + f*x])/((c - d)*(a + b*\text{Sin}[e + f*x])))]*\text{EllipticPi}[a*((c + d)/(c*(a + b))), \text{ArcSin}[\text{Rt}[(a + b)/(c + d), 2]*(\text{Sqrt}[c + d*\text{Sin}[e + f*x]]/\text{Sqrt}[a + b*\text{Sin}[e + f*x]])], (a - b)*((c + d)/((a + b)*(c - d)))]], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$

3425. $\text{Int}[1/(\sin[(e_.) + (f_.)(x_)]*\text{Sqrt}[(a_) + (b_.)*\sin[(e_.) + (f_.)(x_)])]*\text{Sqrt}[(c_) + (d_.)*\sin[(e_.) + (f_.)(x_)]], x_Symbol] \rightarrow \text{Simp}[\text{Cos}[e + f*x]/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]) \text{Int}[1/(\text{Cos}[e + f*x]*\text{Sin}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[c^2 - d^2, 0]$
3426. $\text{Int}[1/(\sin[(e_.) + (f_.)(x_)]*\text{Sqrt}[(a_) + (b_.)*\sin[(e_.) + (f_.)(x_)])]*\text{Sqrt}[(c_) + (d_.)*\sin[(e_.) + (f_.)(x_)]], x_Symbol] \rightarrow \text{Simp}[-b/a \text{Int}[1/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x], x] + \text{Simp}[1/a \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/(\text{Sin}[e + f*x]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& (\text{NeQ}[a^2 - b^2, 0] || \text{NeQ}[c^2 - d^2, 0])$
3427. $\text{Int}[(\text{Sqrt}[(a_) + (b_.)*\sin[(e_.) + (f_.)(x_)])]*\text{Sqrt}[(c_) + (d_.)*\sin[(e_.) + (f_.)(x_)]]/\sin[(e_.) + (f_.)(x_)], x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(\text{Sqrt}[c + d*\text{Sin}[e + f*x]]/\text{Cos}[e + f*x]) \text{Int}[\text{Cot}[e + f*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[c^2 - d^2, 0]$
3428. $\text{Int}[(\text{Sqrt}[(a_) + (b_.)*\sin[(e_.) + (f_.)(x_)])]*\text{Sqrt}[(c_) + (d_.)*\sin[(e_.) + (f_.)(x_)]]/\sin[(e_.) + (f_.)(x_)], x_Symbol] \rightarrow \text{Simp}[d \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/\text{Sqrt}[c + d*\text{Sin}[e + f*x]], x], x] + \text{Simp}[c \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/(\text{Sin}[e + f*x]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& (\text{NeQ}[a^2 - b^2, 0] || \text{NeQ}[c^2 - d^2, 0])$
3429. $\text{Int}[\sin[(e_.) + (f_.)(x_)]^{(p_)}*((a_) + (b_.)*\sin[(e_.) + (f_.)(x_)])^{(m_)}*((c_) + (d_.)*\sin[(e_.) + (f_.)(x_)]^{(n_)}, x_Symbol] \rightarrow \text{Simp}[a^n*c^n \text{Int}[\text{Tan}[e + f*x]^p*(a + b*\text{Sin}[e + f*x])^{(m - n)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[p + 2*n, 0] \&\& \text{IntegerQ}[n]$
3430. $\text{Int}[(g_.)*\sin[(e_.) + (f_.)(x_)]^{(p_)}*((a_) + (b_.)*\sin[(e_.) + (f_.)(x_)]^{(m_)}*((c_) + (d_.)*\sin[(e_.) + (f_.)(x_)]^{(n_)}, x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[a - b*\text{Sin}[e + f*x]]*(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/(f*\text{Cos}[e + f*x])) \text{Subst}[\text{Int}[(g*x)^p*(a + b*x)^{(m - 1/2)}*((c + d*x)^n/\text{Sqrt}[a - b*x]), x], x, \text{Sin}[e + f*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}$

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, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] &&
IntegerQ[m - 1/2]

3431. Int[((g_)*sin[(e_) + (f_)*(x_)])^(p_)*((a_) + (b_)*sin[(e_) + (f_
)*(x)])^(m_)*((c_) + (d_)*sin[(e_) + (f_)*(x_)])^(n_), x_Symbol]
:> Int[ExpandTrig[(g*sin[e + f*x])^p*(a + b*sin[e + f*x])^m*(c + d*sin
[e + f*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, n, p}, x] && NeQ[b
*c - a*d, 0] && (IntegersQ[m, n] || IntegersQ[m, p] || IntegersQ[n, p]
) && NeQ[p, 2]

3432. Int[((g_)*sin[(e_) + (f_)*(x_)])^(p_)*((a_) + (b_)*sin[(e_) + (f_
)*(x)])^(m_)*((c_) + (d_)*sin[(e_) + (f_)*(x_)])^(n_), x_Symbol]
:> Unintegrable[(g*Sin[e + f*x])^p*(a + b*Sin[e + f*x])^m*(c + d*Sin[e
+ f*x])^n, x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && NeQ[p, 2
]

3433. Int[((a_) + csc[(e_) + (f_)*(x_)])*(b_)^(m_)*(csc[(e_) + (f_)*(
x_)])*(d_) + (c_))^(n_)*((g_)*sin[(e_) + (f_)*(x_)])^(p_), x_Symb
ol] :> Simp[g^(m + n) Int[(g*Sin[e + f*x])^(p - m - n)*(b + a*Sin[e
+ f*x])^m*(d + c*Sin[e + f*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g
, p}, x] && NeQ[b*c - a*d, 0] && !IntegerQ[p] && IntegerQ[m] && Integ
erQ[n]

3434. Int[((a_) + csc[(e_) + (f_)*(x_)])*(b_)^(m_)*(csc[(e_) + (f_)*(
x_)])*(d_) + (c_))^(n_)*((g_)*sin[(e_) + (f_)*(x_)])^(p_), x_Symb
ol] :> Simp[(g*Csc[e + f*x])^p*(g*Sin[e + f*x])^p Int[(a + b*Csc[e +
f*x])^m*((c + d*Csc[e + f*x])^n/(g*Csc[e + f*x])^p), x], x] /; FreeQ[
{a, b, c, d, e, f, g, m, n, p}, x] && NeQ[b*c - a*d, 0] && !IntegerQ[
p] && !(IntegerQ[m] && IntegerQ[n])

3435. Int[(csc[(e_) + (f_)*(x_)])*(d_) + (c_))^(n_)*((g_)*sin[(e_) + (f
)*(x)])^(p_)*((a_) + (b_)*sin[(e_) + (f_)*(x_)])^(m_), x_Symbo
l] :> Simp[g^n Int[(g*Sin[e + f*x])^(p - n)*(a + b*Sin[e + f*x])^m*(
d + c*Sin[e + f*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p}, x]
&& IntegerQ[n]

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3436.  $\text{Int}[(\text{csc}[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}) + (c_{.}))^{(n_{.})}*\sin[(e_{.}) + (f_{.})*(x_{.})]^{(p_{.})}*((a_{.}) + (b_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}, x\_Symbol] \rightarrow \text{Int}[(b + a*\text{Csc}[e + f*x])^m*((c + d*\text{Csc}[e + f*x])^n/\text{Csc}[e + f*x]^{(m + p)}), x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{!IntegerQ}[n] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[p]$
3437.  $\text{Int}[(\text{csc}[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}) + (c_{.}))^{(n_{.})}*((g_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(p_{.})}*((a_{.}) + (b_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}, x\_Symbol] \rightarrow \text{Simp}[\text{Csc}[e + f*x]^p*(g*\text{Sin}[e + f*x])^p \text{Int}[(b + a*\text{Csc}[e + f*x])^m*((c + d*\text{Csc}[e + f*x])^n/\text{Csc}[e + f*x]^{(m + p)}), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p\}, x] \&\& \text{!IntegerQ}[n] \&\& \text{IntegerQ}[m] \&\& \text{!IntegerQ}[p]$
3438.  $\text{Int}[(\text{csc}[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}) + (c_{.}))^{(n_{.})}*((g_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(p_{.})}*((a_{.}) + (b_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}, x\_Symbol] \rightarrow \text{Simp}[(g*\text{Sin}[e + f*x])^n*((c + d*\text{Csc}[e + f*x])^n/(d + c*\text{Sin}[e + f*x])^n) \text{Int}[(g*\text{Sin}[e + f*x])^{(p - n)}*(a + b*\text{Sin}[e + f*x])^m*(d + c*\text{Sin}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{!IntegerQ}[n] \&\& \text{!IntegerQ}[m]$
3439.  $\text{Int}[(\text{csc}[(e_{.}) + (f_{.})*(x_{.})]*(g_{.}))^{(p_{.})}*((a_{.}) + (b_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}*((c_{.}) + (d_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})}, x\_Symbol] \rightarrow \text{Simp}[g^{(m + n)} \text{Int}[(g*\text{Csc}[e + f*x])^{(p - m - n)}*(b + a*\text{Csc}[e + f*x])^m*(d + c*\text{Csc}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, p\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{!IntegerQ}[p] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[n]$
3440.  $\text{Int}[(\text{csc}[(e_{.}) + (f_{.})*(x_{.})]*(g_{.}))^{(p_{.})}*((a_{.}) + (b_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}*((c_{.}) + (d_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})}, x\_Symbol] \rightarrow \text{Simp}[(g*\text{Csc}[e + f*x])^p*(g*\text{Sin}[e + f*x])^p \text{Int}[(a + b*\text{Sin}[e + f*x])^m*((c + d*\text{Sin}[e + f*x])^n/(g*\text{Sin}[e + f*x])^p), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{!IntegerQ}[p] \&\& \text{!(IntegerQ}[m] \&\& \text{IntegerQ}[n])]$
3441.  $\text{Int}[(\text{csc}[(e_{.}) + (f_{.})*(x_{.})]*(g_{.}))^{(p_{.})}*(\text{csc}[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}) + (c_{.}))^{(n_{.})}*((a_{.}) + (b_{.})*\sin[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}, x\_Symbol] \rightarrow \text{Simp}[g^m \text{Int}[(g*\text{Csc}[e + f*x])^{(p - m)}*(b + a*\text{Csc}[e + f*x])^m*($

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c + d*Csc[e + f*x]]^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, n, p}, x]
&& IntegerQ[m]

3442. Int[csc[(e_.) + (f_.)*(x_)]^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_.)^(n_.)*((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(m_.), x_Symbol] :> Int
[(a + b*Sin[e + f*x]]^m*((d + c*Sin[e + f*x]]^n/Sin[e + f*x]^(n + p)),
x] /; FreeQ[{a, b, c, d, e, f, m}, x] && !IntegerQ[m] && IntegerQ[n]
&& IntegerQ[p]

3443. Int[(csc[(e_.) + (f_.)*(x_)]*(g_.))^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_.)^(n_.)*((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(m_.), x_Symbol]
:> Simp[Sin[e + f*x]^p*(g*Csc[e + f*x]]^p Int[(a + b*Sin[e + f*x]]^m*((d + c*Sin[e + f*x]]^n/Sin[e + f*x]^(n + p)), x], x] /; FreeQ[{a, b, c, d, e, f, g, m, p}, x] && !IntegerQ[m] && IntegerQ[n] && !IntegerQ[p]

3444. Int[(csc[(e_.) + (f_.)*(x_)]*(g_.))^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_.)^(n_.)*((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(m_.), x_Symbol]
:> Simp[(a + b*Sin[e + f*x]]^m*((g*Csc[e + f*x]]^m/(b + a*Csc[e + f*x]]^m) Int[(g*Csc[e + f*x]]^(p - m)*(b + a*Csc[e + f*x]]^m*(c + d*Csc[e + f*x]]^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && !IntegerQ[m] && !IntegerQ[n]

3445. Int[sin[(e_.) + (f_.)*(x_)]^(n_.)*((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(m_.)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)]), x_Symbol] :> Int[ExpandTrig[sin[e + f*x]^n*(a + b*sin[e + f*x]]^m*(A + B*sin[e + f*x]), x], x] /; FreeQ[{a, b, e, f, A, B}, x] && EqQ[A*b + a*B, 0] && EqQ[a^2 - b^2, 0] && IntegerQ[m] && IntegerQ[n]

3446. Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(m_.)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]^(n_.), x_Symbol] :> Simp[a^m*c^m Int[Cos[e + f*x]^(2*m)*(c + d*Sin[e + f*x]]^(n - m)*(A + B*Sin[e + f*x]), x], x] /; FreeQ[{a, b, c, d, e, f, A, B, n}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && IntegerQ[m] && !(IntegerQ[n] && ((LtQ[m, 0] && GtQ[n, 0]) || LtQ[0, n, m] || LtQ[m, n, 0]))

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3447. `Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_.)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]), x_Symbol]
:> Int[(a + b*Sin[e + f*x])^m*(A*c + (B*c + A*d)*Sin[e + f*x] + B*d*Sin[e + f*x]^2), x] /; FreeQ[{a, b, c, d, e, f, A, B, m}, x] && NeQ[b*c - a*d, 0]`
3448. `Int[((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)])/(Sqrt[(a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])*Sqrt[(c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]]), x_Symbol]
:> Simp[(A*b + a*B)/(2*a*b) Int[Sqrt[a + b*Sin[e + f*x]]/Sqrt[c + d*Sin[e + f*x]], x], x] + Simp[(B*c + A*d)/(2*c*d) Int[Sqrt[c + d*Sin[e + f*x]]/Sqrt[a + b*Sin[e + f*x]], x], x] /; FreeQ[{a, b, c, d, e, f, A, B}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0]`
3449. `Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_.)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]^(n_.), x_Symbol]
:> Simp[(-B)*Cos[e + f*x]*(a + b*Sin[e + f*x])^m*((c + d*Sin[e + f*x])^n/(f*(m + n + 1))), x] /; FreeQ[{a, b, c, d, e, f, A, B, m, n}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && EqQ[A*b*(m + n + 1) + a*B*(m - n), 0] && NeQ[m, -2^(-1)]`
3450. `Int[Sqrt[(a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]^(n_.), x_Symbol]
:> Simp[B/d Int[Sqrt[a + b*Sin[e + f*x]]*(c + d*Sin[e + f*x])^(n + 1), x], x] - Simp[(B*c - A*d)/d Int[Sqrt[a + b*Sin[e + f*x]]*(c + d*Sin[e + f*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, A, B, n}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0]`
3451. `Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_.)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]^(n_.), x_Symbol]
:> Simp[(A*b - a*B)*Cos[e + f*x]*(a + b*Sin[e + f*x])^m*((c + d*Sin[e + f*x])^n/(a*f*(2*m + 1))), x] + Simp[(a*B*(m - n) + A*b*(m + n + 1))/(a*b*(2*m + 1)) Int[(a + b*Sin[e + f*x])^(m + 1)*(c + d*Sin[e + f*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, A, B, m, n}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && (LtQ[m, -2^(-1)] || (ILtQ[m + n, 0] && !SumSimplerQ[n, 1])) && NeQ[2*m + 1, 0]`

3452. $\text{Int}[(a + (b \sin(e) + f x))^m ((A + (B \sin(e) + f x))^n), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-B) \cos[e + f x] (a + b \sin[e + f x])^m (c + d \sin[e + f x])^n / (f(m + n + 1)), x] - \text{Simp}[(B c (m - n) - A d (m + n + 1)) / (d (m + n + 1)) \text{Int}[(a + b \sin[e + f x])^m (c + d \sin[e + f x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, m, n\}, x] \&\& \text{EqQ}[b c + a d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{!LtQ}[m, -2^{(-1)}] \&\& \text{NeQ}[m + n + 1, 0]$
3453. $\text{Int}[(a + (b \sin(e) + f x))^m ((A + (B \sin(e) + f x))^n), x_{\text{Symbol}}] \rightarrow \text{Simp}[(B c - A d) \cos[e + f x] (a + b \sin[e + f x])^m (c + d \sin[e + f x])^{n+1} / (f(n+1)(c^2 - d^2)), x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, m, n\}, x] \&\& \text{NeQ}[b c - a d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{EqQ}[m + n + 2, 0] \&\& \text{EqQ}[A(a d m + b c(n+1)) - B(a c m + b d(n+1)), 0]$
3454. $\text{Int}[(a + (b \sin(e) + f x))^m ((A + (B \sin(e) + f x))^n), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b^2)(B c - A d) \cos[e + f x] (a + b \sin[e + f x])^{m-1} (c + d \sin[e + f x])^{n+1} / (d f (n+1)(b c + a d)), x] - \text{Simp}[b / (d(n+1)(b c + a d)) \text{Int}[(a + b \sin[e + f x])^{m-1} (c + d \sin[e + f x])^{n+1} \text{Simp}[a A d (m - n - 2) - B(a c (m - 1) + b d(n+1)) - (A b d (m + n + 1) - B(b c m - a d(n+1))) \sin[e + f x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b c - a d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{GtQ}[m, 1/2] \&\& \text{LtQ}[n, -1] \&\& \text{IntegerQ}[2 m] \&\& (\text{IntegerQ}[2 n] \parallel \text{EqQ}[c, 0])$
3455. $\text{Int}[(a + (b \sin(e) + f x))^m ((A + (B \sin(e) + f x))^n), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b) B \cos[e + f x] (a + b \sin[e + f x])^{m-1} (c + d \sin[e + f x])^{n+1} / (d f (m + n + 1)), x] + \text{Simp}[1 / (d(m + n + 1)) \text{Int}[(a + b \sin[e + f x])^{m-1} (c + d \sin[e + f x])^n \text{Simp}[a A d (m + n + 1) + B(a c (m - 1) + b d(n+1)) + (A b d (m + n + 1) - B(b c m - a d(2 m + n))) \sin[e + f x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b c - a d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{GtQ}[m, 1/2] \&\& \text{!LtQ}[n, -1] \&\& \text{IntegerQ}[2 m] \&\& (\text{IntegerQ}[2 n] \parallel \text{EqQ}[c, 0])$

3456. $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((A_.) + (B_.)\sin[(e_.) + (f_.)x])^{(n_.)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(A*b - a*B)\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^m*((c + d*\text{Sin}[e + f*x])^n/(a*f*(2*m + 1))), x] - \text{Simp}[1/(a*b*(2*m + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{m+1}*(c + d*\text{Sin}[e + f*x])^{n-1}*\text{Simp}[A*(a*d*n - b*c*(m + 1)) - B*(a*c*m + b*d*n) - d*(a*B*(m - n) + A*b*(m + n + 1))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}] \&\& \text{GtQ}[n, 0] \&\& \text{IntegerQ}[2*m] \&\& (\text{IntegerQ}[2*n] \mid\mid \text{EqQ}[c, 0])$
3457. $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((A_.) + (B_.)\sin[(e_.) + (f_.)x])^{(n_.)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b*(A*b - a*B)\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^m*((c + d*\text{Sin}[e + f*x])^{n+1}/(a*f*(2*m + 1)*(b*c - a*d))), x] + \text{Simp}[1/(a*(2*m + 1)*(b*c - a*d)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{m+1}*(c + d*\text{Sin}[e + f*x])^n*\text{Simp}[B*(a*c*m + b*d*(n + 1)) + A*(b*c*(m + 1) - a*d*(2*m + n + 2)) + d*(A*b - a*B)*(m + n + 2)*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, n\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}] \&\& !\text{GtQ}[n, 0] \&\& \text{IntegerQ}[2*m] \&\& (\text{IntegerQ}[2*n] \mid\mid \text{EqQ}[c, 0])$
3458. $\text{Int}[\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]*(A_.) + (B_.)\sin[(e_.) + (f_.)x])^{(n_.)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2*b*B*\text{Cos}[e + f*x]*((c + d*\text{Sin}[e + f*x])^{n+1}/(d*f*(2*n + 3)*\text{Sqrt}[a + b*\text{Sin}[e + f*x]])), x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, n\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{EqQ}[A*b*d*(2*n + 3) - B*(b*c - 2*a*d*(n + 1)), 0]$
3459. $\text{Int}[\text{Sqrt}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]*(A_.) + (B_.)\sin[(e_.) + (f_.)x])^{(n_.)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b^2)*(B*c - A*d)*\text{Cos}[e + f*x]*((c + d*\text{Sin}[e + f*x])^{n+1}/(d*f*(n + 1)*(b*c + a*d)*\text{Sqrt}[a + b*\text{Sin}[e + f*x]])), x] + \text{Simp}[(A*b*d*(2*n + 3) - B*(b*c - 2*a*d*(n + 1)))/(2*d*(n + 1)*(b*c + a*d)) \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(c + d*\text{Sin}[e + f*x])^{n+1}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[n, -1]$

3460. $\text{Int}[\text{Sqrt}[(a_) + (b_)\sin[(e_) + (f_)(x_)]*(A_) + (B_)\sin[(e_) + (f_)(x_)]*((c_) + (d_)\sin[(e_) + (f_)(x_)]^{(n_)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2*b*B*\text{Cos}[e + f*x]*((c + d*\text{Sin}[e + f*x])^{(n + 1)})/(d*f*(2*n + 3)*\text{Sqrt}[a + b*\text{Sin}[e + f*x]])], x] + \text{Simp}[(A*b*d*(2*n + 3) - B*(b*c - 2*a*d*(n + 1)))/(b*d*(2*n + 3)) \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*(c + d*\text{Sin}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& !\text{LtQ}[n, -1]$
3461. $\text{Int}[((A_) + (B_)\sin[(e_) + (f_)(x_)])/(\text{Sqrt}[(a_) + (b_)\sin[(e_) + (f_)(x_)]*\text{Sqrt}[(c_) + (d_)\sin[(e_) + (f_)(x_)]]), x_{\text{Symbol}}] \rightarrow \text{Simp}[(A*b - a*B)/b \text{Int}[1/(\text{Sqrt}[a + b*\text{Sin}[e + f*x]]*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x], x] + \text{Simp}[B/b \text{Int}[\text{Sqrt}[a + b*\text{Sin}[e + f*x]]/\text{Sqrt}[c + d*\text{Sin}[e + f*x]], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3462. $\text{Int}[(a_) + (b_)\sin[(e_) + (f_)(x_)]^{(m_)}*((A_) + (B_)\sin[(e_) + (f_)(x_)]*((c_) + (d_)\sin[(e_) + (f_)(x_)]^{(n_)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-B)*\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^m*((c + d*\text{Sin}[e + f*x])^n/(f*(m + n + 1))), x] + \text{Simp}[1/(b*(m + n + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^m*(c + d*\text{Sin}[e + f*x])^{(n - 1)}*\text{Simp}[A*b*c*(m + n + 1) + B*(a*c*m + b*d*n) + (A*b*d*(m + n + 1) + B*(a*d*m + b*c*n))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{GtQ}[n, 0] \&\& (\text{IntegerQ}[n] || \text{EqQ}[m + 1/2, 0])$
3463. $\text{Int}[(a_) + (b_)\sin[(e_) + (f_)(x_)]^{(m_)}*((A_) + (B_)\sin[(e_) + (f_)(x_)]*((c_) + (d_)\sin[(e_) + (f_)(x_)]^{(n_)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(B*c - A*d)*\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^m*((c + d*\text{Sin}[e + f*x])^{(n + 1)})/(f*(n + 1)*(c^2 - d^2))], x] + \text{Simp}[1/(b*(n + 1)*(c^2 - d^2)) \text{Int}[(a + b*\text{Sin}[e + f*x])^m*(c + d*\text{Sin}[e + f*x])^{(n + 1)}*\text{Simp}[A*(a*d*m + b*c*(n + 1)) - B*(a*c*m + b*d*(n + 1)) + b*(B*c - A*d)*(m + n + 2)*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[n, -1] \&\& (\text{IntegerQ}[n] || \text{EqQ}[m + 1/2, 0])$

3464. $\text{Int}[\frac{(A + B)\sin(e + f x) + (C + D)\sin(e + f x)}{\sqrt{(a + b)\sin(e + f x) + (c + d)\sin(e + f x)}}], x_{\text{Symbol}}$
 $\rightarrow \text{Simp}[\frac{(A b - a B)}{(b c - a d)} \text{Int}[\frac{1}{\sqrt{a + b \sin[e + f x]}}, x], x] + \text{Simp}[\frac{(B c - A d)}{(b c - a d)} \text{Int}[\frac{\sqrt{a + b \sin[e + f x]}}{(c + d \sin[e + f x])}, x], x] /;$ FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]
3465. $\text{Int}[\frac{((a + b)\sin(e + f x))^m ((A + B)\sin(e + f x) + (C + D)\sin(e + f x))}{(c + d)\sin(e + f x)}, x_{\text{Symbol}}$
 $\rightarrow \text{Simp}[B/d \text{Int}[(a + b \sin[e + f x])^m, x], x] - \text{Simp}[(B c - A d)/d \text{Int}[(a + b \sin[e + f x])^m / (c + d \sin[e + f x]), x], x] /;$ FreeQ[{a, b, c, d, e, f, A, B, m}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && NeQ[m + 1/2, 0]
3466. $\text{Int}[\frac{((a + b)\sin(e + f x))^m ((A + B)\sin(e + f x) + (C + D)\sin(e + f x))^n}{(c + d)\sin(e + f x)}, x_{\text{Symbol}}$
 $\rightarrow \text{Simp}[\frac{(A b - a B)}{b} \text{Int}[(a + b \sin[e + f x])^m (c + d \sin[e + f x])^n, x], x] + \text{Simp}[B/b \text{Int}[(a + b \sin[e + f x])^{m+1} (c + d \sin[e + f x])^n, x], x] /;$ FreeQ[{a, b, c, d, e, f, A, B, m, n}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && NeQ[A*b + a*B, 0]
3467. $\text{Int}[\frac{((a + b)\sin(e + f x))^2 ((A + B)\sin(e + f x) + (C + D)\sin(e + f x))^n}{(c + d)\sin(e + f x)}, x_{\text{Symbol}}$
 $\rightarrow \text{Simp}[\frac{(B c - A d) (b c - a d)^2 \cos[e + f x] (c + d \sin[e + f x])^{n+1}}{(f d^2 (n + 1) (c^2 - d^2))}, x] - \text{Simp}[\frac{1}{(d^2 (n + 1) (c^2 - d^2))} \text{Int}[(c + d \sin[e + f x])^{n+1} \text{Simp}[d (n + 1) (B (b c - a d)^2 - A d (a^2 c + b^2 c - 2 a b d)) - ((B c - A d) (a^2 d^2 (n + 2) + b^2 (c^2 + d^2 (n + 1))) + 2 a b d (A c d (n + 2) - B (c^2 + d^2 (n + 1)))] \sin[e + f x] - b^2 B d (n + 1) (c^2 - d^2) \sin[e + f x]^2, x], x], x] /;$ FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && LtQ[n, -1]
3468. $\text{Int}[\frac{((a + b)\sin(e + f x))^m ((A + B)\sin(e + f x) + (C + D)\sin(e + f x))^n}{(c + d)\sin(e + f x)}, x_{\text{Symbol}}$
 $\rightarrow \text{Simp}[(- (b c - a d)) (B c - A d) \cos[e + f x] (a + b \sin[e + f x])^{m-1} (c + d \sin[e + f x])^{n+1} / (d f (n + 1) (c^2 - d^2)), x]$

- $x] + \text{Simp}[1/(d*(n + 1)*(c^2 - d^2)) \quad \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m - 2)}$
 $* (c + d*\text{Sin}[e + f*x])^{(n + 1)}*\text{Simp}[b*(b*c - a*d)*(B*c - A*d)*(m - 1) +$
 $a*d*(a*A*c + b*B*c - (A*b + a*B)*d)*(n + 1) + (b*(b*d*(B*c - A*d) + a$
 $*(A*c*d + B*(c^2 - 2*d^2)))*(n + 1) - a*(b*c - a*d)*(B*c - A*d)*(n + 2$
 $))*\text{Sin}[e + f*x] + b*(d*(A*b*c + a*B*c - a*A*d)*(m + n + 1) - b*B*(c^2*$
 $m + d^2*(n + 1)))*\text{Sin}[e + f*x]^2, x], x] /; \text{FreeQ}\{a, b, c, d, e,$
 $f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^$
 $2, 0] \&\& \text{GtQ}[m, 1] \&\& \text{LtQ}[n, -1]$
3469. $\text{Int}[(a_.) + (b_.)*\text{sin}[(e_.) + (f_.)*(x_.)]^{(m_.)}*((A_.) + (B_.)*\text{sin}[(e$
 $_.) + (f_.)*(x_.)]^{(n_.)}, x_Symbol] :> \text{Simp}[(-b)*B*\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^{(m - 1)}*((c + d*$
 $\text{Sin}[e + f*x])^{(n + 1)}/(d*f*(m + n + 1))), x] + \text{Simp}[1/(d*(m + n + 1))$
 $\text{Int}[(a + b*\text{Sin}[e + f*x])^{(m - 2)}*(c + d*\text{Sin}[e + f*x])^n*\text{Simp}[a^2*A*d$
 $*(m + n + 1) + b*B*(b*c*(m - 1) + a*d*(n + 1)) + (a*d*(2*A*b + a*B)*(m$
 $+ n + 1) - b*B*(a*c - b*d*(m + n)))*\text{Sin}[e + f*x] + b*(A*b*d*(m + n +$
 $1) - B*(b*c*m - a*d*(2*m + n)))*\text{Sin}[e + f*x]^2, x], x] /; \text{FreeQ}\{a$
 $, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0]$
 $] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{GtQ}[m, 1] \&\& !(\text{IGtQ}[n, 1] \&\& (!\text{IntegerQ}[m]$
 $|| (\text{EqQ}[a, 0] \&\& \text{NeQ}[c, 0])))$
3470. $\text{Int}[(((A_.) + (B_.)*\text{sin}[(e_.) + (f_.)*(x_.)])*\text{Sqrt}[(c_.) + (d_.)*\text{sin}[(e$
 $_.) + (f_.)*(x_.)]]) / ((b_.)*\text{sin}[(e_.) + (f_.)*(x_.)]^{(3/2)}, x_Symbol] :>$
 $\text{Simp}[B*(d/b^2) \quad \text{Int}[\text{Sqrt}[b*\text{Sin}[e + f*x]]/\text{Sqrt}[c + d*\text{Sin}[e + f*x]], x$
 $], x] + \text{Int}[(A*c + (B*c + A*d)*\text{Sin}[e + f*x]) / ((b*\text{Sin}[e + f*x])^{(3/2)}*\text{S}$
 $\text{qrt}[c + d*\text{Sin}[e + f*x]]), x] /; \text{FreeQ}\{b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}$
 $[c^2 - d^2, 0]$
3471. $\text{Int}[(((A_.) + (B_.)*\text{sin}[(e_.) + (f_.)*(x_.)])*\text{Sqrt}[(c_.) + (d_.)*\text{sin}[(e$
 $_.) + (f_.)*(x_.)]]) / ((a_.) + (b_.)*\text{sin}[(e_.) + (f_.)*(x_.)]^{(3/2)}, x_Sy$
 $mbol] :> \text{Simp}[B/b \quad \text{Int}[\text{Sqrt}[c + d*\text{Sin}[e + f*x]]/\text{Sqrt}[a + b*\text{Sin}[e + f*$
 $x]], x], x] + \text{Simp}[(A*b - a*B)/b \quad \text{Int}[\text{Sqrt}[c + d*\text{Sin}[e + f*x]]/(a + b$
 $*\text{Sin}[e + f*x])^{(3/2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\&$
 $\text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3472. $\text{Int}[(((A_.) + (B_.)*\text{sin}[(e_.) + (f_.)*(x_.)]) / (\text{Sqrt}[(d_.)*\text{sin}[(e_.) + (f$
 $_.) + (f_.)*(x_.)]]) * ((a_.) + (b_.)*\text{sin}[(e_.) + (f_.)*(x_.)]^{(3/2)}), x_Symbol] :>$

- $$\text{Simp}[2*(A*b - a*B)*(Cos[e + f*x]/(f*(a^2 - b^2)*Sqrt[a + b*Sin[e + f*x]]*Sqrt[d*Sin[e + f*x]])), x] + \text{Simp}[d/(a^2 - b^2) \text{Int}[(A*b - a*B + (a*A - b*B)*Sin[e + f*x])/(Sqrt[a + b*Sin[e + f*x]]*(d*Sin[e + f*x])^(3/2)), x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$$
3473.
$$\text{Int}[((A_) + (B_)*\sin[(e_) + (f_)*(x_)])/(((b_)*\sin[(e_) + (f_)*(x_)])^(3/2)*Sqrt[(c_) + (d_)*\sin[(e_) + (f_)*(x_)]]), x_Symbol] \rightarrow \text{Simp}[-2*A*(c - d)*(Tan[e + f*x]/(f*b*c^2))*Rt[(c + d)/b, 2]*Sqrt[c*((1 + Csc[e + f*x])/(c - d))]*Sqrt[c*((1 - Csc[e + f*x])/(c + d))]*\text{EllipticE}[\text{ArcSin}[Sqrt[c + d*Sin[e + f*x]]/Sqrt[b*Sin[e + f*x]]/Rt[(c + d)/b, 2]], -(c + d)/(c - d)], x] /; \text{FreeQ}[\{b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{EqQ}[A, B] \&\& \text{PosQ}[(c + d)/b]$$
3474.
$$\text{Int}[((A_) + (B_)*\sin[(e_) + (f_)*(x_)])/(((b_)*\sin[(e_) + (f_)*(x_)])^(3/2)*Sqrt[(c_) + (d_)*\sin[(e_) + (f_)*(x_)]]), x_Symbol] \rightarrow \text{Simp}[-Sqrt[(-b)*Sin[e + f*x]]/Sqrt[b*Sin[e + f*x]] \text{Int}[(A + B*Sin[e + f*x])/((-b)*Sin[e + f*x])^(3/2)*Sqrt[c + d*Sin[e + f*x]]], x], x] /; \text{FreeQ}[\{b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{EqQ}[A, B] \&\& \text{NegQ}[(c + d)/b]$$
3475.
$$\text{Int}[((A_) + (B_)*\sin[(e_) + (f_)*(x_)])/(((a_) + (b_)*\sin[(e_) + (f_)*(x_)])^(3/2)*Sqrt[(c_) + (d_)*\sin[(e_) + (f_)*(x_)]]), x_Symbol] \rightarrow \text{Simp}[-2*A*(c - d)*((a + b*Sin[e + f*x])/(f*(b*c - a*d)^2)*Rt[(a + b)/(c + d), 2]*Cos[e + f*x])*Sqrt[(b*c - a*d)*((1 + Sin[e + f*x])/(c - d)*(a + b*Sin[e + f*x]))]*Sqrt[(-b*c - a*d)*((1 - Sin[e + f*x])/(c + d)*(a + b*Sin[e + f*x]))]*\text{EllipticE}[\text{ArcSin}[Rt[(a + b)/(c + d), 2]*(Sqrt[c + d*Sin[e + f*x]]/Sqrt[a + b*Sin[e + f*x]])], (a - b)*((c + d)/((a + b)*(c - d)))]], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{EqQ}[A, B] \&\& \text{PosQ}[(a + b)/(c + d)]$$
3476.
$$\text{Int}[((A_) + (B_)*\sin[(e_) + (f_)*(x_)])/(((a_) + (b_)*\sin[(e_) + (f_)*(x_)])^(3/2)*Sqrt[(c_) + (d_)*\sin[(e_) + (f_)*(x_)]]), x_Symbol] \rightarrow \text{Simp}[Sqrt[-c - d*Sin[e + f*x]]/Sqrt[c + d*Sin[e + f*x]] \text{Int}[(A + B*Sin[e + f*x])/((a + b*Sin[e + f*x])^(3/2)*Sqrt[-c - d*Sin[e + f*x]])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{EqQ}[A, B] \&\& \text{NegQ}[(a +$$

b)/(c + d)]

3477. $\text{Int}[\frac{(A_.) + (B_.)\sin[(e_.) + (f_.)x]}{((a_.) + (b_.)\sin[(e_.) + (f_.)x])^{3/2}\sqrt{(c_.) + (d_.)\sin[(e_.) + (f_.)x]}}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(A - B)/(a - b) \text{ Int}[1/(\sqrt{a + b\sin[e + fx]}\sqrt{c + d\sin[e + fx]}), x], x] - \text{Simp}[(A*b - a*B)/(a - b) \text{ Int}[(1 + \sin[e + fx])/((a + b\sin[e + fx])^{3/2}\sqrt{c + d\sin[e + fx]}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{NeQ}[A, B]$
3478. $\text{Int}[\frac{(a_.) + (b_.)\sin[(e_.) + (f_.)x]^m * ((A_.) + (B_.)\sin[(e_.) + (f_.)x]) * ((c_.) + (d_.)\sin[(e_.) + (f_.)x])^n}{(c + d\sin[e + fx])^n / (f*(m + 1)*(a^2 - b^2))}, x] + \text{Simp}[1/((m + 1)*(a^2 - b^2)) \text{ Int}[(a + b\sin[e + fx])^{m + 1} * (c + d\sin[e + fx])^{n - 1} * \text{Simp}[c*(a*A - b*B)*(m + 1) + d*n*(A*b - a*B) + (d*(a*A - b*B)*(m + 1) - c*(A*b - a*B)*(m + 2))*\sin[e + fx] - d*(A*b - a*B)*(m + n + 2)*\sin[e + fx]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0]$
3479. $\text{Int}[\frac{(a_.) + (b_.)\sin[(e_.) + (f_.)x]^m * ((A_.) + (B_.)\sin[(e_.) + (f_.)x]) * ((c_.) + (d_.)\sin[(e_.) + (f_.)x])^n}{(-A*b^2 - a*b*B)*\cos[e + fx] * (a + b\sin[e + fx])^{m + 1} * ((c + d\sin[e + fx])^{1 + n} / (f*(m + 1)*(b*c - a*d)*(a^2 - b^2))}, x] + \text{Simp}[1/((m + 1)*(b*c - a*d)*(a^2 - b^2)) \text{ Int}[(a + b\sin[e + fx])^{m + 1} * (c + d\sin[e + fx])^n * \text{Simp}[(a*A - b*B)*(b*c - a*d)*(m + 1) + b*d*(A*b - a*B)*(m + n + 2) + (A*b - a*B)*(a*d*(m + 1) - b*c*(m + 2))*\sin[e + fx] - b*d*(A*b - a*B)*(m + n + 3)*\sin[e + fx]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{RationalQ}[m] \&\& m < -1 \&\& ((\text{EqQ}[a, 0] \&\& \text{IntegerQ}[m] \&\& !\text{IntegerQ}[n]) || !(\text{IntegerQ}[2*n] \&\& \text{LtQ}[n, -1] \&\& ((\text{IntegerQ}[n] \&\& !\text{IntegerQ}[m]) || \text{EqQ}[a, 0])))$
3480. $\text{Int}[\frac{(A_.) + (B_.)\sin[(e_.) + (f_.)x]}{((a_.) + (b_.)\sin[(e_.) + (f_.)x]) * ((c_.) + (d_.)\sin[(e_.) + (f_.)x])}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(A*b - a*B)/(b*c - a*d) \text{ Int}[1/(a + b\sin[e + fx]), x], x] + \text{Si}$

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mp[(B*c - A*d)/(b*c - a*d) Int[1/(c + d*Sin[e + f*x]), x], x] /; FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]

3481. Int[(((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)]))/((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]), x_Symbol]
:> Simp[B/d Int[(a + b*Sin[e + f*x])^m, x], x] - Simp[(B*c - A*d)/d Int[(a + b*Sin[e + f*x])^m/(c + d*Sin[e + f*x]), x], x] /; FreeQ[{a, b, c, d, e, f, A, B, m}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]

3482. Int[Sqrt[(a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]]*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)])^(n_), x_Symbol]
:> Simp[-2*B*Cos[e + f*x]*Sqrt[a + b*Sin[e + f*x]]*((c + d*Sin[e + f*x])^n/(f*(2*n + 3))), x] + Simp[1/(2*n + 3) Int[((c + d*Sin[e + f*x])^(n - 1)/Sqrt[a + b*Sin[e + f*x]])*Simp[a*A*c*(2*n + 3) + B*(b*c + 2*a*d*n) + (B*(a*c + b*d)*(2*n + 1) + A*(b*c + a*d)*(2*n + 3))*Sin[e + f*x] + (A*b*d*(2*n + 3) + B*(a*d + 2*b*c*n))*Sin[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && EqQ[n^2, 1/4]

3483. Int[((A_) + (B_.)*sin[(e_.) + (f_.)*(x_)])/(Sqrt[sin[(e_.) + (f_.)*(x_)]]*Sqrt[(a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]]), x_Symbol]
:> Simp[4*(A/(f*Sqrt[a + b]))*EllipticPi[-1, -ArcSin[Cos[e + f*x]/(1 + Sin[e + f*x])], -(a - b)/(a + b)], x] /; FreeQ[{a, b, e, f, A, B}, x] && GtQ[b, 0] && GtQ[b^2 - a^2, 0] && EqQ[A, B]

3484. Int[((A_) + (B_.)*sin[(e_.) + (f_.)*(x_)])/(Sqrt[(d_)*sin[(e_.) + (f_.)*(x_)]]*Sqrt[(a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]]), x_Symbol]
:> Simp[Sqrt[Sin[e + f*x]]/Sqrt[d*Sin[e + f*x]] Int[(A + B*Sin[e + f*x])/(Sqrt[Sin[e + f*x]]*Sqrt[a + b*Sin[e + f*x]]), x], x] /; FreeQ[{a, b, e, f, d, A, B}, x] && GtQ[b, 0] && GtQ[b^2 - a^2, 0] && EqQ[A, B]

3485. Int[((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)])/(Sqrt[(a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]]*Sqrt[(c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)]]), x_Symbol]
:> Simp[B/d Int[Sqrt[c + d*Sin[e + f*x]]/Sqrt[a + b*Sin[e + f*x]], x], x] - Simp[(B*c - A*d)/d Int[1/(Sqrt[a + b*Sin[e + f*x]]*Sqrt[

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- $c + d \sin[e + f x]$ ),  $x$ ],  $x$ ] /; FreeQ[{a, b, c, d, e, f, A, B}, x] &&  
 NeQ[b\*c - a\*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]
3486. Int[((a\_.) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(m\_.)\*((A\_.) + (B\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])\*((c\_.) + (d\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(n\_.), x\_Symbol] :> Unintegrable[(a + b\*SIN[e + f\*x])^m\*(A + B\*SIN[e + f\*x])\*(c + d\*SIN[e + f\*x])^n, x] /; FreeQ[{a, b, c, d, e, f, A, B, m, n}, x] && NeQ[b\*c - a\*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]
3487. Int[((a\_) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(m\_.)\*((A\_.) + (B\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(p\_.)\*((c\_) + (d\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(n\_.), x\_Symbol] :> Simp[Sqrt[a + b\*SIN[e + f\*x]]\*(Sqrt[c + d\*SIN[e + f\*x]]/(f\*COS[e + f\*x])) Subst[Int[(a + b\*x)^(m - 1/2)\*(c + d\*x)^(n - 1/2)\*(A + B\*x)^p, x], x, SIN[e + f\*x]], x] /; FreeQ[{a, b, c, d, e, f, A, B, m, n, p}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 - b^2, 0]
3488. Int[((A\_.) + cos[(e\_.) + (f\_.)\*(x\_)])\*(B\_.))^(p\_.)\*((cos[(e\_.) + (f\_.)\*(x\_)])\*(b\_.) + (a\_.))^(m\_.)\*((cos[(e\_.) + (f\_.)\*(x\_)])\*(d\_.) + (c\_.))^(n\_.), x\_Symbol] :> Simp[(-Sqrt[a + b\*COS[e + f\*x]]\*(Sqrt[c + d\*COS[e + f\*x]]/(f\*SIN[e + f\*x])) Subst[Int[(a + b\*x)^(m - 1/2)\*(c + d\*x)^(n - 1/2)\*(A + B\*x)^p, x], x, COS[e + f\*x]], x] /; FreeQ[{a, b, c, d, e, f, A, B, m, n, p}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 - b^2, 0]
3489. Int[((b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(m\_.)\*((B\_.)\*sin[(e\_.) + (f\_.)\*(x\_.)] + (C\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^2), x\_Symbol] :> Simp[1/b Int[(b\*SIN[e + f\*x])^(m + 1)\*(B + C\*SIN[e + f\*x]), x], x] /; FreeQ[{b, e, f, B, C, m}, x]
3490. Int[((b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(m\_.)\*((A\_.) + (C\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^2), x\_Symbol] :> Simp[A\*COS[e + f\*x]\*((b\*SIN[e + f\*x])^(m + 1)/(b\*f\*(m + 1))), x] /; FreeQ[{b, e, f, A, C, m}, x] && EqQ[A\*(m + 2) + C\*(m + 1), 0]
3491. Int[((b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^(m\_.)\*((A\_.) + (C\_.)\*sin[(e\_.) + (f\_.)\*(x\_)])^2), x\_Symbol] :> Simp[A\*COS[e + f\*x]\*((b\*SIN[e + f\*x])^(m + 1)/(b\*f\*(m + 1))), x] + Simp[(A\*(m + 2) + C\*(m + 1))/(b^2\*(m + 1)) Int[(b\*SIN[e + f\*x])^(m + 2), x], x] /; FreeQ[{b, e, f, A, C}, x] && LtQ

[m, -1]

3492.  $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((A_.) + (C_.)*\sin[(e_.) + (f_.)(x_.)]^2)}, x\_Symbol] \rightarrow \text{Simp}[-f^{(-1)} \text{Subst}[\text{Int}[(1 - x^2)^{((m - 1)/2)*(A + C - C*x^2)}, x], x, \text{Cos}[e + f*x]], x] /; \text{FreeQ}\{e, f, A, C\}, x] \&\& \text{IGtQ}[m + 1/2, 0]$
3493.  $\text{Int}[(b_.)*\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((A_.) + (C_.)*\sin[(e_.) + (f_.)(x_.)]^2)}, x\_Symbol] \rightarrow \text{Simp}[(-C)*\text{Cos}[e + f*x]*((b*\text{Sin}[e + f*x])^{(m + 1)/(b*f*(m + 2))}), x] + \text{Simp}[(A*(m + 2) + C*(m + 1))/(m + 2) \text{Int}[(b*\text{Sin}[e + f*x])^m, x], x] /; \text{FreeQ}\{b, e, f, A, C, m\}, x] \&\& \text{!LtQ}[m, -1]$
3494.  $\text{Int}[(a_.) + (b_.)*\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((A_.) + (B_.)*\sin[(e_.) + (f_.)(x_.)] + (C_.)*\sin[(e_.) + (f_.)(x_.)]^2)}, x\_Symbol] \rightarrow \text{Simp}[1/b^2 \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)*\text{Simp}[b*B - a*C + b*C*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C, m\}, x] \&\& \text{EqQ}[A*b^2 - a*b*B + a^2*C, 0]$
3495.  $\text{Int}[(a_.) + (b_.)*\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((A_.) + (C_.)*\sin[(e_.) + (f_.)(x_.)]^2)}, x\_Symbol] \rightarrow \text{Simp}[C/b^2 \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)*\text{Simp}[-a + b*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, C, m\}, x] \&\& \text{EqQ}[A*b^2 + a^2*C, 0]$
3496.  $\text{Int}[(a_.) + (b_.)*\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((A_.) + (B_.)*\sin[(e_.) + (f_.)(x_.)] + (C_.)*\sin[(e_.) + (f_.)(x_.)]^2)}, x\_Symbol] \rightarrow \text{Simp}[(A - C) \text{Int}[(a + b*\text{Sin}[e + f*x])^m*(1 + \text{Sin}[e + f*x]), x], x] + \text{Simp}[C \text{Int}[(a + b*\text{Sin}[e + f*x])^m*(1 + \text{Sin}[e + f*x])^2, x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C, m\}, x] \&\& \text{EqQ}[A - B + C, 0] \&\& \text{!IntegerQ}[2*m]$
3497.  $\text{Int}[(a_.) + (b_.)*\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((A_.) + (C_.)*\sin[(e_.) + (f_.)(x_.)]^2)}, x\_Symbol] \rightarrow \text{Simp}[(A - C) \text{Int}[(a + b*\text{Sin}[e + f*x])^m*(1 + \text{Sin}[e + f*x]), x], x] + \text{Simp}[C \text{Int}[(a + b*\text{Sin}[e + f*x])^m*(1 + \text{Sin}[e + f*x])^2, x], x] /; \text{FreeQ}\{a, b, e, f, A, C, m\}, x] \&\& \text{EqQ}[A + C, 0] \&\& \text{!IntegerQ}[2*m]$

3498.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((A_.) + (B_.)\sin[(e_.) + (f_.)x] + (C_.)\sin[(e_.) + (f_.)x]^2), x\_Symbol] \rightarrow \text{Simp}[(A*b - a*B + b*C)\text{Cos}[e + f*x]*((a + b*\text{Sin}[e + f*x])^m/(a*f*(2*m + 1))), x] + \text{Simp}[1/(a^2*(2*m + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*\text{Simp}[a*A*(m + 1) + m*(b*B - a*C) + b*C*(2*m + 1)*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{EqQ}[a^2 - b^2, 0]$
3499.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((A_.) + (C_.)\sin[(e_.) + (f_.)x]^2), x\_Symbol] \rightarrow \text{Simp}[b*(A + C)*\text{Cos}[e + f*x]*((a + b*\text{Sin}[e + f*x])^m/(a*f*(2*m + 1))), x] + \text{Simp}[1/(a^2*(2*m + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*\text{Simp}[a*A*(m + 1) - a*C*m + b*C*(2*m + 1)*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, C\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{EqQ}[a^2 - b^2, 0]$
3500.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((A_.) + (B_.)\sin[(e_.) + (f_.)x] + (C_.)\sin[(e_.) + (f_.)x]^2), x\_Symbol] \rightarrow \text{Simp}[(-A*b^2 - a*b*B + a^2*C)*\text{Cos}[e + f*x]*((a + b*\text{Sin}[e + f*x])^{(m + 1)})/(b*f*(m + 1)*(a^2 - b^2)), x] + \text{Simp}[1/(b*(m + 1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*\text{Simp}[b*(a*A - b*B + a*C)*(m + 1) - (A*b^2 - a*b*B + a^2*C + b*(A*b - a*B + b*C)*(m + 1))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[a^2 - b^2, 0]$
3501.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((A_.) + (C_.)\sin[(e_.) + (f_.)x]^2), x\_Symbol] \rightarrow \text{Simp}[(-A*b^2 + a^2*C)*\text{Cos}[e + f*x]*((a + b*\text{Sin}[e + f*x])^{(m + 1)})/(b*f*(m + 1)*(a^2 - b^2)), x] + \text{Simp}[1/(b*(m + 1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*\text{Simp}[a*b*(A + C)*(m + 1) - (A*b^2 + a^2*C + b^2*(A + C)*(m + 1))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, C\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[a^2 - b^2, 0]$
3502.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((A_.) + (B_.)\sin[(e_.) + (f_.)x] + (C_.)\sin[(e_.) + (f_.)x]^2), x\_Symbol] \rightarrow \text{Simp}[(-C)*\text{Cos}[e + f*x]*((a + b*\text{Sin}[e + f*x])^{(m + 1)})/(b*f*(m + 2)), x] + \text{Simp}[1/(b*(m + 2)) \text{Int}[(a + b*\text{Sin}[e + f*x])^m*\text{Simp}[A*b*(m + 2) + b*C*(m + 1) + (b*B*(m + 2) - a*C)*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C, m\}, x] \&\& !\text{LtQ}[m, -1]$

3503.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((A_.) + (C_.)\sin[(e_.) + (f_.)x])^2, x\_Symbol] \rightarrow \text{Simp}[(-C)\cos[e + fx]((a + b\sin[e + fx])^{(m + 1)} / (b f (m + 2))), x] + \text{Simp}[1 / (b(m + 2)) \text{Int}[(a + b\sin[e + fx])^m \text{Simp}[A b (m + 2) + b C (m + 1) - a C \sin[e + fx], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, C, m\}, x] \&\& \text{!LtQ}[m, -1]$
3504.  $\text{Int}[(b_.)\sin[(e_.) + (f_.)x]]^{(p_.)}((A_.) + (B_.)\sin[(e_.) + (f_.)x] + (C_.)\sin[(e_.) + (f_.)x])^2, x\_Symbol] \rightarrow \text{Simp}[(b\sin[e + fx]^p)^m / (b\sin[e + fx])^{(m p)} \text{Int}[(b\sin[e + fx])^{(m p)} (A + B\sin[e + fx] + C\sin[e + fx]^2), x], x] /; \text{FreeQ}\{b, e, f, A, B, C, m, p\}, x] \&\& \text{!IntegerQ}[m]$
3505.  $\text{Int}[(\cos[(e_.) + (f_.)x])^{(p_.)} (b_.)^{(m_.)} ((A_.) + \cos[(e_.) + (f_.)x] (B_.) + \cos[(e_.) + (f_.)x]^2 (C_)), x\_Symbol] \rightarrow \text{Simp}[(b\cos[e + fx]^p)^m / (b\cos[e + fx])^{(m p)} \text{Int}[(b\cos[e + fx])^{(m p)} (A + B\cos[e + fx] + C\cos[e + fx]^2), x], x] /; \text{FreeQ}\{b, e, f, A, B, C, m, p\}, x] \&\& \text{!IntegerQ}[m]$
3506.  $\text{Int}[(b_.)\sin[(e_.) + (f_.)x]]^{(p_.)}((A_.) + (C_.)\sin[(e_.) + (f_.)x])^2, x\_Symbol] \rightarrow \text{Simp}[(b\sin[e + fx]^p)^m / (b\sin[e + fx])^{(m p)} \text{Int}[(b\sin[e + fx])^{(m p)} (A + C\sin[e + fx]^2), x], x] /; \text{FreeQ}\{b, e, f, A, C, m, p\}, x] \&\& \text{!IntegerQ}[m]$
3507.  $\text{Int}[(\cos[(e_.) + (f_.)x])^{(p_.)} (b_.)^{(m_.)} ((A_.) + \cos[(e_.) + (f_.)x]^2 (C_)), x\_Symbol] \rightarrow \text{Simp}[(b\cos[e + fx]^p)^m / (b\cos[e + fx])^{(m p)} \text{Int}[(b\cos[e + fx])^{(m p)} (A + C\cos[e + fx]^2), x], x] /; \text{FreeQ}\{b, e, f, A, C, m, p\}, x] \&\& \text{!IntegerQ}[m]$
3508.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]]^{(m_.)}((c_.) + (d_.)\sin[(e_.) + (f_.)x])^2, x\_Symbol] \rightarrow \text{Simp}[1/b^2 \text{Int}[(a + b\sin[e + fx])^{(m + 1)} (c + d\sin[e + fx])^n (bB - aC + bC\sin[e + fx]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, n\}, x] \&\& \text{NeQ}[b^2 c - a d, 0] \&\& \text{EqQ}[A b^2 - a b B + a^2 C, 0]$

3509.  $\text{Int}[\left((a_{.}) + (b_{.})\sin[(e_{.}) + (f_{.})(x_{.})]\right)^{(m_{.})}\left((c_{.}) + (d_{.})\sin[(e_{.}) + (f_{.})(x_{.})]\right)^{(n_{.})}\left((A_{.}) + (C_{.})\sin[(e_{.}) + (f_{.})(x_{.})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[-C/b^2 \text{ Int}[(a + b\sin[e + f*x])^{(m+1)}(c + d\sin[e + f*x])^{(n)}(a - b\sin[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[A*b^2 + a^2*C, 0]$
3510.  $\text{Int}[\left((a_{.}) + (b_{.})\sin[(e_{.}) + (f_{.})(x_{.})]\right)^{(m_{.})}\left((c_{.}) + (d_{.})\sin[(e_{.}) + (f_{.})(x_{.})]\right)\left((A_{.}) + (B_{.})\sin[(e_{.}) + (f_{.})(x_{.})] + (C_{.})\sin[(e_{.}) + (f_{.})(x_{.})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b*c - a*d)*(A*b^2 - a*b*B + a^2*C)*\text{Cos}[e + f*x]*\left((a + b\sin[e + f*x])^{(m+1)} / (b^2*f*(m+1)*(a^2 - b^2))\right), x] - \text{Simp}[1/(b^2*(m+1)*(a^2 - b^2)) \text{ Int}[(a + b\sin[e + f*x])^{(m+1)}*\text{Simp}[b*(m+1)*((b*B - a*C)*(b*c - a*d) - A*b*(a*c - b*d)) + (b*B*(a^2*d + b^2*d*(m+1) - a*b*c*(m+2)) + (b*c - a*d)*(A*b^2*(m+2) + C*(a^2 + b^2*(m+1)))]*\text{Sin}[e + f*x] - b*C*d*(m+1)*(a^2 - b^2)*\text{Sin}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
3511.  $\text{Int}[\left((a_{.}) + (b_{.})\sin[(e_{.}) + (f_{.})(x_{.})]\right)^{(m_{.})}\left((c_{.}) + (d_{.})\sin[(e_{.}) + (f_{.})(x_{.})]\right)\left((A_{.}) + (C_{.})\sin[(e_{.}) + (f_{.})(x_{.})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b*c - a*d)*(A*b^2 + a^2*C)*\text{Cos}[e + f*x]*\left((a + b\sin[e + f*x])^{(m+1)} / (b^2*f*(m+1)*(a^2 - b^2))\right), x] + \text{Simp}[1/(b^2*(m+1)*(a^2 - b^2)) \text{ Int}[(a + b\sin[e + f*x])^{(m+1)}*\text{Simp}[b*(m+1)*(a*C*(b*c - a*d) + A*b*(a*c - b*d)) - ((b*c - a*d)*(A*b^2*(m+2) + C*(a^2 + b^2*(m+1)))]*\text{Sin}[e + f*x] + b*C*d*(m+1)*(a^2 - b^2)*\text{Sin}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
3512.  $\text{Int}[\left((a_{.}) + (b_{.})\sin[(e_{.}) + (f_{.})(x_{.})]\right)^{(m_{.})}\left((c_{.}) + (d_{.})\sin[(e_{.}) + (f_{.})(x_{.})]\right)\left((A_{.}) + (B_{.})\sin[(e_{.}) + (f_{.})(x_{.})] + (C_{.})\sin[(e_{.}) + (f_{.})(x_{.})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-C)*d*\text{Cos}[e + f*x]*\text{Sin}[e + f*x]*\left((a + b\sin[e + f*x])^{(m+1)} / (b*f*(m+3))\right), x] + \text{Simp}[1/(b*(m+3)) \text{ Int}[(a + b\sin[e + f*x])^m*\text{Simp}[a*C*d + A*b*c*(m+3) + b*(B*c*(m+3) + d*(C*(m+2) + A*(m+3)))]*\text{Sin}[e + f*x] - (2*a*C*d - b*(c*C + B*d)*(m+3))*\text{Sin}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{!LtQ}[m, -1]$

3513.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(A_{\cdot}) + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-C)*d*\text{Cos}[e + f*x]*\text{Sin}[e + f*x]*((a + b*\text{Sin}[e + f*x])^{(m + 1)/(b*f*(m + 3))}), x] + \text{Simp}[1/(b*(m + 3)) \text{Int}[(a + b*\text{Sin}[e + f*x])^m*\text{Simp}[a*C*d + A*b*c*(m + 3) + b*d*(C*(m + 2) + A*(m + 3))*\text{Sin}[e + f*x] - (2*a*C*d - b*c*C*(m + 3))*\text{Sin}[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, C, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -1]$
3514.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}\left((A_{\cdot}) + (B_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(a*A - b*B + a*C)*\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^m*((c + d*\text{Sin}[e + f*x])^{(n + 1)/(2*b*c*f*(2*m + 1))}), x] - \text{Simp}[1/(2*b*c*d*(2*m + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*(c + d*\text{Sin}[e + f*x])^n*\text{Simp}[A*(c^2*(m + 1) + d^2*(2*m + n + 2)) - B*c*d*(m - n - 1) - C*(c^2*m - d^2*(n + 1)) + d*((A*c + B*d)*(m + n + 2) - c*C*(3*m - n))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, m, n\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& (\text{LtQ}[m, -2^{(-1)}] || (\text{EqQ}[m + n + 2, 0] \&\& \text{NeQ}[2*m + 1, 0]))$
3515.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}\left((A_{\cdot}) + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(a*A + a*C)*\text{Cos}[e + f*x]*(a + b*\text{Sin}[e + f*x])^m*((c + d*\text{Sin}[e + f*x])^{(n + 1)/(2*b*c*f*(2*m + 1))}), x] - \text{Simp}[1/(2*b*c*d*(2*m + 1)) \text{Int}[(a + b*\text{Sin}[e + f*x])^{(m + 1)}*(c + d*\text{Sin}[e + f*x])^n*\text{Simp}[A*(c^2*(m + 1) + d^2*(2*m + n + 2)) - C*(c^2*m - d^2*(n + 1)) + d*(A*c*(m + n + 2) - c*C*(3*m - n))*\text{Sin}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, C, m, n\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& (\text{LtQ}[m, -2^{(-1)}] || (\text{EqQ}[m + n + 2, 0] \&\& \text{NeQ}[2*m + 1, 0]))$
3516.  $\text{Int}[\left(\left(\left(a_{\cdot}\right) + \left(b_{\cdot}\right)\sin\left[\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)\right]\right)^{\left(m_{\cdot}\right)}\left(\left(A_{\cdot}\right) + \left(B_{\cdot}\right)\sin\left[\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)\right] + \left(C_{\cdot}\right)\sin^2\left[\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)\right]\right)/\text{Sqrt}\left[\left(c_{\cdot}\right) + \left(d_{\cdot}\right)\sin\left[\left(e_{\cdot}\right) + \left(f_{\cdot}\right)\left(x_{\cdot}\right)\right]\right], x_{\text{Symbol}}] \rightarrow \text{Simp}[-2*C*\text{Cos}[e + f*x]*((a + b*\text{Sin}[e + f*x])^{(m + 1)/(b*f*(2*m + 3)}*\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x] + \text{Int}[(a + b*\text{Sin}[e + f*x])^m*(\text{Simp}[A + C + B*\text{Sin}[e + f*x], x]/\text{Sqrt}[c + d*\text{Sin}[e + f*x]]), x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, m\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}]$

3517.  $\text{Int}[\frac{((a_.) + (b_.)\sin[e_.] + (f_.)x_.)^m((A_.) + (C_.)\sin[e_.] + (f_.)x_.)^2)}{\sqrt{(c_.) + (d_.)\sin[e_.] + (f_.)x_.)}}, x\_Symbol] \rightarrow \text{Simp}[-2C\cos[e + fx]((a + b\sin[e + fx])^{m+1}/(b^2m + 3)\sqrt{c + d\sin[e + fx]])], x] + \text{Simp}[(A + C) \text{Int}[(a + b\sin[e + fx])^m/\sqrt{c + d\sin[e + fx]}], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, C, m\}, x] \&\& \text{EqQ}[b^2c + a^2d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}]$
3518.  $\text{Int}[\frac{((a_.) + (b_.)\sin[e_.] + (f_.)x_.)^m((c_.) + (d_.)\sin[e_.] + (f_.)x_.)^n((A_.) + (B_.)\sin[e_.] + (f_.)x_.) + (C_.)\sin[e_.] + (f_.)x_.)^2)}{x\_Symbol}] \rightarrow \text{Simp}[(-C)\cos[e + fx](a + b\sin[e + fx])^m((c + d\sin[e + fx])^{n+1}/(d^2f(m+n+2))), x] + \text{Simp}[1/(b^2d(m+n+2)) \text{Int}[(a + b\sin[e + fx])^m(c + d\sin[e + fx])^n \text{Simp}[A^2b^2d(m+n+2) + C(a^2cm + b^2d(n+1)) + (b^2B^2d(m+n+2) - b^2c^2C(2m+1))\sin[e + fx]], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, m, n\}, x] \&\& \text{EqQ}[b^2c + a^2d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}] \&\& \text{NeQ}[m + n + 2, 0]$
3519.  $\text{Int}[\frac{((a_.) + (b_.)\sin[e_.] + (f_.)x_.)^m((c_.) + (d_.)\sin[e_.] + (f_.)x_.)^n((A_.) + (C_.)\sin[e_.] + (f_.)x_.)^2)}{x\_Symbol}] \rightarrow \text{Simp}[(-C)\cos[e + fx](a + b\sin[e + fx])^m((c + d\sin[e + fx])^{n+1}/(d^2f(m+n+2))), x] + \text{Simp}[1/(b^2d(m+n+2)) \text{Int}[(a + b\sin[e + fx])^m(c + d\sin[e + fx])^n \text{Simp}[A^2b^2d(m+n+2) + C(a^2cm + b^2d(n+1)) - b^2c^2C(2m+1))\sin[e + fx]], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, C, m, n\}, x] \&\& \text{EqQ}[b^2c + a^2d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}] \&\& \text{NeQ}[m + n + 2, 0]$
3520.  $\text{Int}[\frac{((a_.) + (b_.)\sin[e_.] + (f_.)x_.)^m((c_.) + (d_.)\sin[e_.] + (f_.)x_.)^n((A_.) + (B_.)\sin[e_.] + (f_.)x_.) + (C_.)\sin[e_.] + (f_.)x_.)^2)}{x\_Symbol}] \rightarrow \text{Simp}[(aA - bB + aC)\cos[e + fx](a + b\sin[e + fx])^m((c + d\sin[e + fx])^{n+1}/(f(b^2c - a^2d)(2m+1))), x] + \text{Simp}[1/(b(b^2c - a^2d)(2m+1)) \text{Int}[(a + b\sin[e + fx])^{m+1}(c + d\sin[e + fx])^n \text{Simp}[A(a^2c(m+1) - b^2d(2m+n+2)) + B(b^2cm + a^2d(n+1)) - C(a^2cm + b^2d(n+1)) + (d(aA - bB)(m+n+2) + C(b^2c(2m+1) - a^2d(m-n-1)))]\sin[e + fx], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, n\}, x] \&\& \text{NeQ}[b^2c - a^2d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$

3521.  $\text{Int}[(a_.) + (b_.)\sin[e_.] + (f_.)x]^m \cdot ((c_.) + (d_.)\sin[e_.] + (f_.)x)^n \cdot ((A_.) + (C_.)\sin[e_.] + (f_.)x)^2$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[a(A + C)\cos[e + fx] \cdot (a + b\sin[e + fx])^m \cdot ((c + d\sin[e + fx])^{n+1} / (f(bc - ad)(2m + 1)))$ ,  $x]$  +  $\text{Simp}[1/(b(bc - ad)(2m + 1)) \text{Int}[(a + b\sin[e + fx])^{m+1} \cdot (c + d\sin[e + fx])^n \cdot \text{Simp}[A(a \cdot c(m + 1) - b \cdot d(2m + n + 2)) - C(a \cdot c \cdot m + b \cdot d(n + 1)) + (a \cdot A \cdot d(m + n + 2) + C(b \cdot c(2m + 1) - a \cdot d(m - n - 1)) \cdot \sin[e + fx]$ ,  $x]$ ,  $x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, A, C, n\}, x]$  &&  $\text{NeQ}[b \cdot c - a \cdot d, 0]$  &&  $\text{EqQ}[a^2 - b^2, 0]$  &&  $\text{NeQ}[c^2 - d^2, 0]$  &&  $\text{LtQ}[m, -2^{(-1)}]$
3522.  $\text{Int}[(a_.) + (b_.)\sin[e_.] + (f_.)x]^m \cdot ((c_.) + (d_.)\sin[e_.] + (f_.)x)^n \cdot ((A_.) + (B_.)\sin[e_.] + (f_.)x) + (C_.)\sin[e_.] + (f_.)x)^2$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[(-c^2C - B \cdot c \cdot d + A \cdot d^2) \cdot \cos[e + fx] \cdot (a + b\sin[e + fx])^m \cdot ((c + d\sin[e + fx])^{n+1} / (d \cdot f \cdot (n + 1) \cdot (c^2 - d^2)))$ ,  $x]$  +  $\text{Simp}[1/(b \cdot d \cdot (n + 1) \cdot (c^2 - d^2)) \text{Int}[(a + b\sin[e + fx])^m \cdot (c + d\sin[e + fx])^{n+1} \cdot \text{Simp}[A \cdot d \cdot (a \cdot d \cdot m + b \cdot c \cdot (n + 1)) + (c \cdot C - B \cdot d) \cdot (a \cdot c \cdot m + b \cdot d \cdot (n + 1)) + b \cdot (d \cdot (B \cdot c - A \cdot d) \cdot (m + n + 2) - C \cdot (c^2 \cdot (m + 1) + d^2 \cdot (n + 1))) \cdot \sin[e + fx]$ ,  $x]$ ,  $x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, A, B, C, m\}, x]$  &&  $\text{NeQ}[b \cdot c - a \cdot d, 0]$  &&  $\text{EqQ}[a^2 - b^2, 0]$  &&  $\text{NeQ}[c^2 - d^2, 0]$  &&  $\text{!LtQ}[m, -2^{(-1)}]$  &&  $(\text{LtQ}[n, -1] \parallel \text{EqQ}[m + n + 2, 0])$
3523.  $\text{Int}[(a_.) + (b_.)\sin[e_.] + (f_.)x]^m \cdot ((c_.) + (d_.)\sin[e_.] + (f_.)x)^n \cdot ((A_.) + (C_.)\sin[e_.] + (f_.)x)^2$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[(-c^2C + A \cdot d^2) \cdot \cos[e + fx] \cdot (a + b\sin[e + fx])^m \cdot ((c + d\sin[e + fx])^{n+1} / (d \cdot f \cdot (n + 1) \cdot (c^2 - d^2)))$ ,  $x]$  +  $\text{Simp}[1/(b \cdot d \cdot (n + 1) \cdot (c^2 - d^2)) \text{Int}[(a + b\sin[e + fx])^m \cdot (c + d\sin[e + fx])^{n+1} \cdot \text{Simp}[A \cdot d \cdot (a \cdot d \cdot m + b \cdot c \cdot (n + 1)) + c \cdot C \cdot (a \cdot c \cdot m + b \cdot d \cdot (n + 1)) - b \cdot (A \cdot d^2 \cdot (m + n + 2) + C \cdot (c^2 \cdot (m + 1) + d^2 \cdot (n + 1))) \cdot \sin[e + fx]$ ,  $x]$ ,  $x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, A, C, m\}, x]$  &&  $\text{NeQ}[b \cdot c - a \cdot d, 0]$  &&  $\text{EqQ}[a^2 - b^2, 0]$  &&  $\text{NeQ}[c^2 - d^2, 0]$  &&  $\text{!LtQ}[m, -2^{(-1)}]$  &&  $(\text{LtQ}[n, -1] \parallel \text{EqQ}[m + n + 2, 0])$
3524.  $\text{Int}[(a_.) + (b_.)\sin[e_.] + (f_.)x]^m \cdot ((c_.) + (d_.)\sin[e_.] + (f_.)x)^n \cdot ((A_.) + (B_.)\sin[e_.] + (f_.)x) + (C_.)\sin[e_.] + (f_.)x)^2$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[(-C) \cdot \cos[e + fx] \cdot (a +$



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    b*Sin[e + f*x]]^m*((c + d*Sin[e + f*x])^(n + 1)/(d*f*(m + n + 2))), x
  ] + Simp[1/(b*d*(m + n + 2)) Int[(a + b*Sin[e + f*x])^m*(c + d*Sin[e
    + f*x])^n*Simp[A*b*d*(m + n + 2) + C*(a*c*m + b*d*(n + 1)) + (C*(a*d*
    m - b*c*(m + 1)) + b*B*d*(m + n + 2))*Sin[e + f*x], x], x], x] /; Free
  Q[{a, b, c, d, e, f, A, B, C, m, n}, x] && NeQ[b*c - a*d, 0] && EqQ[a^
  2 - b^2, 0] && NeQ[c^2 - d^2, 0] && !LtQ[m, -2^(-1)] && NeQ[m + n + 2
  , 0]

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3525. `Int[((a_) + (b_)*sin[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*sin[(e_) + (f_)*(x_)])^(n_)*((A_) + (C_)*sin[(e_) + (f_)*(x_)])^2), x_Symbol] :> Simp[(-C)*Cos[e + f*x]*(a + b*Sin[e + f*x])^m*((c + d*Sin[e + f*x])^(n + 1)/(d*f*(m + n + 2))), x] + Simp[1/(b*d*(m + n + 2)) Int[(a + b*Sin[e + f*x])^m*(c + d*Sin[e + f*x])^n*Simp[A*b*d*(m + n + 2) + C*(a*c*m + b*d*(n + 1)) + C*(a*d*m - b*c*(m + 1))*Sin[e + f*x], x], x], x] /; FreeQ[{a, b, c, d, e, f, A, C, m, n}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && !LtQ[m, -2^(-1)] && NeQ[m + n + 2, 0]`
3526. `Int[((a_) + (b_)*sin[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*sin[(e_) + (f_)*(x_)])^(n_)*((A_) + (B_)*sin[(e_) + (f_)*(x_)] + (C_)*sin[(e_) + (f_)*(x_)])^2), x_Symbol] :> Simp[(-(c^2*C - B*c*d + A*d^2))*Cos[e + f*x]*(a + b*Sin[e + f*x])^m*((c + d*Sin[e + f*x])^(n + 1)/(d*f*(n + 1)*(c^2 - d^2))), x] + Simp[1/(d*(n + 1)*(c^2 - d^2)) Int[(a + b*Sin[e + f*x])^(m - 1)*(c + d*Sin[e + f*x])^(n + 1)*Simp[A*d*(b*d*m + a*c*(n + 1)) + (c*C - B*d)*(b*c*m + a*d*(n + 1)) - (d*(A*(a*d*(n + 2) - b*c*(n + 1)) + B*(b*d*(n + 1) - a*c*(n + 2))) - C*(b*c*d*(n + 1) - a*(c^2 + d^2*(n + 1)))]*Sin[e + f*x] + b*(d*(B*c - A*d)*(m + n + 2) - C*(c^2*(m + 1) + d^2*(n + 1)))*Sin[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, A, B, C}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && GtQ[m, 0] && LtQ[n, -1]`
3527. `Int[((a_) + (b_)*sin[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*sin[(e_) + (f_)*(x_)])^(n_)*((A_) + (C_)*sin[(e_) + (f_)*(x_)])^2), x_Symbol] :> Simp[(-(c^2*C + A*d^2))*Cos[e + f*x]*(a + b*Sin[e + f*x])^m*((c + d*Sin[e + f*x])^(n + 1)/(d*f*(n + 1)*(c^2 - d^2))), x] + Simp[1/(d*(n + 1)*(c^2 - d^2)) Int[(a + b*Sin[e + f*x])^(m - 1)*(c + d*Sin[e + f*x])^(n + 1)*Simp[A*d*(b*d*m + a*c*(n + 1)) + c*C*(b*c*m + a*d*(n + 1)) - (A*d*(a*d*(n + 2) - b*c*(n + 1)) - C*(b*c*d*(n + 1) - a*(c^2`

- $+ d^2(n + 1))$))*Sin[e + f*x] - b*(A*d^2*(m + n + 2) + C*(c^2*(m + 1) + d^2*(n + 1)))*Sin[e + f*x]^2, x], x] /; FreeQ[{a, b, c, d, e, f, A, C}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && GtQ[m, 0] && LtQ[n, -1]
3528. Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_.)*((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)])^(n_.)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)] + (C_.)*sin[(e_.) + (f_.)*(x_)]^2), x_Symbol] :> Simp[(-C)*Cos[e + f*x]*(a + b*Sine + f*x)]^m*((c + d*Sine + f*x)]^(n + 1)/(d*f*(m + n + 2))), x] + Simp[1/(d*(m + n + 2)) Int[(a + b*Sine + f*x)]^(m - 1)*(c + d*Sine + f*x)]^n*Simp[a*A*d*(m + n + 2) + C*(b*c*m + a*d*(n + 1)) + (d*(A*b + a*B)*(m + n + 2) - C*(a*c - b*d*(m + n + 1)))*Sine + f*x] + (C*(a*d*m - b*c*(m + 1)) + b*B*d*(m + n + 2))*Sine + f*x]^2, x], x] /; FreeQ[{a, b, c, d, e, f, A, B, C, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && GtQ[m, 0] && !(IGtQ[n, 0] && (!IntegerQ[m] || (EqQ[a, 0] && NeQ[c, 0])))
3529. Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)])^(m_.)*((c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)])^(n_.)*((A_.) + (C_.)*sin[(e_.) + (f_.)*(x_)]^2), x_Symbol] :> Simp[(-C)*Cos[e + f*x]*(a + b*Sine + f*x)]^m*((c + d*Sine + f*x)]^(n + 1)/(d*f*(m + n + 2))), x] + Simp[1/(d*(m + n + 2)) Int[(a + b*Sine + f*x)]^(m - 1)*(c + d*Sine + f*x)]^n*Simp[a*A*d*(m + n + 2) + C*(b*c*m + a*d*(n + 1)) + (A*b*d*(m + n + 2) - C*(a*c - b*d*(m + n + 1)))*Sine + f*x] + C*(a*d*m - b*c*(m + 1))*Sine + f*x]^2, x], x] /; FreeQ[{a, b, c, d, e, f, A, C, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] && GtQ[m, 0] && !(IGtQ[n, 0] && (!IntegerQ[m] || (EqQ[a, 0] && NeQ[c, 0])))
3530. Int[((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)] + (C_.)*sin[(e_.) + (f_.)*(x_)]^2)/(Sqrt[(d_.)*sin[(e_.) + (f_.)*(x_)]*((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(3/2))), x_Symbol] :> Simp[C/(b*d) Int[Sqrt[d*Sine + f*x]]/Sqrt[a + b*Sine + f*x]], x], x] + Simp[1/b Int[(A*b + (b*B - a*C)*Sine + f*x)]/((a + b*Sine + f*x)]^(3/2)*Sqrt[d*Sine + f*x]], x], x] /; FreeQ[{a, b, d, e, f, A, B, C}, x] && NeQ[a^2 - b^2, 0]
3531. Int[((A_.) + (C_.)*sin[(e_.) + (f_.)*(x_)]^2)/(Sqrt[(d_.)*sin[(e_.) + (f_.)*(x_)]*((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(3/2))), x_Symbol]

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:> Simp[C/(b*d) Int[Sqrt[d*Sin[e + f*x]]/Sqrt[a + b*Sin[e + f*x]], x
], x] + Simp[1/b Int[(A*b - a*C*Sin[e + f*x])/((a + b*Sin[e + f*x])^(
3/2)*Sqrt[d*Sin[e + f*x]])], x], x] /; FreeQ[{a, b, d, e, f, A, C}, x]
&& NeQ[a^2 - b^2, 0]

3532. Int[((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)] + (C_.)*sin[(e_.) + (f_.)*(
x_)^2]/(((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(3/2)*Sqrt[(c_.) + (d
_.)*sin[(e_.) + (f_.)*(x_)])), x_Symbol] :> Simp[C/b^2 Int[Sqrt[a +
b*Sin[e + f*x]]/Sqrt[c + d*Sin[e + f*x]], x], x] + Simp[1/b^2 Int[(A
*b^2 - a^2*C + b*(b*B - 2*a*C)*Sin[e + f*x])/((a + b*Sin[e + f*x])^(3/
2)*Sqrt[c + d*Sin[e + f*x]])], x], x] /; FreeQ[{a, b, c, d, e, f, A, B,
C}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]

3533. Int[((A_.) + (C_.)*sin[(e_.) + (f_.)*(x_)]^2)/(((a_.) + (b_.)*sin[(e_.
) + (f_.)*(x_)]^(3/2)*Sqrt[(c_.) + (d_.)*sin[(e_.) + (f_.)*(x_)])), x
_Symbol] :> Simp[C/b^2 Int[Sqrt[a + b*Sin[e + f*x]]/Sqrt[c + d*Sin[e
+ f*x]], x], x] + Simp[1/b^2 Int[(A*b^2 - a^2*C - 2*a*b*C*Sin[e + f
*x])/((a + b*Sin[e + f*x])^(3/2)*Sqrt[c + d*Sin[e + f*x]])], x], x] /;
FreeQ[{a, b, c, d, e, f, A, C}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b
^2, 0] && NeQ[c^2 - d^2, 0]

3534. Int[((a_.) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(m_))*((c_.) + (d_.)*sin[(e
_.) + (f_.)*(x_)]^(n_))*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)] + (C_.)
*Sin[(e_.) + (f_.)*(x_)]^2), x_Symbol] :> Simp[(-(A*b^2 - a*b*B + a^2*
C))*Cos[e + f*x]*(a + b*Sin[e + f*x])^(m + 1)*((c + d*Sin[e + f*x])^(n
+ 1)/(f*(m + 1)*(b*c - a*d)*(a^2 - b^2))), x] + Simp[1/((m + 1)*(b*c
- a*d)*(a^2 - b^2)) Int[(a + b*Sin[e + f*x])^(m + 1)*(c + d*Sin[e +
f*x])^n*Simp[(m + 1)*(b*c - a*d)*(a*A - b*B + a*C) + d*(A*b^2 - a*b*B
+ a^2*C)*(m + n + 2) - (c*(A*b^2 - a*b*B + a^2*C) + (m + 1)*(b*c - a*d
))*(A*b - a*B + b*C))*Sin[e + f*x] - d*(A*b^2 - a*b*B + a^2*C)*(m + n +
3)*Sin[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, A, B, C, n}
, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0] &&
LtQ[m, -1] && ((EqQ[a, 0] && IntegerQ[m] && !IntegerQ[n]) || !(Inte
gerQ[2*n] && LtQ[n, -1] && ((IntegerQ[n] && !IntegerQ[m]) || EqQ[a, 0
])))

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3535. $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}\left((A_{\cdot}) + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{-\left(A_{\cdot}b^2 + a^2C_{\cdot}\right)\cos[e + fx]\left(a + b\sin[e + fx]\right)^{(m+1)}\left(c + d\sin[e + fx]\right)^{(n+1)}}{f(m+1)(bc - ad)(a^2 - b^2)}, x\right] + \text{Simp}\left[\frac{1}{(m+1)(bc - ad)(a^2 - b^2)} \text{Int}\left[\left(a + b\sin[e + fx]\right)^{(m+1)}\left(c + d\sin[e + fx]\right)^n \text{Simp}\left[a(m+1)(bc - ad)(A + C) + d(A_{\cdot}b^2 + a^2C_{\cdot})(m+n+2) - (c(A_{\cdot}b^2 + a^2C_{\cdot}) + b(m+1)(bc - ad)(A + C))\sin[e + fx] - d(A_{\cdot}b^2 + a^2C_{\cdot})(m+n+3)\sin[e + fx]^2, x\right], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, A, C, n\}, x\} \&\& \text{NeQ}[bc - ad, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{LtQ}[m, -1] \&\& \left(\left(\text{EqQ}[a, 0] \&\& \text{IntegerQ}[m] \&\& \text{!IntegerQ}[n]\right) \mid\mid \text{!(IntegerQ}[2*n] \&\& \text{LtQ}[n, -1] \&\& \left(\text{IntegerQ}[n] \&\& \text{!IntegerQ}[m]\right) \mid\mid \text{EqQ}[a, 0])\right)$
3536. $\text{Int}\left[\frac{\left((A_{\cdot}) + (B_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^2}{\left(\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\right)}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[C\frac{x}{(b*d)}, x\right] + \left(\text{Simp}\left[\frac{A_{\cdot}b^2 - a_{\cdot}bB + a^2C_{\cdot}}{b(bc - ad)} \text{Int}\left[\frac{1}{a + b\sin[e + fx]}, x\right], x\right] - \text{Simp}\left[\frac{c^2C - B_{\cdot}c_{\cdot}d + A_{\cdot}d^2}{d(bc - ad)} \text{Int}\left[\frac{1}{c + d\sin[e + fx]}, x\right], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C\}, x\} \&\& \text{NeQ}[bc - ad, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3537. $\text{Int}\left[\frac{\left((A_{\cdot}) + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^2}{\left(\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\right)}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[C\frac{x}{(b*d)}, x\right] + \left(\text{Simp}\left[\frac{A_{\cdot}b^2 + a^2C_{\cdot}}{b(bc - ad)} \text{Int}\left[\frac{1}{a + b\sin[e + fx]}, x\right], x\right] - \text{Simp}\left[\frac{c^2C + A_{\cdot}d^2}{d(bc - ad)} \text{Int}\left[\frac{1}{c + d\sin[e + fx]}, x\right], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, A, C\}, x\} \&\& \text{NeQ}[bc - ad, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3538. $\text{Int}\left[\frac{\left((A_{\cdot}) + (B_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^2}{\left(\text{Sqrt}\left[(a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\right)}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[C/(b*d) \text{Int}\left[\text{Sqrt}[a + b\sin[e + fx]], x\right], x\right] - \text{Simp}\left[\frac{1}{(b*d)} \text{Int}\left[\text{Simp}\left[a_{\cdot}c_{\cdot}C - A_{\cdot}b_{\cdot}d + (b_{\cdot}c_{\cdot}C - b_{\cdot}B_{\cdot}d + a_{\cdot}C_{\cdot}d)\sin[e + fx], x\right]/\left(\text{Sqrt}[a + b\sin[e + fx]]\right)\left(c + d\sin[e + fx]\right), x\right], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C\}, x\} \&\& \text{NeQ}[bc - ad, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$

3539. $\text{Int}[\frac{(A_.) + (C_.)\sin[(e_.) + (f_.)x]}{\sqrt{(a_.) + (b_.)\sin[(e_.) + (f_.)x]}}], x_{\text{Symbol}}] \rightarrow \text{Simp}[C/(b*d) \text{ Int}[\sqrt{a + b\sin[e + f*x]}, x], x] - \text{Simp}[1/(b*d) \text{ Int}[\text{Simp}[a*c*C - A*b*d + (b*c*C + a*C*d)*\sin[e + f*x], x]/\sqrt{a + b\sin[e + f*x]}*(c + d*\sin[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3540. $\text{Int}[\frac{(A_.) + (B_.)\sin[(e_.) + (f_.)x] + (C_.)\sin[(e_.) + (f_.)x]^2}{\sqrt{(a_.) + (b_.)\sin[(e_.) + (f_.)x]}*\sqrt{(c_.) + (d_.)\sin[(e_.) + (f_.)x]}}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(-C)*\cos[e + f*x]*(\sqrt{c + d*\sin[e + f*x]}/(d*f*\sqrt{a + b*\sin[e + f*x]})), x] + \text{Simp}[1/(2*d) \text{ Int}[(1/((a + b*\sin[e + f*x])^{3/2})*\sqrt{c + d*\sin[e + f*x]})]*\text{Simp}[2*a*A*d - C*(b*c - a*d) - 2*(a*c*C - d*(A*b + a*B))*\sin[e + f*x] + (2*b*B*d - C*(b*c + a*d))*\sin[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3541. $\text{Int}[\frac{(A_.) + (C_.)\sin[(e_.) + (f_.)x]^2}{\sqrt{(a_.) + (b_.)\sin[(e_.) + (f_.)x]}*\sqrt{(c_.) + (d_.)\sin[(e_.) + (f_.)x]}}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(-C)*\cos[e + f*x]*(\sqrt{c + d*\sin[e + f*x]}/(d*f*\sqrt{a + b*\sin[e + f*x]})), x] + \text{Simp}[1/(2*d) \text{ Int}[(1/((a + b*\sin[e + f*x])^{3/2})*\sqrt{c + d*\sin[e + f*x]})]*\text{Simp}[2*a*A*d - C*(b*c - a*d) - 2*(a*c*C - A*b*d)*\sin[e + f*x] - C*(b*c + a*d)*\sin[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3542. $\text{Int}[\frac{((d_.)\sin[(e_.) + (f_.)x])^{(n_.)}*((A_.) + (B_.)\sin[(e_.) + (f_.)x] + (C_.)\sin[(e_.) + (f_.)x]^2)}{((a_.) + (b_.)\sin[(e_.) + (f_.)x])^2}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(b*B - a*C)/b^2 \text{ Int}[(d*\sin[e + f*x])^n, x], x] + (\text{Simp}[(A*b^2 - a*b*B + a^2*C)/b^2 \text{ Int}[(d*\sin[e + f*x])^n/(a + b*\sin[e + f*x]), x], x] + \text{Simp}[C/(b*d) \text{ Int}[(d*\sin[e + f*x])^{(n+1)}, x], x]) /; \text{FreeQ}\{a, b, d, e, f, A, B, C, n\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
3543. $\text{Int}[\frac{((d_.)\sin[(e_.) + (f_.)x])^{(n_.)}*((A_.) + (C_.)\sin[(e_.) + (f_.)x]^2)}{((a_.) + (b_.)\sin[(e_.) + (f_.)x])}], x_{\text{Symbol}}] \rightarrow \text{S}$

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imp[(-a)*(C/b^2) Int[(d*SIN[e + f*x])^n, x], x] + (Simp[(A*b^2 + a^2
*C)/b^2 Int[(d*SIN[e + f*x])^n/(a + b*SIN[e + f*x]), x], x] + Simp[C
/(b*d) Int[(d*SIN[e + f*x])^(n + 1), x], x]) /; FreeQ[{a, b, d, e, f
, A, C, n}, x] && NeQ[a^2 - b^2, 0]

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3544.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})} \left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})} \left((A_{\cdot}) + (B_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(a + b\sin[e + f*x])^m (c + d\sin[e + f*x])^n (A + B\sin[e + f*x] + C\sin[e + f*x]^2), x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3545.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})} \left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})} \left((A_{\cdot}) + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(a + b\sin[e + f*x])^m (c + d\sin[e + f*x])^n (A + C\sin[e + f*x]^2), x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
3546.  $\text{Int}[\left((b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(p_{\cdot})} \left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})} \left((A_{\cdot}) + (B_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(b\sin[e + f*x]^p)^m / (b\sin[e + f*x])^{(m*p)} \text{Int}[(b\sin[e + f*x])^{(m*p)} (c + d\sin[e + f*x])^n (A + B\sin[e + f*x] + C\sin[e + f*x]^2), x], x] /; \text{FreeQ}\{b, c, d, e, f, A, B, C, m, n, p\}, x] \&\& \text{!IntegerQ}[m]$
3547.  $\text{Int}[\cos[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^{(p_{\cdot})} (b_{\cdot})^{(m_{\cdot})} \left((A_{\cdot}) + \cos[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (B_{\cdot}) + \cos[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2 (C_{\cdot})\right) \left((c_{\cdot}) + \cos[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (d_{\cdot})\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(b\cos[e + f*x]^p)^m / (b\cos[e + f*x])^{(m*p)} \text{Int}[(b\cos[e + f*x])^{(m*p)} (c + d\cos[e + f*x])^n (A + B\cos[e + f*x] + C\cos[e + f*x]^2), x], x] /; \text{FreeQ}\{b, c, d, e, f, A, B, C, m, n, p\}, x] \&\& \text{!IntegerQ}[m]$
3548.  $\text{Int}[\left((b_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(p_{\cdot})} \left((c_{\cdot}) + (d_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})} \left((A_{\cdot}) + (C_{\cdot})\sin[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(b\sin[e + f*x]^p)^m / (b\sin[e + f*x])^{(m*p)} \text{Int}[(b\sin[e + f*x])^{(m*p)} (c + d\sin[e + f*x])^n (A + C\sin[e + f*x]^2), x], x] /; \text{FreeQ}\{b, c, d, e, f, A, C, m, n, p\}, x] \&\& \text{!IntegerQ}[m]$

3549.  $\text{Int}[(\cos[e_.] + (f_.) \cdot (x_)]^{(p_)} \cdot (b_.)^{(m_)} \cdot ((A_.) + \cos[e_.] + (f_.) \cdot (x_)]^2 \cdot (C_.) \cdot ((c_.) + \cos[e_.] + (f_.) \cdot (x_)] \cdot (d_.)^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(b \cdot \cos[e + f \cdot x])^m / (b \cdot \cos[e + f \cdot x])^{(m \cdot p)} \text{Int}[(b \cdot \cos[e + f \cdot x])^{(m \cdot p)} \cdot (c + d \cdot \cos[e + f \cdot x])^n \cdot (A + C \cdot \cos[e + f \cdot x]^2), x], x] /; \text{FreeQ}\{b, c, d, e, f, A, C, m, n, p\}, x\} \&\& \text{!IntegerQ}[m]$
3550.  $\text{Int}[(\cos[(c_.) + (d_.) \cdot (x_)] \cdot (a_.) + (b_.) \cdot \sin[(c_.) + (d_.) \cdot (x_)]])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[a \cdot ((a \cdot \cos[c + d \cdot x] + b \cdot \sin[c + d \cdot x])^n / (b \cdot d \cdot n)), x] /; \text{FreeQ}\{a, b, c, d, n\}, x\} \&\& \text{EqQ}[a^2 + b^2, 0]$
3551.  $\text{Int}[(\cos[(c_.) + (d_.) \cdot (x_)] \cdot (a_.) + (b_.) \cdot \sin[(c_.) + (d_.) \cdot (x_)]])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[(a^2 + b^2 - x^2)^{(n-1)/2}], x], x, b \cdot \cos[c + d \cdot x] - a \cdot \sin[c + d \cdot x]], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{IGtQ}[(n-1)/2, 0]$
3552.  $\text{Int}[(\cos[(c_.) + (d_.) \cdot (x_)] \cdot (a_.) + (b_.) \cdot \sin[(c_.) + (d_.) \cdot (x_)]])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(-b \cdot \cos[c + d \cdot x] - a \cdot \sin[c + d \cdot x]) \cdot ((a \cdot \cos[c + d \cdot x] + b \cdot \sin[c + d \cdot x])^{(n-1)} / (d \cdot n)), x] + \text{Simp}[(n-1) \cdot ((a^2 + b^2) / n) \text{Int}[(a \cdot \cos[c + d \cdot x] + b \cdot \sin[c + d \cdot x])^{(n-2)}, x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{!IntegerQ}[(n-1)/2] \&\& \text{GtQ}[n, 1]$
3553.  $\text{Int}[(\cos[(c_.) + (d_.) \cdot (x_)] \cdot (a_.) + (b_.) \cdot \sin[(c_.) + (d_.) \cdot (x_)]])^{(-1)}, x\_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[1/(a^2 + b^2 - x^2)], x], x, b \cdot \cos[c + d \cdot x] - a \cdot \sin[c + d \cdot x]], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0]$
3554.  $\text{Int}[(\cos[(c_.) + (d_.) \cdot (x_)] \cdot (a_.) + (b_.) \cdot \sin[(c_.) + (d_.) \cdot (x_)]])^{(-2)}, x\_Symbol] \rightarrow \text{Simp}[\sin[c + d \cdot x] / (a \cdot d \cdot (a \cdot \cos[c + d \cdot x] + b \cdot \sin[c + d \cdot x])), x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0]$
3555.  $\text{Int}[(\cos[(c_.) + (d_.) \cdot (x_)] \cdot (a_.) + (b_.) \cdot \sin[(c_.) + (d_.) \cdot (x_)]])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(b \cdot \cos[c + d \cdot x] - a \cdot \sin[c + d \cdot x]) \cdot ((a \cdot \cos[c + d \cdot x] + b \cdot \sin[c + d \cdot x])^{(n+1)} / (d \cdot (n+1) \cdot (a^2 + b^2))), x] + \text{Simp}[(n+2) / ((n+1) \cdot (a^2 + b^2)) \text{Int}[(a \cdot \cos[c + d \cdot x] + b \cdot \sin[c + d \cdot x])^{(n+1)}, x], x]$

- 2), x], x] /; FreeQ[{a, b, c, d}, x] && NeQ[a^2 + b^2, 0] && LtQ[n, -1] && NeQ[n, -2]
3556. Int[(cos[(c\_.) + (d\_.)\*(x\_)]\*(a\_.) + (b\_.)\*sin[(c\_.) + (d\_.)\*(x\_)])^(n\_), x\_Symbol] := Simp[(a^2 + b^2)^(n/2) Int[Cos[c + d\*x - ArcTan[a, b]]^n, x], x] /; FreeQ[{a, b, c, d, n}, x] && !(GeQ[n, 1] || LeQ[n, -1]) && GtQ[a^2 + b^2, 0]
3557. Int[(cos[(c\_.) + (d\_.)\*(x\_)]\*(a\_.) + (b\_.)\*sin[(c\_.) + (d\_.)\*(x\_)])^(n\_), x\_Symbol] := Simp[(a\*Cos[c + d\*x] + b\*Sin[c + d\*x])^n/((a\*Cos[c + d\*x] + b\*Sin[c + d\*x])/Sqrt[a^2 + b^2])^n Int[Cos[c + d\*x - ArcTan[a, b]]^n, x], x] /; FreeQ[{a, b, c, d, n}, x] && !(GeQ[n, 1] || LeQ[n, -1]) && !(GtQ[a^2 + b^2, 0] || EqQ[a^2 + b^2, 0])
3558. Int[sin[(c\_.) + (d\_.)\*(x\_)]^(m\_)\*(cos[(c\_.) + (d\_.)\*(x\_)]\*(a\_.) + (b\_.)\*sin[(c\_.) + (d\_.)\*(x\_)])^(n\_), x\_Symbol] := Simp[(-a)\*((a\*Cos[c + d\*x] + b\*Sin[c + d\*x])^(n - 1)/(d\*(n - 1)\*Sin[c + d\*x]^(n - 1))), x] + Simp[2\*b Int[(a\*Cos[c + d\*x] + b\*Sin[c + d\*x])^(n - 1)/Sin[c + d\*x]^(n - 1), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[m + n, 0] && EqQ[a^2 + b^2, 0] && GtQ[n, 1]
3559. Int[cos[(c\_.) + (d\_.)\*(x\_)]^(m\_)\*(cos[(c\_.) + (d\_.)\*(x\_)]\*(a\_.) + (b\_.)\*sin[(c\_.) + (d\_.)\*(x\_)])^(n\_), x\_Symbol] := Simp[b\*((a\*Cos[c + d\*x] + b\*Sin[c + d\*x])^(n - 1)/(d\*(n - 1)\*Cos[c + d\*x]^(n - 1))), x] + Simp[2\*a Int[(a\*Cos[c + d\*x] + b\*Sin[c + d\*x])^(n - 1)/Cos[c + d\*x]^(n - 1), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[m + n, 0] && EqQ[a^2 + b^2, 0] && GtQ[n, 1]
3560. Int[sin[(c\_.) + (d\_.)\*(x\_)]^(m\_.)\*(cos[(c\_.) + (d\_.)\*(x\_)]\*(a\_.) + (b\_.)\*sin[(c\_.) + (d\_.)\*(x\_)])^(n\_), x\_Symbol] := Simp[a\*((a\*Cos[c + d\*x] + b\*Sin[c + d\*x])^n/(2\*b\*d\*n\*Sin[c + d\*x]^n), x] + Simp[1/(2\*b) Int[(a\*Cos[c + d\*x] + b\*Sin[c + d\*x])^(n + 1)/Sin[c + d\*x]^(n + 1), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[m + n, 0] && EqQ[a^2 + b^2, 0] && LtQ[n, 0]
3561. Int[cos[(c\_.) + (d\_.)\*(x\_)]^(m\_.)\*(cos[(c\_.) + (d\_.)\*(x\_)]\*(a\_.) + (b\_.)\*sin[(c\_.) + (d\_.)\*(x\_)])^(n\_), x\_Symbol] := Simp[(-b)\*((a\*Cos[c + d



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*x] + b*Sin[c + d*x]^n/(2*a*d*n*Cos[c + d*x]^n), x] + Simp[1/(2*a)
  Int[(a*Cos[c + d*x] + b*Sin[c + d*x])^(n + 1)/Cos[c + d*x]^(n + 1), x
], x] /; FreeQ[{a, b, c, d}, x] && EqQ[m + n, 0] && EqQ[a^2 + b^2, 0]
&& LtQ[n, 0]

3562. Int[sin[(c_.) + (d_.)*(x_)]^(m_.)*(cos[(c_.) + (d_.)*(x_)]*(a_.) + (b_.)
  .)*sin[(c_.) + (d_.)*(x_)]^(n_), x_Symbol] := Simp[a*((a*Cos[c + d*x]
  + b*Sin[c + d*x])^n/(2*b*d*n*Sin[c + d*x]^n))*Hypergeometric2F1[1, n,
  n + 1, (b + a*Cot[c + d*x])/(2*b)], x] /; FreeQ[{a, b, c, d, n}, x] &&
  & EqQ[m + n, 0] && EqQ[a^2 + b^2, 0] && !IntegerQ[n]

3563. Int[cos[(c_.) + (d_.)*(x_)]^(m_.)*(cos[(c_.) + (d_.)*(x_)]*(a_.) + (b_.)
  .)*sin[(c_.) + (d_.)*(x_)]^(n_), x_Symbol] := Simp[(-b)*((a*Cos[c + d
  *x] + b*Sin[c + d*x])^n/(2*a*d*n*Cos[c + d*x]^n))*Hypergeometric2F1[1,
  n, n + 1, (a + b*Tan[c + d*x])/(2*a)], x] /; FreeQ[{a, b, c, d, n}, x]
  && EqQ[m + n, 0] && EqQ[a^2 + b^2, 0] && !IntegerQ[n]

3564. Int[sin[(c_.) + (d_.)*(x_)]^(m_.)*(cos[(c_.) + (d_.)*(x_)]*(a_.) + (b_.)
  .)*sin[(c_.) + (d_.)*(x_)]^(n_.), x_Symbol] := Int[(b + a*Cot[c + d*x]
  )^n, x] /; FreeQ[{a, b, c, d}, x] && EqQ[m + n, 0] && IntegerQ[n] && NeQ[
  a^2 + b^2, 0]

3565. Int[cos[(c_.) + (d_.)*(x_)]^(m_.)*(cos[(c_.) + (d_.)*(x_)]*(a_.) + (b_.)
  .)*sin[(c_.) + (d_.)*(x_)]^(n_.), x_Symbol] := Int[(a + b*Tan[c + d*x]
  )^n, x] /; FreeQ[{a, b, c, d}, x] && EqQ[m + n, 0] && IntegerQ[n] && NeQ[
  a^2 + b^2, 0]

3566. Int[sin[(c_.) + (d_.)*(x_)]^(m_.)*(cos[(c_.) + (d_.)*(x_)]*(a_.) + (b_.)
  .)*sin[(c_.) + (d_.)*(x_)]^(n_), x_Symbol] := Simp[1/d Subst[Int[x^
  m*((a + b*x)^n/(1 + x^2)^((m + n + 2)/2)), x], x, Tan[c + d*x]], x] /;
  FreeQ[{a, b, c, d}, x] && IntegerQ[n] && IntegerQ[(m + n)/2] && NeQ[n
  , -1] && !(GtQ[n, 0] && GtQ[m, 1])

3567. Int[cos[(c_.) + (d_.)*(x_)]^(m_.)*(cos[(c_.) + (d_.)*(x_)]*(a_.) + (b_.)
  .)*sin[(c_.) + (d_.)*(x_)]^(n_), x_Symbol] := Simp[-d^(-1) Subst[Int[x^
  m*((b + a*x)^n/(1 + x^2)^((m + n + 2)/2)), x], x, Cot[c + d*x]], x]
  /; FreeQ[{a, b, c, d}, x] && IntegerQ[n] && IntegerQ[(m + n)/2] && NeQ[
  a^2 + b^2, 0]

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$eQ[n, -1] \&\& \text{!(GtQ}[n, 0] \&\& \text{GtQ}[m, 1])$

3568. $\text{Int}[\sin[(c_.) + (d_.)(x_)]^{(m_.)}(\cos[(c_.) + (d_.)(x_)](a_.) + (b_.) \sin[(c_.) + (d_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[\sin[c + d*x]^m(a*\cos[c + d*x] + b*\sin[c + d*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IntegerQ}[m] \&\& \text{IGtQ}[n, 0]$
3569. $\text{Int}[\cos[(c_.) + (d_.)(x_)]^{(m_.)}(\cos[(c_.) + (d_.)(x_)](a_.) + (b_.) \sin[(c_.) + (d_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[\cos[c + d*x]^m(a*\cos[c + d*x] + b*\sin[c + d*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IntegerQ}[m] \&\& \text{IGtQ}[n, 0]$
3570. $\text{Int}[\sin[(c_.) + (d_.)(x_)]^{(m_.)}(\cos[(c_.) + (d_.)(x_)](a_.) + (b_.) \sin[(c_.) + (d_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[a^n b^n \text{Int}[\text{Sin}[c + d*x]^m / (b*\text{Cos}[c + d*x] + a*\text{Sin}[c + d*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{ILtQ}[n, 0]$
3571. $\text{Int}[\cos[(c_.) + (d_.)(x_)]^{(m_.)}(\cos[(c_.) + (d_.)(x_)](a_.) + (b_.) \sin[(c_.) + (d_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[a^n b^n \text{Int}[\text{Cos}[c + d*x]^m / (b*\text{Cos}[c + d*x] + a*\text{Sin}[c + d*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{ILtQ}[n, 0]$
3572. $\text{Int}[(\cos[(c_.) + (d_.)(x_)](a_.) + (b_.) \sin[(c_.) + (d_.)(x_)]^{(n_.)}) / \sin[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[-(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n + 1)} / (a*d*(n + 1)), x] + (\text{Simp}[1/a^2 \text{Int}[(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n + 2)} / \text{Sin}[c + d*x], x], x] - \text{Simp}[b/a^2 \text{Int}[(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n + 1)}, x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{LtQ}[n, -1]$
3573. $\text{Int}[(\cos[(c_.) + (d_.)(x_)](a_.) + (b_.) \sin[(c_.) + (d_.)(x_)]^{(n_.)}) / \cos[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n + 1)} / (b*d*(n + 1)), x] + (\text{Simp}[1/b^2 \text{Int}[(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n + 2)} / \text{Cos}[c + d*x], x], x] - \text{Simp}[a/b^2 \text{Int}[(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n + 1)}, x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{LtQ}[n, -1]$

3574. $\text{Int}[\sin[(c_.) + (d_.)(x_.)]^{(m_.)} * (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[-(a^2 + b^2) \text{Int}[\sin[c + d*x]^{(m + 2)} * (a*\cos[c + d*x] + b*\sin[c + d*x])^{(n - 2)}, x], x] + (\text{Simp}[a^2 \text{Int}[\sin[c + d*x]^m * (a*\cos[c + d*x] + b*\sin[c + d*x])^{(n - 2)}, x], x] + \text{Simp}[2*b \text{Int}[\sin[c + d*x]^{(m + 1)} * (a*\cos[c + d*x] + b*\sin[c + d*x])^{(n - 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{GtQ}[n, 1] \&\& \text{LtQ}[m, -1]$
3575. $\text{Int}[\cos[(c_.) + (d_.)(x_.)]^{(m_.)} * (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[-(a^2 + b^2) \text{Int}[\cos[c + d*x]^{(m + 2)} * (a*\cos[c + d*x] + b*\sin[c + d*x])^{(n - 2)}, x], x] + (\text{Simp}[2*a \text{Int}[\cos[c + d*x]^{(m + 1)} * (a*\cos[c + d*x] + b*\sin[c + d*x])^{(n - 1)}, x], x] + \text{Simp}[b^2 \text{Int}[\cos[c + d*x]^m * (a*\cos[c + d*x] + b*\sin[c + d*x])^{(n - 2)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{GtQ}[n, 1] \&\& \text{LtQ}[m, -1]$
3576. $\text{Int}[\sin[(c_.) + (d_.)(x_.)] / (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)]), x_Symbol] \rightarrow \text{Simp}[b*(x/(a^2 + b^2)), x] - \text{Simp}[a/(a^2 + b^2) \text{Int}[(b*\cos[c + d*x] - a*\sin[c + d*x]) / (a*\cos[c + d*x] + b*\sin[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0]$
3577. $\text{Int}[\cos[(c_.) + (d_.)(x_.)] / (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)]), x_Symbol] \rightarrow \text{Simp}[a*(x/(a^2 + b^2)), x] + \text{Simp}[b/(a^2 + b^2) \text{Int}[(b*\cos[c + d*x] - a*\sin[c + d*x]) / (a*\cos[c + d*x] + b*\sin[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0]$
3578. $\text{Int}[\sin[(c_.) + (d_.)(x_.)]^{(m_.)} / (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)]), x_Symbol] \rightarrow \text{Simp}[(-a) * (\sin[c + d*x]^{(m - 1)} / (d*(a^2 + b^2)*(m - 1))), x] + (\text{Simp}[a^2/(a^2 + b^2) \text{Int}[\sin[c + d*x]^{(m - 2)} / (a*\cos[c + d*x] + b*\sin[c + d*x]), x], x] + \text{Simp}[b/(a^2 + b^2) \text{Int}[\sin[c + d*x]^{(m - 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{GtQ}[m, 1]$
3579. $\text{Int}[\cos[(c_.) + (d_.)(x_.)]^{(m_.)} / (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)]), x_Symbol] \rightarrow \text{Simp}[b * (\cos[c + d*x]^{(m - 1)} /$

- $(d*(a^2 + b^2)*(m - 1))), x] + (\text{Simp}[a/(a^2 + b^2) \text{ Int}[\text{Cos}[c + d*x]^{m-1}, x], x] + \text{Simp}[b^2/(a^2 + b^2) \text{ Int}[\text{Cos}[c + d*x]^{m-2}/(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x]), x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{GtQ}[m, 1]$
3580. $\text{Int}[1/(\text{sin}[(c_.) + (d_.)*(x_.)]*(\text{cos}[(c_.) + (d_.)*(x_.)]*(a_.) + (b_.)*\text{sin}[(c_.) + (d_.)*(x_.)]))], x_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[\text{Cot}[c + d*x], x], x] - \text{Simp}[1/a \text{ Int}[(b*\text{Cos}[c + d*x] - a*\text{Sin}[c + d*x])/(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0]$
3581. $\text{Int}[1/(\text{cos}[(c_.) + (d_.)*(x_.)]*(\text{cos}[(c_.) + (d_.)*(x_.)]*(a_.) + (b_.)*\text{sin}[(c_.) + (d_.)*(x_.)]))], x_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[\text{Tan}[c + d*x], x], x] + \text{Simp}[1/b \text{ Int}[(b*\text{Cos}[c + d*x] - a*\text{Sin}[c + d*x])/(a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0]$
3582. $\text{Int}[\text{sin}[(c_.) + (d_.)*(x_.)]^{(m_)} / (\text{cos}[(c_.) + (d_.)*(x_.)]*(a_.) + (b_.)*\text{sin}[(c_.) + (d_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[\text{Sin}[c + d*x]^{(m+1)} / (a*d*(m+1)), x] + (-\text{Simp}[b/a^2 \text{ Int}[\text{Sin}[c + d*x]^{(m+1)}, x], x] + \text{Simp}[(a^2 + b^2)/a^2 \text{ Int}[\text{Sin}[c + d*x]^{(m+2)} / (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x]), x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{LtQ}[m, -1]$
3583. $\text{Int}[\text{cos}[(c_.) + (d_.)*(x_.)]^{(m_)} / (\text{cos}[(c_.) + (d_.)*(x_.)]*(a_.) + (b_.)*\text{sin}[(c_.) + (d_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[-\text{Cos}[c + d*x]^{(m+1)} / (b*d*(m+1)), x] + (-\text{Simp}[a/b^2 \text{ Int}[\text{Cos}[c + d*x]^{(m+1)}, x], x] + \text{Simp}[(a^2 + b^2)/b^2 \text{ Int}[\text{Cos}[c + d*x]^{(m+2)} / (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x]), x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{LtQ}[m, -1]$
3584. $\text{Int}[\text{sin}[(c_.) + (d_.)*(x_.)]^{(m_)} * (\text{cos}[(c_.) + (d_.)*(x_.)]*(a_.) + (b_.)*\text{sin}[(c_.) + (d_.)*(x_.)]^{(n_)}), x_Symbol] \rightarrow \text{Simp}[(a^2 + b^2)/a^2 \text{ Int}[\text{Sin}[c + d*x]^{(m+2)} * (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^n, x], x] + (\text{Simp}[1/a^2 \text{ Int}[\text{Sin}[c + d*x]^m * (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^n, x], x] - \text{Simp}[2*(b/a^2) \text{ Int}[\text{Sin}[c + d*x]^{(m+1)} * (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n+1)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}$

- [a^2 + b^2, 0] && LtQ[n, -1] && LtQ[m, -1]
3585. $\text{Int}[\cos[(c_.) + (d_.)(x_.)]^{(m_.)} * (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(a^2 + b^2)/b^2 \text{Int}[\text{Cos}[c + d*x]^{(m+2)} * (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^n, x], x] + (\text{Simp}[1/b^2 \text{Int}[\text{Cos}[c + d*x]^{(m)} * (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n+2)}, x], x] - \text{Simp}[2*(a/b^2) \text{Int}[\text{Cos}[c + d*x]^{(m+1)} * (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^{(n+1)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{LtQ}[n, -1] \&\& \text{LtQ}[m, -1]$
3586. $\text{Int}[\cos[(c_.) + (d_.)(x_.)]^{(m_.)} * \sin[(c_.) + (d_.)(x_.)]^{(n_.)} * (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)])^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[\text{Cos}[c + d*x]^{(m)} * \text{Sin}[c + d*x]^{(n)} * (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& \text{IGtQ}[p, 0]$
3587. $\text{Int}[\cos[(c_.) + (d_.)(x_.)]^{(m_.)} * \sin[(c_.) + (d_.)(x_.)]^{(n_.)} * (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)])^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[a^p * b^p \text{Int}[(\text{Cos}[c + d*x]^{(m)} * \text{Sin}[c + d*x]^{(n)}) / (b*\text{Cos}[c + d*x] + a*\text{Sin}[c + d*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{ILtQ}[p, 0]$
3588. $\text{Int}[(\cos[(c_.) + (d_.)(x_.)]^{(m_.)} * \sin[(c_.) + (d_.)(x_.)]^{(n_.)}) / (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)]), x_Symbol] \rightarrow \text{Simp}[b/(a^2 + b^2) \text{Int}[\text{Cos}[c + d*x]^{(m)} * \text{Sin}[c + d*x]^{(n-1)}, x], x] + (\text{Simp}[a/(a^2 + b^2) \text{Int}[\text{Cos}[c + d*x]^{(m-1)} * \text{Sin}[c + d*x]^{(n)}, x], x] - \text{Simp}[a*(b/(a^2 + b^2)) \text{Int}[\text{Cos}[c + d*x]^{(m-1)} * (\text{Sin}[c + d*x]^{(n-1)} / (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])), x], x]) /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
3589. $\text{Int}[(\cos[(c_.) + (d_.)(x_.)]^{(m_.)} * \sin[(c_.) + (d_.)(x_.)]^{(n_.)}) / (\cos[(c_.) + (d_.)(x_.)] * (a_.) + (b_.) * \sin[(c_.) + (d_.)(x_.)]), x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[\text{Cos}[c + d*x]^{(m)} * (\text{Sin}[c + d*x]^{(n)} / (a*\text{Cos}[c + d*x] + b*\text{Sin}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& \text{IntegersQ}[m, n]$

3590. $\text{Int}[\cos[(c_.) + (d_.)(x_.)]^{(m_.)} \sin[(c_.) + (d_.)(x_.)]^{(n_.)} (\cos[(c_.) + (d_.)(x_.)](a_.) + (b_.) \sin[(c_.) + (d_.)(x_.)])^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[b/(a^2 + b^2) \text{Int}[\text{Cos}[c + d*x]^m \text{Sin}[c + d*x]^{(n-1)} (a \text{Cos}[c + d*x] + b \text{Sin}[c + d*x])^{(p+1)}, x], x] + (\text{Simp}[a/(a^2 + b^2) \text{Int}[\text{Cos}[c + d*x]^{(m-1)} \text{Sin}[c + d*x]^n (a \text{Cos}[c + d*x] + b \text{Sin}[c + d*x])^{(p+1)}, x], x] - \text{Simp}[a*(b/(a^2 + b^2)) \text{Int}[\text{Cos}[c + d*x]^{(m-1)} \text{Sin}[c + d*x]^{(n-1)} (a \text{Cos}[c + d*x] + b \text{Sin}[c + d*x])^p, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{ILtQ}[p, 0]$
3591. $\text{Int}[\text{Sqrt}[\cos[(d_.) + (e_.)(x_.)](b_.) + (a_.) + (c_.) \sin[(d_.) + (e_.)(x_.)]], x_Symbol] \rightarrow \text{Simp}[-2*((c \text{Cos}[d + e*x] - b \text{Sin}[d + e*x]) / (e \text{Sqrt}[a + b \text{Cos}[d + e*x] + c \text{Sin}[d + e*x]])), x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0]$
3592. $\text{Int}[(\cos[(d_.) + (e_.)(x_.)](b_.) + (a_.) + (c_.) \sin[(d_.) + (e_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(- (c \text{Cos}[d + e*x] - b \text{Sin}[d + e*x])) * ((a + b \text{Cos}[d + e*x] + c \text{Sin}[d + e*x])^{(n-1)} / (e*n)), x] + \text{Simp}[a * ((2*n - 1) / n) \text{Int}[(a + b \text{Cos}[d + e*x] + c \text{Sin}[d + e*x])^{(n-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{GtQ}[n, 0]$
3593. $\text{Int}[(\cos[(d_.) + (e_.)(x_.)](b_.) + (a_.) + (c_.) \sin[(d_.) + (e_.)(x_.)])^{(-1)}, x_Symbol] \rightarrow \text{Simp}[-(c - a \text{Sin}[d + e*x]) / (c * e * (c \text{Cos}[d + e*x] - b \text{Sin}[d + e*x])), x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0]$
3594. $\text{Int}[1/\text{Sqrt}[\cos[(d_.) + (e_.)(x_.)](b_.) + (a_.) + (c_.) \sin[(d_.) + (e_.)(x_.)]], x_Symbol] \rightarrow \text{Int}[1/\text{Sqrt}[a + \text{Sqrt}[b^2 + c^2] \text{Cos}[d + e*x - \text{ArcTan}[b, c]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0]$
3595. $\text{Int}[(\cos[(d_.) + (e_.)(x_.)](b_.) + (a_.) + (c_.) \sin[(d_.) + (e_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(c \text{Cos}[d + e*x] - b \text{Sin}[d + e*x]) * ((a + b \text{Cos}[d + e*x] + c \text{Sin}[d + e*x])^n / (a * e * (2*n + 1))), x] + \text{Simp}[(n + 1) / (a * (2*n + 1)) \text{Int}[(a + b \text{Cos}[d + e*x] + c \text{Sin}[d + e*x])^{(n+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{LtQ}[n, -1]$

3596. `Int[Sqrt[cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]] , x_Symbol] := Simp[b/(c*e) Subst[Int[Sqrt[a + x]/x, x], x, b*Cos[d + e*x] + c*Sin[d + e*x]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[b^2 + c^2, 0]`
3597. `Int[Sqrt[cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]] , x_Symbol] := Int[Sqrt[a + Sqrt[b^2 + c^2]*Cos[d + e*x - ArcTan[b, c]], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 + c^2, 0] && GtQ[a + Sqrt[b^2 + c^2], 0]`
3598. `Int[Sqrt[cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]] , x_Symbol] := Simp[Sqrt[a + b*Cos[d + e*x] + c*Sin[d + e*x]]/Sqrt[(a + b*Cos[d + e*x] + c*Sin[d + e*x])/(a + Sqrt[b^2 + c^2])] Int[Sqrt[a/(a + Sqrt[b^2 + c^2]) + (Sqrt[b^2 + c^2]/(a + Sqrt[b^2 + c^2]))*Cos[d + e*x - ArcTan[b, c]], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[a^2 - b^2 - c^2, 0] && NeQ[b^2 + c^2, 0] && !GtQ[a + Sqrt[b^2 + c^2], 0]`
3599. `Int[(cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)])^(n_), x_Symbol] := Simp[(-(c*Cos[d + e*x] - b*Sin[d + e*x]))*((a + b*Cos[d + e*x] + c*Sin[d + e*x])^(n - 1)/(e*n)), x] + Simp[1/n Int[Simp[n*a^2 + (n - 1)*(b^2 + c^2) + a*b*(2*n - 1)*Cos[d + e*x] + a*c*(2*n - 1)*Sin[d + e*x], x]*(a + b*Cos[d + e*x] + c*Sin[d + e*x])^(n - 2), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[a^2 - b^2 - c^2, 0] && GtQ[n, 1]`
3600. `Int[(cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)])^(-1), x_Symbol] := Module[{f = FreeFactors[Cot[(d + e*x)/2], x]}, Simp[-f/e Subst[Int[1/(a + c*f*x), x], x, Cot[(d + e*x)/2]/f], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[a + b, 0]`
3601. `Int[(cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)])^(-1), x_Symbol] := Module[{f = FreeFactors[Tan[(d + e*x)/2 + Pi/4], x]}, Simp[f/e Subst[Int[1/(a + b*f*x), x], x, Tan[(d + e*x)/2 + Pi/4]/f], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[a + c, 0]`

3602. `Int[(cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]^(-1), x_Symbol] := Module[{f = FreeFactors[Cot[(d + e*x)/2 + Pi/4], x]}, Simp[-f/e Subst[Int[1/(a + b*f*x), x], x, Cot[(d + e*x)/2 + Pi/4]/f], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[a - c, 0] && NeQ[a - b, 0]`
3603. `Int[(cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]^(-1), x_Symbol] := Module[{f = FreeFactors[Tan[(d + e*x)/2], x]}, Simp[2*(f/e) Subst[Int[1/(a + b + 2*c*f*x + (a - b)*f^2*x^2), x], x, Tan[(d + e*x)/2]/f], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[a^2 - b^2 - c^2, 0]`
3604. `Int[1/Sqrt[cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]], x_Symbol] := Simp[b/(c*e) Subst[Int[1/(x*Sqrt[a + x]), x], x, b*Cos[d + e*x] + c*SIN[d + e*x]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[b^2 + c^2, 0]`
3605. `Int[1/Sqrt[cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]], x_Symbol] := Int[1/Sqrt[a + Sqrt[b^2 + c^2]*Cos[d + e*x - ArcTan[b, c]]], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[b^2 + c^2, 0] && GtQ[a + Sqrt[b^2 + c^2], 0]`
3606. `Int[1/Sqrt[cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]], x_Symbol] := Simp[Sqrt[(a + b*Cos[d + e*x] + c*SIN[d + e*x])/(a + Sqrt[b^2 + c^2])]/Sqrt[a + b*Cos[d + e*x] + c*SIN[d + e*x]] Int[1/Sqrt[a/(a + Sqrt[b^2 + c^2]) + (Sqrt[b^2 + c^2]/(a + Sqrt[b^2 + c^2]))*Cos[d + e*x - ArcTan[b, c]]], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[a^2 - b^2 - c^2, 0] && NeQ[b^2 + c^2, 0] && !GtQ[a + Sqrt[b^2 + c^2], 0]`
3607. `Int[(cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_) + (c_.)*sin[(d_.) + (e_.)*(x_)]^(-3/2), x_Symbol] := Simp[2*((c*Cos[d + e*x] - b*SIN[d + e*x])/(e*(a^2 - b^2 - c^2)*Sqrt[a + b*Cos[d + e*x] + c*SIN[d + e*x]]), x] + Simp[1/(a^2 - b^2 - c^2) Int[Sqrt[a + b*Cos[d + e*x] + c*SIN[d + e*x]], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[a^2 - b^2 - c^2, 0]`

3608. $\text{Int}[(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)])^{(n_)}, x_Symbol] \rightarrow \text{Simp}[((-c)*\text{Cos}[d + e*x] + b*\text{Sin}[d + e*x])*((a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x])^{(n + 1)})/(e*(n + 1)*(a^2 - b^2 - c^2))], x] + \text{Simp}[1/((n + 1)*(a^2 - b^2 - c^2)) \text{Int}[(a*(n + 1) - b*(n + 2)*\text{Cos}[d + e*x] - c*(n + 2)*\text{Sin}[d + e*x])*(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[n, -3/2]$
3609. $\text{Int}[((A_.) + \cos[(d_.) + (e_.)*(x_)]*(B_.) + (C_.)*\sin[(d_.) + (e_.)*(x_)])/(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[(2*a*A - b*B - c*C)*(x/(2*a^2)), x] + (-\text{Simp}[(b*B + c*C)*((b*\text{Cos}[d + e*x] - c*\text{Sin}[d + e*x])/(2*a*b*c*e)), x] + \text{Simp}[(a^2*(b*B - c*C) - 2*a*A*b^2 + b^2*(b*B + c*C))*(\text{Log}[\text{RemoveContent}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x], x]]/(2*a^2*b*c*e)), x]) /; \text{FreeQ}[\{a, b, c, d, e, A, B, C\}, x] \&\& \text{EqQ}[b^2 + c^2, 0]$
3610. $\text{Int}[((A_.) + (C_.)*\sin[(d_.) + (e_.)*(x_)])/(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[(2*a*A - c*C)*(x/(2*a^2)), x] + (-\text{Simp}[C*(\text{Cos}[d + e*x]/(2*a*e)), x] + \text{Simp}[c*C*(\text{Sin}[d + e*x]/(2*a*b*e)), x] + \text{Simp}[((-a^2)*C + 2*a*c*A + b^2*C)*(\text{Log}[\text{RemoveContent}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x], x]]/(2*a^2*b*e)), x]) /; \text{FreeQ}[\{a, b, c, d, e, A, C\}, x] \&\& \text{EqQ}[b^2 + c^2, 0]$
3611. $\text{Int}[((A_.) + \cos[(d_.) + (e_.)*(x_)]*(B_.))/(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[(2*a*A - b*B)*(x/(2*a^2)), x] + (\text{Simp}[B*(\text{Sin}[d + e*x]/(2*a*e)), x] - \text{Simp}[b*B*(\text{Cos}[d + e*x]/(2*a*c*e)), x] + \text{Simp}[(a^2*B - 2*a*b*A + b^2*B)*(\text{Log}[\text{RemoveContent}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x], x]]/(2*a^2*c*e)), x]) /; \text{FreeQ}[\{a, b, c, d, e, A, B\}, x] \&\& \text{EqQ}[b^2 + c^2, 0]$
3612. $\text{Int}[((A_.) + \cos[(d_.) + (e_.)*(x_)]*(B_.) + (C_.)*\sin[(d_.) + (e_.)*(x_)])/((a_.) + \cos[(d_.) + (e_.)*(x_)]*(b_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[(b*B + c*C)*(x/(b^2 + c^2)), x] + \text{Simp}[(c*B - b*C)*(\text{Log}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]]/(e*(b^2 + c^2))), x] /; \text{FreeQ}[\{a, b, c, d, e, A, B, C\}, x] \&\& \text{NeQ}[b^2 + c^2, 0] \&\& \text{EqQ}[A*(b^2 + c^2) - a*(b*B + c*C), 0]$

3613. $\text{Int}[\frac{(A_.) + (C_.)\sin[(d_.) + (e_.)x]}{(a_.) + \cos[(d_.) + (e_.)x]} \cdot (b_.) + (c_.)\sin[(d_.) + (e_.)x]}, x_Symbol] \rightarrow \text{Simp}[c*C*(x/(b^2 + c^2)), x] - \text{Simp}[b*C*(\text{Log}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]]/(e*(b^2 + c^2))), x] /; \text{FreeQ}\{a, b, c, d, e, A, C\}, x] \&\& \text{NeQ}[b^2 + c^2, 0] \&\& \text{EqQ}[A*(b^2 + c^2) - a*c*C, 0]$
3614. $\text{Int}[\frac{(A_.) + \cos[(d_.) + (e_.)x]}{(a_.) + \cos[(d_.) + (e_.)x]} \cdot (B_.) \cdot (x_.) + (c_.)\sin[(d_.) + (e_.)x]}, x_Symbol] \rightarrow \text{Simp}[b*B*(x/(b^2 + c^2)), x] + \text{Simp}[c*B*(\text{Log}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]]/(e*(b^2 + c^2))), x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x] \&\& \text{NeQ}[b^2 + c^2, 0] \&\& \text{EqQ}[A*(b^2 + c^2) - a*b*B, 0]$
3615. $\text{Int}[\frac{(A_.) + \cos[(d_.) + (e_.)x]}{(a_.) + \cos[(d_.) + (e_.)x]} \cdot (B_.) + (C_.)\sin[(d_.) + (e_.)x]}{(a_.) + \cos[(d_.) + (e_.)x]} \cdot (b_.) + (c_.)\sin[(d_.) + (e_.)x]}, x_Symbol] \rightarrow \text{Simp}[(b*B + c*C)*(x/(b^2 + c^2)), x] + (\text{Simp}[(c*B - b*C)*(\text{Log}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]]/(e*(b^2 + c^2))), x] + \text{Simp}[(A*(b^2 + c^2) - a*(b*B + c*C))/(b^2 + c^2) \text{Int}[1/(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, A, B, C\}, x] \&\& \text{NeQ}[b^2 + c^2, 0] \&\& \text{NeQ}[A*(b^2 + c^2) - a*(b*B + c*C), 0]$
3616. $\text{Int}[\frac{(A_.) + (C_.)\sin[(d_.) + (e_.)x]}{(a_.) + \cos[(d_.) + (e_.)x]} \cdot (b_.) + (c_.)\sin[(d_.) + (e_.)x]}, x_Symbol] \rightarrow \text{Simp}[c*C*(d + e*x)/(e*(b^2 + c^2)), x] + (-\text{Simp}[b*C*(\text{Log}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]]/(e*(b^2 + c^2))), x] + \text{Simp}[(A*(b^2 + c^2) - a*c*C)/(b^2 + c^2) \text{Int}[1/(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, A, C\}, x] \&\& \text{NeQ}[b^2 + c^2, 0] \&\& \text{NeQ}[A*(b^2 + c^2) - a*c*C, 0]$
3617. $\text{Int}[\frac{(A_.) + \cos[(d_.) + (e_.)x]}{(a_.) + \cos[(d_.) + (e_.)x]} \cdot (B_.) \cdot (x_.) + (c_.)\sin[(d_.) + (e_.)x]}, x_Symbol] \rightarrow \text{Simp}[b*B*(d + e*x)/(e*(b^2 + c^2)), x] + (\text{Simp}[c*B*(\text{Log}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]]/(e*(b^2 + c^2))), x] + \text{Simp}[(A*(b^2 + c^2) - a*b*B)/(b^2 + c^2) \text{Int}[1/(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x] \&\& \text{NeQ}[b^2 + c^2, 0] \&\& \text{NeQ}[A*(b^2 + c^2) - a*b*B, 0]$

3618. $\text{Int}[(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]))^n*((A_.) + \cos[(d_.) + (e_.)*(x_)]*(B_.) + (C_.)*\sin[(d_.) + (e_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[(B*c - b*C - a*C*\cos[d + e*x] + a*B*\sin[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B, C, n\}, x\} \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{EqQ}[(b*B + c*C)*n + a*A*(n + 1), 0]$
3619. $\text{Int}[(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]))^n*((A_.) + (C_.)*\sin[(d_.) + (e_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[(-b*C + a*C*\cos[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, C, n\}, x\} \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{EqQ}[c*C*n + a*A*(n + 1), 0]$
3620. $\text{Int}[(A_.) + \cos[(d_.) + (e_.)*(x_)]*(B_.)*(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]))^n, x_Symbol] \rightarrow \text{Simp}[(B*c + a*B*\sin[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B, n\}, x\} \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{EqQ}[b*B*n + a*A*(n + 1), 0]$
3621. $\text{Int}[(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]))^n*((A_.) + \cos[(d_.) + (e_.)*(x_)]*(B_.) + (C_.)*\sin[(d_.) + (e_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[(B*c - b*C - a*C*\cos[d + e*x] + a*B*\sin[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] + \text{Simp}[(b*B + c*C)*n + a*A*(n + 1)/(a*(n + 1)) \ \text{Int}[(a + b*\cos[d + e*x] + c*\sin[d + e*x])^n, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B, C, n\}, x\} \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{NeQ}[(b*B + c*C)*n + a*A*(n + 1), 0]$
3622. $\text{Int}[(\cos[(d_.) + (e_.)*(x_)]*(b_.) + (a_.) + (c_.)*\sin[(d_.) + (e_.)*(x_)]))^n*((A_.) + (C_.)*\sin[(d_.) + (e_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[(-b*C + a*C*\cos[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] + \text{Simp}[(c*C*n + a*A*(n + 1))/(a*(n + 1)) \ \text{Int}[(a + b*\cos[d + e*x] + c*\sin[d + e*x])^n, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, C, n\}, x\} \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{EqQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{NeQ}[c*C*n + a*A*(n + 1), 0]$

3623. $\text{Int}[(A_{\cdot}) + \cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(B_{\cdot})]*(\cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(b_{\cdot}) + (a_{\cdot}) + (c_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})])^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(B*c + a*B*\sin[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] + \text{Simp}[(b*B*n + a*A*(n + 1))/(a*(n + 1)) \text{Int}[(a + b*\cos[d + e*x] + c*\sin[d + e*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, A, B, n\}, x] \&\& \text{NeQ}[n, -1] \&\& \text{EqQ}[a^2 - b^2 - c^2, 0] \&\& \text{NeQ}[b*B*n + a*A*(n + 1), 0]$
3624. $\text{Int}[(\cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(b_{\cdot}) + (c_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})])^{(n_{\cdot})}*(\cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(B_{\cdot}) + (C_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]), x_{\text{Symbol}}] \rightarrow \text{Simp}[(c*B - b*C)*((b*\cos[d + e*x] + c*\sin[d + e*x])^{(n + 1)})/(e*(n + 1)*(b^2 + c^2)), x] /; \text{FreeQ}[\{b, c, d, e, B, C\}, x] \&\& \text{NeQ}[n, -1] \&\& \text{NeQ}[b^2 + c^2, 0] \&\& \text{EqQ}[b*B + c*C, 0]$
3625. $\text{Int}[(\cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(b_{\cdot}) + (a_{\cdot}) + (c_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})])^{(n_{\cdot})}*((A_{\cdot}) + \cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(B_{\cdot}) + (C_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]), x_{\text{Symbol}}] \rightarrow \text{Simp}[(B*c - b*C - a*C*\cos[d + e*x] + a*B*\sin[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] + \text{Simp}[1/(a*(n + 1)) \text{Int}[(a + b*\cos[d + e*x] + c*\sin[d + e*x])^{(n - 1)}*\text{Simp}[a*(b*B + c*C)*n + a^2*A*(n + 1) + (n*(a^2*B - B*c^2 + b*c*C) + a*b*A*(n + 1))*\cos[d + e*x] + (n*(b*B*c + a^2*C - b^2*C) + a*c*A*(n + 1))*\sin[d + e*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, A, B, C\}, x] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0]$
3626. $\text{Int}[(\cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(b_{\cdot}) + (a_{\cdot}) + (c_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})])^{(n_{\cdot})}*((A_{\cdot}) + (C_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-(b*C + a*C*\cos[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] + \text{Simp}[1/(a*(n + 1)) \text{Int}[(a + b*\cos[d + e*x] + c*\sin[d + e*x])^{(n - 1)}*\text{Simp}[a*c*C*n + a^2*A*(n + 1) + (c*b*C*n + a*b*A*(n + 1))*\cos[d + e*x] + (a^2*C*n - b^2*C*n + a*c*A*(n + 1))*\sin[d + e*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, A, C\}, x] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0]$
3627. $\text{Int}[(A_{\cdot}) + \cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(B_{\cdot})]*(\cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(b_{\cdot}) + (a_{\cdot}) + (c_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})])^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(B*c + a*B*\sin[d + e*x])*((a + b*\cos[d + e*x] + c*\sin[d + e*x])^n/(a*e*(n + 1))), x] + \text{Simp}[1/(a*(n + 1)) \text{Int}[(a + b*\cos[d + e*x] + c*\sin[d + e*x])^{(n - 1)}*(A_{\cdot}) + \cos[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]*(B_{\cdot}) + (C_{\cdot})*\sin[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, A, B, C\}, x] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0]$

- $(d + e*x)^{(n - 1)} * \text{Simp}[a*b*B*n + a^2*A*(n + 1) + (a^2*B*n - c^2*B*n + a*b*A*(n + 1))*\text{Cos}[d + e*x] + (b*c*B*n + a*c*A*(n + 1))*\text{Sin}[d + e*x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, A, B\}, x] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{NeQ}[a^2 - b^2 - c^2, 0]$
3628. $\text{Int}[\frac{((A_.) + \text{cos}[(d_.) + (e_.)*(x_.)]*(B_.) + (C_.)*\text{sin}[(d_.) + (e_.)*(x_.)])}{\text{Sqrt}[\text{cos}[(d_.) + (e_.)*(x_.)]*(b_.) + (a_.) + (c_.)*\text{sin}[(d_.) + (e_.)*(x_.)]]}, x_Symbol] :> \text{Simp}[B/b \ \text{Int}[\text{Sqrt}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]], x], x] + \text{Simp}[(A*b - a*B)/b \ \text{Int}[1/\text{Sqrt}[a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]], x], x] /; \text{FreeQ}[\{a, b, c, d, e, A, B, C\}, x] \ \&\& \ \text{EqQ}[B*c - b*C, 0] \ \&\& \ \text{NeQ}[A*b - a*B, 0]$
3629. $\text{Int}[\frac{((A_.) + \text{cos}[(d_.) + (e_.)*(x_.)]*(B_.) + (C_.)*\text{sin}[(d_.) + (e_.)*(x_.)])}{((a_.) + \text{cos}[(d_.) + (e_.)*(x_.)]*(b_.) + (c_.)*\text{sin}[(d_.) + (e_.)*(x_.)])^2}, x_Symbol] :> \text{Simp}[(c*B - b*C - (a*C - c*A)*\text{Cos}[d + e*x] + (a*B - b*A)*\text{Sin}[d + e*x])/((e*(a^2 - b^2 - c^2)*(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]))), x] /; \text{FreeQ}[\{a, b, c, d, e, A, B, C\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{EqQ}[a*A - b*B - c*C, 0]$
3630. $\text{Int}[\frac{((A_.) + (C_.)*\text{sin}[(d_.) + (e_.)*(x_.)])}{((a_.) + \text{cos}[(d_.) + (e_.)*(x_.)]*(b_.) + (c_.)*\text{sin}[(d_.) + (e_.)*(x_.)])^2}, x_Symbol] :> \text{Simp}[-(b*C + (a*C - c*A)*\text{Cos}[d + e*x] + b*A*\text{Sin}[d + e*x])/((e*(a^2 - b^2 - c^2)*(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]))), x] /; \text{FreeQ}[\{a, b, c, d, e, A, C\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{EqQ}[a*A - c*C, 0]$
3631. $\text{Int}[\frac{((A_.) + \text{cos}[(d_.) + (e_.)*(x_.)]*(B_.))}{((a_.) + \text{cos}[(d_.) + (e_.)*(x_.)]*(b_.) + (c_.)*\text{sin}[(d_.) + (e_.)*(x_.)])^2}, x_Symbol] :> \text{Simp}[(c*B + c*A*\text{Cos}[d + e*x] + (a*B - b*A)*\text{Sin}[d + e*x])/((e*(a^2 - b^2 - c^2)*(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]))), x] /; \text{FreeQ}[\{a, b, c, d, e, A, B\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2 - c^2, 0] \ \&\& \ \text{EqQ}[a*A - b*B, 0]$
3632. $\text{Int}[\frac{((A_.) + \text{cos}[(d_.) + (e_.)*(x_.)]*(B_.) + (C_.)*\text{sin}[(d_.) + (e_.)*(x_.)])}{((a_.) + \text{cos}[(d_.) + (e_.)*(x_.)]*(b_.) + (c_.)*\text{sin}[(d_.) + (e_.)*(x_.)])^2}, x_Symbol] :> \text{Simp}[(c*B - b*C - (a*C - c*A)*\text{Cos}[d + e*x] + (a*B - b*A)*\text{Sin}[d + e*x])/((e*(a^2 - b^2 - c^2)*(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]))), x] + \text{Simp}[(a*A - b*B - c*C)/(a^2 - b^2 - c^2) \ \text{Int}[1/(a + b*\text{Cos}[d + e*x] + c*\text{Sin}[d + e*x]), x], x] /; \text{FreeQ}[\{a, b, c, d, e,$

- $A, B, C\}, x] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0] \&\& \text{NeQ}[a*A - b*B - c*C, 0]$
3633. $\text{Int}[\frac{((A_{.}) + (C_{.})\sin[(d_{.}) + (e_{.})x])}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])} \cdot (b_{.}) + (c_{.})\sin[(d_{.}) + (e_{.})x]}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-(b * C + (a * C - c * A) * \cos[d + e * x] + b * A * \sin[d + e * x]) / (e * (a^2 - b^2 - c^2) * (a + b * \cos[d + e * x] + c * \sin[d + e * x])), x] + \text{Simp}[(a * A - c * C) / (a^2 - b^2 - c^2) \text{Int}[1 / (a + b * \cos[d + e * x] + c * \sin[d + e * x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, A, C\}, x] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0] \&\& \text{NeQ}[a * A - c * C, 0]$
3634. $\text{Int}[\frac{((A_{.}) + \cos[(d_{.}) + (e_{.})x]) * (B_{.})}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])} \cdot (b_{.}) + (c_{.})\sin[(d_{.}) + (e_{.})x]}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(c * B + c * A * \cos[d + e * x] + (a * B - b * A) * \sin[d + e * x]) / (e * (a^2 - b^2 - c^2) * (a + b * \cos[d + e * x] + c * \sin[d + e * x])), x] + \text{Simp}[(a * A - b * B) / (a^2 - b^2 - c^2) \text{Int}[1 / (a + b * \cos[d + e * x] + c * \sin[d + e * x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0] \&\& \text{NeQ}[a * A - b * B, 0]$
3635. $\text{Int}[\frac{((a_{.}) + \cos[(d_{.}) + (e_{.})x]) * (b_{.}) + (c_{.})\sin[(d_{.}) + (e_{.})x]}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])} \cdot ((A_{.}) + \cos[(d_{.}) + (e_{.})x]) * (B_{.}) + (C_{.})\sin[(d_{.}) + (e_{.})x]}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])^n} \cdot ((A_{.}) + \cos[(d_{.}) + (e_{.})x]) * (B_{.}) + (C_{.})\sin[(d_{.}) + (e_{.})x]}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])^n}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-(c * B - b * C - (a * C - c * A) * \cos[d + e * x] + (a * B - b * A) * \sin[d + e * x])) * ((a + b * \cos[d + e * x] + c * \sin[d + e * x])^{n+1}) / (e * (n + 1) * (a^2 - b^2 - c^2)), x] + \text{Simp}[1 / ((n + 1) * (a^2 - b^2 - c^2)) \text{Int}[(a + b * \cos[d + e * x] + c * \sin[d + e * x])^{n+1} * \text{Simp}[(n + 1) * (a * A - b * B - c * C) + (n + 2) * (a * B - b * A) * \cos[d + e * x] + (n + 2) * (a * C - c * A) * \sin[d + e * x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B, C\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0] \&\& \text{NeQ}[n, -2]$
3636. $\text{Int}[\frac{((a_{.}) + \cos[(d_{.}) + (e_{.})x]) * (b_{.}) + (c_{.})\sin[(d_{.}) + (e_{.})x]}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])} \cdot ((A_{.}) + (C_{.})\sin[(d_{.}) + (e_{.})x])}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])^n} \cdot ((A_{.}) + (C_{.})\sin[(d_{.}) + (e_{.})x])}{((a_{.}) + \cos[(d_{.}) + (e_{.})x])^n}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(b * C + (a * C - c * A) * \cos[d + e * x] + b * A * \sin[d + e * x]) * ((a + b * \cos[d + e * x] + c * \sin[d + e * x])^{n+1}) / (e * (n + 1) * (a^2 - b^2 - c^2)), x] + \text{Simp}[1 / ((n + 1) * (a^2 - b^2 - c^2)) \text{Int}[(a + b * \cos[d + e * x] + c * \sin[d + e * x])^{n+1} * \text{Simp}[(n + 1) * (a * A - c * C) - (n + 2) * b * A * \cos[d + e * x] + (n + 2) * (a * C - c * A) * \sin[d + e * x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, A, C\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0] \&\& \text{NeQ}[n, -2]$

3637. $\text{Int}[(A_.) + \cos[(d_.) + (e_.)(x_.)](B_.)]((a_.) + \cos[(d_.) + (e_.)(x_.)](b_.) + (c_.)\sin[(d_.) + (e_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[-(c*B + c*A*\cos[d + e*x] + (a*B - b*A)*\sin[d + e*x])*(a + b*\cos[d + e*x] + c*\sin[d + e*x])^{(n + 1)}/(e*(n + 1)*(a^2 - b^2 - c^2)), x] + \text{Simp}[1/((n + 1)*(a^2 - b^2 - c^2)) \text{Int}[(a + b*\cos[d + e*x] + c*\sin[d + e*x])^{(n + 1)}*\text{Simp}[(n + 1)*(a*A - b*B) + (n + 2)*(a*B - b*A)*\cos[d + e*x] - (n + 2)*c*A*\sin[d + e*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[a^2 - b^2 - c^2, 0] \&\& \text{NeQ}[n, -2]$
3638. $\text{Int}[(a_.) + (b_.)*\sec[(d_.) + (e_.)(x_.)] + (c_.)*\tan[(d_.) + (e_.)(x_.)]^{(-1)}, x_Symbol] \rightarrow \text{Int}[\cos[d + e*x]/(b + a*\cos[d + e*x] + c*\sin[d + e*x]), x] /; \text{FreeQ}\{a, b, c, d, e\}, x]$
3639. $\text{Int}[(a_.) + \csc[(d_.) + (e_.)(x_.)](b_.) + \cot[(d_.) + (e_.)(x_.)](c_.)]^{(-1)}, x_Symbol] \rightarrow \text{Int}[\sin[d + e*x]/(b + a*\sin[d + e*x] + c*\cos[d + e*x]), x] /; \text{FreeQ}\{a, b, c, d, e\}, x]$
3640. $\text{Int}[\cos[(d_.) + (e_.)(x_.)]^{(n_.)}((a_.) + (b_.)*\sec[(d_.) + (e_.)(x_.)] + (c_.)*\tan[(d_.) + (e_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Int}[(b + a*\cos[d + e*x] + c*\sin[d + e*x])^n, x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[n]$
3641. $\text{Int}[(a_.) + \csc[(d_.) + (e_.)(x_.)](b_.) + \cot[(d_.) + (e_.)(x_.)](c_.)]^{(n_.)}\sin[(d_.) + (e_.)(x_.)]^{(n_.)}, x_Symbol] \rightarrow \text{Int}[(b + a*\sin[d + e*x] + c*\cos[d + e*x])^n, x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[n]$
3642. $\text{Int}[\cos[(d_.) + (e_.)(x_.)]^{(n_.)}((a_.) + (b_.)*\sec[(d_.) + (e_.)(x_.)] + (c_.)*\tan[(d_.) + (e_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\cos[d + e*x]^n*((a + b*\sec[d + e*x] + c*\tan[d + e*x])^n/(b + a*\cos[d + e*x] + c*\sin[d + e*x])^n) \text{Int}[(b + a*\cos[d + e*x] + c*\sin[d + e*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{!IntegerQ}[n]$
3643. $\text{Int}[(a_.) + \csc[(d_.) + (e_.)(x_.)](b_.) + \cot[(d_.) + (e_.)(x_.)](c_.)]^{(n_.)}\sin[(d_.) + (e_.)(x_.)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\sin[d + e*x]^n*((a + b*\csc[d + e*x] + c*\cot[d + e*x])^n/(b + a*\sin[d + e*x] + c*\cos[d + e*x])^n) \text{Int}[(b + a*\sin[d + e*x] + c*\cos[d + e*x])^n, x], x]$

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/; FreeQ[{a, b, c, d, e}, x] && !IntegerQ[n]

3644. Int[sec[(d_.) + (e_.)*(x_)]^(n_.)*((a_.) + (b_.)*sec[(d_.) + (e_.)*(x_)] + (c_.)*tan[(d_.) + (e_.)*(x_)])^(m_), x_Symbol] := Int[1/(b + a*Cos[d + e*x] + c*Sin[d + e*x])^n, x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[m + n, 0] && IntegerQ[n]

3645. Int[csc[(d_.) + (e_.)*(x_)]^(n_.)*((a_.) + csc[(d_.) + (e_.)*(x_)]*(b_.) + cot[(d_.) + (e_.)*(x_)])*(c_.))^(m_), x_Symbol] := Int[1/(b + a*Sin[d + e*x] + c*Cos[d + e*x])^n, x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[m + n, 0] && IntegerQ[n]

3646. Int[sec[(d_.) + (e_.)*(x_)]^(n_.)*((a_.) + (b_.)*sec[(d_.) + (e_.)*(x_)] + (c_.)*tan[(d_.) + (e_.)*(x_)])^(m_), x_Symbol] := Simp[Sec[d + e*x]^n*((b + a*Cos[d + e*x] + c*Sin[d + e*x])^n/(a + b*Sec[d + e*x] + c*Tan[d + e*x])^n) Int[1/(b + a*Cos[d + e*x] + c*Sin[d + e*x])^n, x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[m + n, 0] && !IntegerQ[n]

3647. Int[csc[(d_.) + (e_.)*(x_)]^(n_.)*((a_.) + csc[(d_.) + (e_.)*(x_)]*(b_.) + cot[(d_.) + (e_.)*(x_)])*(c_.))^(m_), x_Symbol] := Simp[Csc[d + e*x]^n*((b + a*Sin[d + e*x] + c*Cos[d + e*x])^n/(a + b*Csc[d + e*x] + c*Cot[d + e*x])^n) Int[1/(b + a*Sin[d + e*x] + c*Cos[d + e*x])^n, x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[m + n, 0] && !IntegerQ[n]

3648. Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^2)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)]^2), x_Symbol] := Simp[(4*A*(2*a + b) + B*(4*a + 3*b))*(x/8), x] + (-Simp[b*B*Cos[e + f*x]*(Sin[e + f*x]^3/(4*f)), x] - Simp[(4*A*b + B*(4*a + 3*b))*Cos[e + f*x]*(Sin[e + f*x]/(8*f)), x]) /; FreeQ[{a, b, e, f, A, B}, x]

3649. Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^2)^(p)*((A_.) + (B_.)*sin[(e_.) + (f_.)*(x_)]^2), x_Symbol] := Simp[(-B)*Cos[e + f*x]*Sin[e + f*x]^p*((a + b*Sin[e + f*x]^2)^(p/(2*f*(p + 1))), x] + Simp[1/(2*(p + 1)) Int[(a + b*Sin[e + f*x]^2)^(p - 1)*Simp[a*B + 2*a*A*(p + 1) + (2*A*b*(p + 1) + B*(b + 2*a*p + 2*b*p))*Sin[e + f*x]^2, x], x], x] /; FreeQ[{a, b, e, f, A, B}, x] && GtQ[p, 0]

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3650.  $\text{Int}[\frac{(A_.) + (B_.)\sin[(e_.) + (f_.)x]}{(a_.) + (b_.)\sin[(e_.) + (f_.)x]}], x\_Symbol] \rightarrow \text{Simp}[B(x/b), x] + \text{Simp}[(A*b - a*B)/b \text{Int}[1/(a + b*\sin[e + f*x]^2), x], x] /; \text{FreeQ}\{a, b, e, f, A, B\}, x]$
3651.  $\text{Int}[\frac{(A_.) + (B_.)\sin[(e_.) + (f_.)x]}{\sqrt{(a_.) + (b_.)\sin[(e_.) + (f_.)x]}}, x\_Symbol] \rightarrow \text{Simp}[B/b \text{Int}[\sqrt{a + b*\sin[e + f*x]^2}, x], x] + \text{Simp}[(A*b - a*B)/b \text{Int}[1/\sqrt{a + b*\sin[e + f*x]^2}, x], x] /; \text{FreeQ}\{a, b, e, f, A, B\}, x]$
3652.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]^{(p_.)} * ((A_.) + (B_.)\sin[(e_.) + (f_.)x]^2), x\_Symbol] \rightarrow \text{Simp}[(-A*b - a*B)*\cos[e + f*x]*\sin[e + f*x] * ((a + b*\sin[e + f*x]^2)^{(p+1}) / (2*a*f*(a + b)*(p+1))), x] - \text{Simp}[1/(2*a*(a + b)*(p+1)) \text{Int}[(a + b*\sin[e + f*x]^2)^{(p+1)} * \text{Simp}[a*B - A*(2*a*(p+1) + b*(2*p+3)) + 2*(A*b - a*B)*(p+2)*\sin[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[a + b, 0]$
3653.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]^{(p_.)} * ((A_.) + (B_.)\sin[(e_.) + (f_.)x]^2), x\_Symbol] \rightarrow \text{With}\{ff = \text{FreeFactors}[\tan[e + f*x], x]\}, \text{Simp}[ff*(a + b*\sin[e + f*x]^2)^p * ((\sec[e + f*x]^2)^p / (f*(a + (a + b)*\tan[e + f*x]^2)^p)) \text{Subst}[\text{Int}[(a + (a + b)*ff^2*x^2)^p * ((A + (A + B)*ff^2*x^2)/(1 + ff^2*x^2)^{(p+2})], x], x, \tan[e + f*x]/ff], x] /; \text{FreeQ}\{a, b, e, f, A, B\}, x] \&\& \text{IntegerQ}[p]$
3654.  $\text{Int}[(u_.) * ((a_.) + (b_.)\sin[(e_.) + (f_.)x]^{(p_.)}), x\_Symbol] \rightarrow \text{Simp}[a^p \text{Int}[\text{ActivateTrig}[u*\cos[e + f*x]^{(2*p)}], x], x] /; \text{FreeQ}\{a, b, e, f, p\}, x] \&\& \text{EqQ}[a + b, 0] \&\& \text{IntegerQ}[p]$
3655.  $\text{Int}[(u_.) * ((a_.) + (b_.)\sin[(e_.) + (f_.)x]^{(p_.)}), x\_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u*(a*\cos[e + f*x]^{(2*p)}], x] /; \text{FreeQ}\{a, b, e, f, p\}, x] \&\& \text{EqQ}[a + b, 0]$
3656.  $\text{Int}[\sqrt{(a_.) + (b_.)\sin[(e_.) + (f_.)x]^2}], x\_Symbol] \rightarrow \text{Simp}[(\text{Sqrt}[a/f]*\text{EllipticE}[e + f*x, -b/a], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{GtQ}[a, 0]$

3657.  $\text{Int}[\text{Sqrt}[(a_) + (b_.)\sin[(e_.) + (f_.)\cdot(x_)]^2], x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[a + b\sin[e + f\cdot x]^2]/\text{Sqrt}[1 + b\cdot(\sin[e + f\cdot x]^2/a)] \text{Int}[\text{Sqrt}[1 + (b\sin[e + f\cdot x]^2)/a], x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& !\text{GtQ}[a, 0]$
3658.  $\text{Int}[((a_) + (b_.)\sin[(e_.) + (f_.)\cdot(x_)]^2)^2, x\_Symbol] \rightarrow \text{Simp}[(8\cdot a^2 + 8\cdot a\cdot b + 3\cdot b^2)\cdot(x/8), x] + (-\text{Simp}[b^2\cdot\text{Cos}[e + f\cdot x]\cdot(\sin[e + f\cdot x]^3/(4\cdot f)), x] - \text{Simp}[b\cdot(8\cdot a + 3\cdot b)\cdot\text{Cos}[e + f\cdot x]\cdot(\sin[e + f\cdot x]/(8\cdot f)), x]) /; \text{FreeQ}[\{a, b, e, f\}, x]$
3659.  $\text{Int}[((a_) + (b_.)\sin[(e_.) + (f_.)\cdot(x_)]^2)^{p_}, x\_Symbol] \rightarrow \text{Simp}[(-b)\cdot\text{Cos}[e + f\cdot x]\cdot\text{Sin}[e + f\cdot x]\cdot((a + b\sin[e + f\cdot x]^2)^{p-1}/(2\cdot f\cdot p)), x] + \text{Simp}[1/(2\cdot p) \text{Int}[(a + b\sin[e + f\cdot x]^2)^{p-2}\cdot\text{Simp}[a\cdot(b + 2\cdot a\cdot p) + b\cdot(2\cdot a + b)\cdot(2\cdot p - 1)\cdot\text{Sin}[e + f\cdot x]^2, x], x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a + b, 0] \&\& \text{GtQ}[p, 1]$
3660.  $\text{Int}[((a_) + (b_.)\sin[(e_.) + (f_.)\cdot(x_)]^2)^{-1}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f\cdot x], x]\}, \text{Simp}[ff/f \text{Subst}[\text{Int}[1/(a + (a + b)\cdot ff^2\cdot x^2), x], x, \text{Tan}[e + f\cdot x]/ff], x]] /; \text{FreeQ}[\{a, b, e, f\}, x]$
3661.  $\text{Int}[1/\text{Sqrt}[(a_) + (b_.)\sin[(e_.) + (f_.)\cdot(x_)]^2], x\_Symbol] \rightarrow \text{Simp}[(1/(\text{Sqrt}[a]\cdot f))\cdot\text{EllipticF}[e + f\cdot x, -b/a], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{GtQ}[a, 0]$
3662.  $\text{Int}[1/\text{Sqrt}[(a_) + (b_.)\sin[(e_.) + (f_.)\cdot(x_)]^2], x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 + b\cdot(\sin[e + f\cdot x]^2/a)]/\text{Sqrt}[a + b\sin[e + f\cdot x]^2] \text{Int}[1/\text{Sqrt}[1 + (b\sin[e + f\cdot x]^2)/a], x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& !\text{GtQ}[a, 0]$
3663.  $\text{Int}[((a_) + (b_.)\sin[(e_.) + (f_.)\cdot(x_)]^2)^{p_}, x\_Symbol] \rightarrow \text{Simp}[(-b)\cdot\text{Cos}[e + f\cdot x]\cdot\text{Sin}[e + f\cdot x]\cdot((a + b\sin[e + f\cdot x]^2)^{p+1}/(2\cdot a\cdot f\cdot (p+1)\cdot(a+b))), x] + \text{Simp}[1/(2\cdot a\cdot (p+1)\cdot(a+b)) \text{Int}[(a + b\sin[e + f\cdot x]^2)^{p+1}\cdot\text{Simp}[2\cdot a\cdot (p+1) + b\cdot(2\cdot p+3) - 2\cdot b\cdot (p+2)\cdot\text{Sin}[e + f\cdot x]^2, x], x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a + b, 0] \&\& \text{LtQ}[p, -1]$

3664.  $\text{Int}[(a + (b \sin(e) + f x)^2)^p, x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Sin}[e + f x], x]\}, \text{Simp}[\text{ff} * (\text{Sqrt}[\text{Cos}[e + f x]^2] / (f \text{Cos}[e + f x])) \text{Subst}[\text{Int}[(a + b \text{ff}^2 x^2)^p / \text{Sqrt}[1 - \text{ff}^2 x^2], x], x, \text{Sin}[e + f x] / \text{ff}], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{!IntegerQ}[p]$
3665.  $\text{Int}[\sin(e) + (f x)^m * ((a + (b \sin(e) + f x)^2)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Cos}[e + f x], x]\}, \text{Simp}[-\text{ff}/f \text{Subst}[\text{Int}[(1 - \text{ff}^2 x^2)^{(m-1)/2} * (a + b - b \text{ff}^2 x^2)^p, x], x, \text{Cos}[e + f x] / \text{ff}], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[(m-1)/2]$
3666.  $\text{Int}[\sin(e) + (f x)^m * ((a + (b \sin(e) + f x)^2)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Tan}[e + f x], x]\}, \text{Simp}[\text{ff}^{m+1}/f \text{Subst}[\text{Int}[x^m * ((a + (a + b) \text{ff}^2 x^2)^p / (1 + \text{ff}^2 x^2)^{(m/2 + p + 1)}), x], x, \text{Tan}[e + f x] / \text{ff}], x]] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[p]$
3667.  $\text{Int}[\sin(e) + (f x)^m * ((a + (b \sin(e) + f x)^2)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Sin}[e + f x], x]\}, \text{Simp}[\text{ff}^{m+1} * (\text{Sqrt}[\text{Cos}[e + f x]^2] / (f \text{Cos}[e + f x])) \text{Subst}[\text{Int}[x^m * ((a + b \text{ff}^2 x^2)^p / \text{Sqrt}[1 - \text{ff}^2 x^2]), x], x, \text{Sin}[e + f x] / \text{ff}], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{!IntegerQ}[p]$
3668.  $\text{Int}[(d \sin(e) + f x)^m * ((a + (b \sin(e) + f x)^2)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Cos}[e + f x], x]\}, \text{Simp}[(-\text{ff}) * d^{2 * \text{IntPart}[(m-1)/2] + 1} * ((d \text{Sin}[e + f x])^{2 * \text{FracPart}[(m-1)/2]} / (f * (\text{Sin}[e + f x]^2)^{\text{FracPart}[(m-1)/2]})) \text{Subst}[\text{Int}[(1 - \text{ff}^2 x^2)^{(m-1)/2} * (a + b - b \text{ff}^2 x^2)^p, x], x, \text{Cos}[e + f x] / \text{ff}], x]] /; \text{FreeQ}[\{a, b, d, e, f, m, p\}, x] \&\& \text{!IntegerQ}[m]$
3669.  $\text{Int}[\cos(e) + (f x)^m * ((a + (b \sin(e) + f x)^2)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Sin}[e + f x], x]\}, \text{Simp}[\text{ff}/f \text{Subst}[\text{Int}[(1 - \text{ff}^2 x^2)^{(m-1)/2} * (a + b \text{ff}^2 x^2)^p, x], x, \text{Sin}[e + f x] / \text{ff}], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[(m-1)/2]$

3670. `Int[cos[(e_.) + (f_.)*(x_)]^(m_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^2)^(p_.), x_Symbol] := With[{ff = FreeFactors[Tan[e + f*x], x]}, Simp[ff/f Subst[Int[(a + (a + b)*ff^2*x^2)^p/(1 + ff^2*x^2)^(m/2 + p + 1)], x], x, Tan[e + f*x]/ff], x]] /; FreeQ[{a, b, e, f}, x] && IntegerQ[m/2] && IntegerQ[p]`
3671. `Int[cos[(e_.) + (f_.)*(x_)]^(m_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^2)^(p_.), x_Symbol] := With[{ff = FreeFactors[Sin[e + f*x], x]}, Simp[ff*(Sqrt[Cos[e + f*x]^2]/(f*Cos[e + f*x])) Subst[Int[(1 - ff^2*x^2)^((m - 1)/2)*(a + b*ff^2*x^2)^p, x], x, Sin[e + f*x]/ff], x]] /; FreeQ[{a, b, e, f, p}, x] && IntegerQ[m/2] && !IntegerQ[p]`
3672. `Int[(cos[(e_.) + (f_.)*(x_)]*(d_.))^(m_)*((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^2)^(p_.), x_Symbol] := With[{ff = FreeFactors[Sin[e + f*x], x]}, Simp[ff*d^(2*IntPart[(m - 1)/2] + 1)*((d*Cos[e + f*x])^(2*FracPart[(m - 1)/2])/(f*(Cos[e + f*x]^2)^FracPart[(m - 1)/2])) Subst[Int[(1 - ff^2*x^2)^((m - 1)/2)*(a + b*ff^2*x^2)^p, x], x, Sin[e + f*x]/ff], x]] /; FreeQ[{a, b, d, e, f, m, p}, x] && !IntegerQ[m]`
3673. `Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^2)^(p_.)*tan[(e_.) + (f_.)*(x_)]^(m_.), x_Symbol] := With[{ff = FreeFactors[Sin[e + f*x]^2, x]}, Simp[ff^((m + 1)/2)/(2*f) Subst[Int[x^((m - 1)/2)*((a + b*ff*x)^p/(1 - ff*x)^((m + 1)/2)), x], x, Sin[e + f*x]^2/ff], x]] /; FreeQ[{a, b, e, f, p}, x] && IntegerQ[(m - 1)/2]`
3674. `Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^2)^(p_.)*((d_.)*tan[(e_.) + (f_.)*(x_)]^(m_)), x_Symbol] := With[{ff = FreeFactors[Tan[e + f*x], x]}, Simp[ff/f Subst[Int[(d*ff*x)^m*((a + (a + b)*ff^2*x^2)^p/(1 + ff^2*x^2)^(p + 1)), x], x, Tan[e + f*x]/ff], x]] /; FreeQ[{a, b, d, e, f, m}, x] && IntegerQ[p]`
3675. `Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^2)^(p_.)*tan[(e_.) + (f_.)*(x_)]^(m_), x_Symbol] := With[{ff = FreeFactors[Sin[e + f*x], x]}, Simp[ff^(m + 1)*(Sqrt[Cos[e + f*x]^2]/(f*Cos[e + f*x])) Subst[Int[x^m*((a + b*ff^2*x^2)^p/(1 - ff^2*x^2)^((m + 1)/2)), x], x, Sin[e + f*x]/ff], x]] /; FreeQ[{a, b, e, f, p}, x] && IntegerQ[m/2] && !IntegerQ[p]`

3676.  $\text{Int}[(a_.) + (b_.)\sin[(e_.) + (f_.)x]^2]^{(p_.)}((d_.)\tan[(e_.) + (f_.)x])^{(m_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\sin[e + fx], x]\}, \text{Simp}[ff(d\tan[e + fx])^{(m+1)}((\cos[e + fx]^2)^{(m+1)/2})/(d*ff\sin[e + fx]^{(m+1)}) \text{Subst}[\text{Int}[(ff*x)^m((a + b*ff^2*x^2)^p/(1 - ff^2*x^2)^{(m+1)/2}), x], x, \sin[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, d, e, f, m, p\}, x] \&\& \text{IntegerQ}[m]$
3677.  $\text{Int}[\cos[(e_.) + (f_.)x]^{(m_.)}((d_.)\sin[(e_.) + (f_.)x])^{(n_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)x]^2)^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{f = \text{FreeFactors}[\sin[e + fx], x]\}, \text{Simp}[ff/f \text{Subst}[\text{Int}[(d*ff*x)^n(1 - ff^2*x^2)^{(m-1)/2}(a + b*ff^2*x^2)^p], x], x, \sin[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, d, e, f, n, p\}, x] \&\& \text{IntegerQ}[(m-1)/2]$
3678.  $\text{Int}[\sin[(e_.) + (f_.)x]^{(n_.)}((c_.)\sin[(e_.) + (f_.)x])^{(m_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)x]^2)^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\cos[e + fx], x]\}, \text{Simp}[-ff/f \text{Subst}[\text{Int}[(c*ff*x)^m(1 - ff^2*x^2)^{(n-1)/2}(a + b - b*ff^2*x^2)^p], x], x, \cos[e + fx]/f], x]] /; \text{FreeQ}[\{a, b, c, e, f, m, p\}, x] \&\& \text{IntegerQ}[(n-1)/2]$
3679.  $\text{Int}[\cos[(e_.) + (f_.)x]^{(m_.)}\sin[(e_.) + (f_.)x]^{(n_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)x]^2)^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\tan[e + fx], x]\}, \text{Simp}[ff^{(n+1)}/f \text{Subst}[\text{Int}[x^n((a + (a + b*ff^2*x^2)^p/(1 + ff^2*x^2)^{(m+n)/2 + p + 1}), x], x, \tan[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[n/2] \&\& \text{IntegerQ}[p]$
3680.  $\text{Int}[\cos[(e_.) + (f_.)x]^{(m_.)}((d_.)\sin[(e_.) + (f_.)x])^{(n_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)x]^2)^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\sin[e + fx], x]\}, \text{Simp}[ff*(\text{Sqrt}[\cos[e + fx]^2])/(f*\cos[e + fx]) \text{Subst}[\text{Int}[(d*ff*x)^n(1 - ff^2*x^2)^{(m-1)/2}(a + b*ff^2*x^2)^p], x], x, \sin[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, d, e, f, n, p\}, x] \&\& \text{IntegerQ}[m/2]$
3681.  $\text{Int}[(\cos[(e_.) + (f_.)x]^{(m_.)}((d_.)\sin[(e_.) + (f_.)x])^{(n_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)x]^2)^{(p_.)}), x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\sin[e + fx], x]\}, \text{Simp}[ff*c^{(2*\text{IntPart}[(m-1)/2] + 1)}((c*\cos[e + fx])^{(2*\text{FracPart}[(m-1)/2])})/(f*(\cos[e + fx]^2))$

- $$\text{^FracPart}[(m - 1)/2]) \text{ Subst}[\text{Int}[(d*ff*x)^n*(1 - ff^2*x^2)^{(m - 1)/2}*(a + b*ff^2*x^2)^p, x], x, \text{Sin}[e + f*x]/ff, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{!IntegerQ}[m]$$
3682.  $\text{Int}[(b_*)*\text{sin}[(e_*) + (f_*)*(x_)]^2)^{(p_*)}, x\_Symbol] \text{ :> } \text{Simp}[(-\text{Cot}[e + f*x])*((b*\text{Sin}[e + f*x]^2)^p/(2*f*p)), x] + \text{Simp}[b*((2*p - 1)/(2*p)) \text{Int}[(b*\text{Sin}[e + f*x]^2)^{(p - 1)}, x], x] /; \text{FreeQ}[\{b, e, f\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{GtQ}[p, 1]$
3683.  $\text{Int}[(b_*)*\text{sin}[(e_*) + (f_*)*(x_)]^2)^{(p_*)}, x\_Symbol] \text{ :> } \text{Simp}[\text{Cot}[e + f*x]*((b*\text{Sin}[e + f*x]^2)^{(p + 1)}/(b*f*(2*p + 1))), x] + \text{Simp}[2*((p + 1)/(b*(2*p + 1))) \text{Int}[(b*\text{Sin}[e + f*x]^2)^{(p + 1)}, x], x] /; \text{FreeQ}[\{b, e, f\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{LtQ}[p, -1]$
3684.  $\text{Int}[(b_*)*\text{sin}[(e_*) + (f_*)*(x_)]^{(n_*)})^{(p_*)}*\text{tan}[(e_*) + (f_*)*(x_)]^{(m_*)}, x\_Symbol] \text{ :> } \text{With}[\{ff = \text{FreeFactors}[\text{Sin}[e + f*x]^2, x]\}, \text{Simp}[ff^{(m + 1)/2}/(2*f) \text{Subst}[\text{Int}[x^{(m - 1)/2}*((b*ff^{(n/2)}*x^{(n/2)})^p/(1 - ff*x)^{(m + 1)/2}), x], x, \text{Sin}[e + f*x]^2/ff, x]] /; \text{FreeQ}[\{b, e, f, p\}, x] \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{IntegerQ}[n/2]$
3685.  $\text{Int}[(b_*)*((c_*)*\text{sin}[(e_*) + (f_*)*(x_)]^{(n_*)})^{(p_*)}*\text{tan}[(e_*) + (f_*)*(x_)]^{(m_*)}, x\_Symbol] \text{ :> } \text{With}[\{ff = \text{FreeFactors}[\text{Sin}[e + f*x], x]\}, \text{Simp}[ff^{(m + 1)}/f \text{Subst}[\text{Int}[x^m*((b*(c*ff*x)^n)^p/(1 - ff^2*x^2)^{(m + 1)/2}), x], x, \text{Sin}[e + f*x]/ff, x]] /; \text{FreeQ}[\{b, c, e, f, n, p\}, x] \&\& \text{ILtQ}[(m - 1)/2, 0]$
3686.  $\text{Int}[(u_*)*((b_*)*\text{sin}[(e_*) + (f_*)*(x_)]^{(n_*)})^{(p_*)}, x\_Symbol] \text{ :> } \text{With}[\{ff = \text{FreeFactors}[\text{Sin}[e + f*x], x]\}, \text{Simp}[(b*ff^n)^{\text{IntPart}[p]}*((b*\text{Sin}[e + f*x]^n)^{\text{FracPart}[p]}/(\text{Sin}[e + f*x]/ff)^{(n*\text{FracPart}[p])})] \text{Int}[\text{ActivateTrig}[u]*(\text{Sin}[e + f*x]/ff)^{(n*p)}, x], x]] /; \text{FreeQ}[\{b, e, f, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{IntegerQ}[n] \&\& (\text{EqQ}[u, 1] \|\| \text{MatchQ}[u, ((d_*)*(\text{trig}_)[e + f*x])^{(m_*)}] /; \text{FreeQ}[\{d, m\}, x] \&\& \text{MemberQ}[\{\text{sin}, \text{cos}, \text{tan}, \text{cot}, \text{sec}, \text{csc}\}, \text{trig}])$
3687.  $\text{Int}[(u_*)*((b_*)*((c_*)*\text{sin}[(e_*) + (f_*)*(x_)]^{(n_*)})^{(p_*)}, x\_Symbol] \text{ :> } \text{Simp}[b^{\text{IntPart}[p]}*((b*(c*\text{Sin}[e + f*x])^n)^{\text{FracPart}[p]}/(c*\text{Sin}[e + f*x])^{(n*\text{FracPart}[p])})] \text{Int}[\text{ActivateTrig}[u]*(c*\text{Sin}[e + f*x])^{(n*p)}, x]$

- ```

, x] /; FreeQ[{b, c, e, f, n, p}, x] && !IntegerQ[p] && !IntegerQ[n]
&& (EqQ[u, 1] || MatchQ[u, ((d_.)*(trig_)[e + f*x])^(m_.) /; FreeQ[{d
, m}, x] && MemberQ[{sin, cos, tan, cot, sec, csc}, trig]])

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3688. `Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^4)^(p_), x_Symbol] := With[
{ff = FreeFactors[Tan[e + f*x], x]}, Simp[ff/f Subst[Int[(a + 2*a*ff
^2*x^2 + (a + b)*ff^4*x^4)^p/(1 + ff^2*x^2)^(2*p + 1), x], x, Tan[e +
f*x]/ff], x]] /; FreeQ[{a, b, e, f}, x] && IntegerQ[p]`
3689. `Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^4)^(p_), x_Symbol] := With[
{ff = FreeFactors[Tan[e + f*x], x]}, Simp[ff*(a + b*Sin[e + f*x]^4)^p*(
(Sec[e + f*x]^2)^(2*p)/(f*(a + 2*a*Tan[e + f*x]^2 + (a + b)*Tan[e + f*
x]^4)^p) Subst[Int[(a + 2*a*ff^2*x^2 + (a + b)*ff^4*x^4)^p/(1 + ff^
2*x^2)^(2*p + 1), x], x, Tan[e + f*x]/ff], x]] /; FreeQ[{a, b, e, f, p
}, x] && IntegerQ[p - 1/2]`
3690. `Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(n_))^(p_), x_Symbol] := Mod
ule[{k}, Simp[2/(a*n) Sum[Int[1/(1 - Sin[e + f*x]^2/((-1)^(4*(k/n))*
Rt[-a/b, n/2])], x], {k, 1, n/2}], x]] /; FreeQ[{a, b, e, f}, x] && In
tegerQ[n/2]`
3691. `Int[((a_) + (b_.)*sin[(e_.) + (f_.)*(x_)]^(n_))^(p_), x_Symbol] := Wit
h[{ff = FreeFactors[Tan[e + f*x], x]}, Simp[ff/f Subst[Int[(b*ff^n*x
^n + a*(1 + ff^2*x^2)^(n/2))^p/(1 + ff^2*x^2)^(n*(p/2) + 1), x], x, Ta
n[e + f*x]/ff], x]] /; FreeQ[{a, b, e, f}, x] && IntegerQ[n/2] && IGtQ
[p, 0]`
3692. `Int[((a_) + (b_.)*((c_.)*sin[(e_.) + (f_.)*(x_)]^(n_))^(p_), x_Symbol
] := Int[ExpandTrig[(a + b*(c*sin[e + f*x])^n)^p, x], x] /; FreeQ[{a,
b, c, e, f, n}, x] && (IGtQ[p, 0] || (EqQ[p, -1] && IntegerQ[n]))`
3693. `Int[((a_) + (b_.)*((c_.)*sin[(e_.) + (f_.)*(x_)]^(n_))^(p_), x_Symbol
] := Unintegrable[(a + b*(c*Sin[e + f*x])^n)^p, x] /; FreeQ[{a, b, c,
e, f, n, p}, x]`

3694. $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)]^4)^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Cos}[e + f*x], x]\}, \text{Simp}[-ff/f \text{ Subst}[\text{Int}[(1 - ff^2*x^2)^{(m-1)/2}*(a + b - 2*b*ff^2*x^2 + b*ff^4*x^4)^p, x], x, \text{Cos}[e + f*x]/ff], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[(m-1)/2]$
3695. $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)]^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Cos}[e + f*x], x]\}, \text{Simp}[-ff/f \text{ Subst}[\text{Int}[(1 - ff^2*x^2)^{(m-1)/2}*(a + b*(1 - ff^2*x^2)^{(n/2}))^p, x], x, \text{Cos}[e + f*x]/ff], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[(m-1)/2] \&\& \text{IntegerQ}[n/2]$
3696. $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)]^4)^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff^{(m+1)}/f \text{ Subst}[\text{Int}[x^m*((a + 2*a*ff^2*x^2 + (a + b)*ff^4*x^4)^p / (1 + ff^2*x^2)^{(m/2 + 2*p + 1)}), x], x, \text{Tan}[e + f*x]/ff], x]] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[p]$
3697. $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)]^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff^{(m+1)}/f \text{ Subst}[\text{Int}[x^m*((a*(1 + ff^2*x^2)^{(n/2)} + b*ff^n*x^n)^p / (1 + ff^2*x^2)^{(m/2 + n*(p/2) + 1)}), x], x, \text{Tan}[e + f*x]/ff], x]] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[n/2] \&\& \text{IntegerQ}[p]$
3698. $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)]^4)^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff^{(m+1)}*(a + b*\text{Sin}[e + f*x]^4)^p*((\text{Sec}[e + f*x]^2)^{(2*p)})/(f*\text{Apart}[a*(1 + \text{Tan}[e + f*x]^2)^2 + b*\text{Tan}[e + f*x]^4]^p) \text{ Subst}[\text{Int}[x^m*(\text{ExpandToSum}[a*(1 + ff^2*x^2)^2 + b*ff^4*x^4, x]^p / (1 + ff^2*x^2)^{(m/2 + 2*p + 1)}), x], x, \text{Tan}[e + f*x]/ff], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[p - 1/2]$
3699. $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(e_.) + (f_.)(x_.)]^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[\sin[e + f*x]^m*(a + b*\sin[e + f*x]^n)^p, x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegersQ}[m, p] \&\& (\text{EqQ}[n, 4] \parallel \text{GtQ}[p, 0] \parallel (\text{EqQ}[p, -1] \&\& \text{IntegerQ}[n]))$

3700. $\text{Int}[(d \cdot \sin(e) + f \cdot x)^m \cdot (a + b \cdot (c \cdot \sin(e) + f \cdot x))^n]^p, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrig}[(d \cdot \sin(e + f \cdot x))^m \cdot (a + b \cdot (c \cdot \sin(e + f \cdot x))^n)]^p, x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \ \&\& \ \text{IGtQ}[p, 0]$
3701. $\text{Int}[(d \cdot \sin(e) + f \cdot x)^m \cdot (a + b \cdot (c \cdot \sin(e) + f \cdot x))^n]^p, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d \cdot \text{Sin}[e + f \cdot x])^m \cdot (a + b \cdot (c \cdot \text{Sin}[e + f \cdot x])^n)]^p, x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x\}$
3702. $\text{Int}[\cos(e) + f \cdot x]^m \cdot (a + b \cdot (c \cdot \sin(e) + f \cdot x))^n]^p, x_{\text{Symbol}}] \rightarrow \text{With}\{\text{ff} = \text{FreeFactors}[\text{Sin}[e + f \cdot x], x]\}, \text{Simp}[\text{ff}/f \ \text{Subst}[\text{Int}[(1 - \text{ff}^2 \cdot x^2)^{(m-1)/2} \cdot (a + b \cdot (c \cdot \text{ff} \cdot x)^n)]^p, x], x, \text{Sin}[e + f \cdot x]/\text{ff}], x] /;$ $\text{FreeQ}\{a, b, c, e, f, n, p\}, x\} \ \&\& \ \text{IntegerQ}[(m-1)/2] \ \&\& \ (\text{EqQ}[n, 4] \ || \ \text{GtQ}[m, 0] \ || \ \text{IGtQ}[p, 0] \ || \ \text{IntegersQ}[m, p])$
3703. $\text{Int}[\cos(e) + f \cdot x]^m \cdot (a + b \cdot \sin(e) + f \cdot x)^4]^p, x_{\text{Symbol}}] \rightarrow \text{With}\{\text{ff} = \text{FreeFactors}[\text{Tan}[e + f \cdot x], x]\}, \text{Simp}[\text{ff}/f \ \text{Subst}[\text{Int}[(a + 2 \cdot a \cdot \text{ff}^2 \cdot x^2 + (a + b) \cdot \text{ff}^4 \cdot x^4)]^p / (1 + \text{ff}^2 \cdot x^2)^{(m/2 + 2 \cdot p + 1)}, x], x, \text{Tan}[e + f \cdot x]/\text{ff}], x] /;$ $\text{FreeQ}\{a, b, e, f\}, x\} \ \&\& \ \text{IntegerQ}[m/2] \ \&\& \ \text{IntegerQ}[p]$
3704. $\text{Int}[\cos(e) + f \cdot x]^m \cdot (a + b \cdot \sin(e) + f \cdot x)^n]^p, x_{\text{Symbol}}] \rightarrow \text{With}\{\text{ff} = \text{FreeFactors}[\text{Tan}[e + f \cdot x], x]\}, \text{Simp}[\text{ff}/f \ \text{Subst}[\text{Int}[(b \cdot \text{ff}^n \cdot x^n + a \cdot (1 + \text{ff}^2 \cdot x^2)^{(n/2)}]^p / (1 + \text{ff}^2 \cdot x^2)^{(m/2 + n \cdot (p/2) + 1)}, x], x, \text{Tan}[e + f \cdot x]/\text{ff}], x] /;$ $\text{FreeQ}\{a, b, e, f\}, x\} \ \&\& \ \text{IntegerQ}[m/2] \ \&\& \ \text{IntegerQ}[n/2] \ \&\& \ \text{IntegerQ}[p]$
3705. $\text{Int}[\cos(e) + f \cdot x]^m / (a + b \cdot \sin(e) + f \cdot x)^n, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{Expand}[(1 - \text{Sin}[e + f \cdot x]^2)^{(m/2)} / (a + b \cdot \text{Sin}[e + f \cdot x]^n)], x] /;$ $\text{FreeQ}\{a, b, e, f\}, x\} \ \&\& \ \text{IGtQ}[m/2, 0] \ \&\& \ \text{IntegerQ}[(n-1)/2]$

3706. $\text{Int}[(\cos[e_.] + (f_.)x](d_.)^{m_.})((a_.) + (b_.)((c_.)\sin[e_.] + (f_.)x))^{n_.}]^{p_.}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(d\cos[e + fx])^m(a + b(c\sin[e + fx])^n)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \ \&\& \text{IGtQ}[p, 0]$
3707. $\text{Int}[(\cos[e_.] + (f_.)x](d_.)^{m_.})((a_.) + (b_.)((c_.)\sin[e_.] + (f_.)x))^{n_.}]^{p_.}, x_Symbol] \rightarrow \text{Unintegrable}[(d\cos[e + fx])^m(a + b(c\sin[e + fx])^n)^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x]$
3708. $\text{Int}(((a_.) + (b_.)\sin[e_.] + (f_.)x)^{n_.})^{p_.}\tan[e_.] + (f_.)x^{m_.}, x_Symbol] \rightarrow \text{With}\{\text{ff} = \text{FreeFactors}[\sin[e + fx]^2, x]\}, \text{Simp}[\text{ff}^{(m+1)/2}/(2f) \text{Subst}[\text{Int}[x^{(m-1)/2}((a + b\text{ff}^{n/2})x^{n/2})^p/(1 - \text{ff}x)^{(m+1)/2}), x], x, \sin[e + fx]^2/\text{ff}], x] /; \text{FreeQ}\{a, b, e, f, p\}, x] \ \&\& \text{IntegerQ}[(m-1)/2] \ \&\& \text{IntegerQ}[n/2]$
3709. $\text{Int}(((a_.) + (b_.)((c_.)\sin[e_.] + (f_.)x))^{n_.})^{p_.}\tan[e_.] + (f_.)x^{m_.}, x_Symbol] \rightarrow \text{With}\{\text{ff} = \text{FreeFactors}[\sin[e + fx], x]\}, \text{Simp}[\text{ff}^{m+1}/f \text{Subst}[\text{Int}[x^m((a + b(c\text{ff}x)^n)^p/(1 - \text{ff}^2x^2)^{(m+1)/2}), x], x, \sin[e + fx]/\text{ff}], x] /; \text{FreeQ}\{a, b, c, e, f, n, p\}, x] \ \&\& \text{ILtQ}[(m-1)/2, 0]$
3710. $\text{Int}(((a_.) + (b_.)\sin[e_.] + (f_.)x)^4)^{p_.}((d_.)\tan[e_.] + (f_.)x)^{m_.}, x_Symbol] \rightarrow \text{With}\{\text{ff} = \text{FreeFactors}[\tan[e + fx], x]\}, \text{Simp}[\text{ff}/f \text{Subst}[\text{Int}[(d\text{ff}x)^m(\text{ExpandToSum}[a(1 + \text{ff}^2x^2)^2 + b\text{ff}^4x^4, x]^p/(1 + \text{ff}^2x^2)^{(2p+1)}), x], x, \tan[e + fx]/\text{ff}], x] /; \text{FreeQ}\{a, b, d, e, f, m\}, x] \ \&\& \text{IntegerQ}[p]$
3711. $\text{Int}(((a_.) + (b_.)\sin[e_.] + (f_.)x)^4)^{p_.}((d_.)\tan[e_.] + (f_.)x)^{m_.}, x_Symbol] \rightarrow \text{With}\{\text{ff} = \text{FreeFactors}[\tan[e + fx], x]\}, \text{Simp}[\text{ff}(a + b\sin[e + fx]^4)^p((\text{Sec}[e + fx]^2)^{(2p)})/(f\text{Apart}[a(1 + \tan[e + fx]^2)^2 + b\tan[e + fx]^4]^p)) \text{Subst}[\text{Int}[(d\text{ff}x)^m(\text{ExpandToSum}[a(1 + \text{ff}^2x^2)^2 + b\text{ff}^4x^4, x]^p/(1 + \text{ff}^2x^2)^{(2p+1)}), x], x, \tan[e + fx]/\text{ff}], x] /; \text{FreeQ}\{a, b, d, e, f, m\}, x] \ \&\& \text{IntegerQ}[p - 1/2]$

3712. $\text{Int}[(a_+ + (b_+)\sin[(e_+) + (f_+)(x_+)]^{(n_+)})^{(p_+)}\cdot((d_+)\tan[(e_+) + (f_+)(x_+)]^{(m_+)}, x_Symbol] \rightarrow \text{With}\{\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff^{(m+1)}/f \text{ Subst}[\text{Int}[(d*x)^m\cdot((b*ff^n*x^n + a*(1 + ff^2*x^2)^{(n/2}))^p/(1 + ff^2*x^2)^{(n*(p/2) + 1)}), x], x, \text{Tan}[e + f*x]/ff], x] \text{ /; FreeQ}\{a, b, d, e, f, m\}, x\} \&\& \text{IntegerQ}[n/2] \&\& \text{IGtQ}[p, 0]$
3713. $\text{Int}[(a_+ + (b_+)((c_+)\sin[(e_+) + (f_+)(x_+)]^{(n_+)})^{(p_+)}\cdot((d_+)\tan[(e_+) + (f_+)(x_+)]^{(m_+)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(d*\tan[e + f*x])^m\cdot(a + b*(c*\sin[e + f*x])^n)^p], x], x] \text{ /; FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& \text{IGtQ}[p, 0]$
3714. $\text{Int}[(a_+ + (b_+)((c_+)\sin[(e_+) + (f_+)(x_+)]^{(n_+)})^{(p_+)}\cdot((d_+)\tan[(e_+) + (f_+)(x_+)]^{(m_+)}, x_Symbol] \rightarrow \text{Unintegrable}[(a + b*(c*\sin[e + f*x])^n)^p\cdot(d*\tan[e + f*x])^m], x] \text{ /; FreeQ}\{a, b, c, d, e, f, m, n, p\}, x\}$
3715. $\text{Int}[(\cot[(e_+) + (f_+)(x_+)]\cdot(d_+))^{(m_+)}\cdot((a_+ + (b_+)((c_+)\sin[(e_+) + (f_+)(x_+)]^{(n_+)})^{(p_+)}, x_Symbol] \rightarrow \text{Simp}[(d*\cot[e + f*x])^{\text{FracPart}[m]}\cdot(\tan[e + f*x]/d)^{\text{FracPart}[m]} \text{ Int}[(a + b*(c*\sin[e + f*x])^n)^p/(\tan[e + f*x]/d)^m], x], x] \text{ /; FreeQ}\{a, b, c, d, e, f, m, n, p\}, x\} \&\& \text{IntegerQ}[m]$
3716. $\text{Int}[(d_+)\sec[(e_+) + (f_+)(x_+)]^{(m_+)}\cdot((a_+ + (b_+)((c_+)\sin[(e_+) + (f_+)(x_+)]^{(n_+)})^{(p_+)}, x_Symbol] \rightarrow \text{Simp}[(d*\sec[e + f*x])^{\text{FracPart}[m]}\cdot(\cos[e + f*x]/d)^{\text{FracPart}[m]} \text{ Int}[(a + b*(c*\sin[e + f*x])^n)^p/(\cos[e + f*x]/d)^m], x], x] \text{ /; FreeQ}\{a, b, c, d, e, f, m, n, p\}, x\} \&\& \text{IntegerQ}[m]$
3717. $\text{Int}[(\csc[(e_+) + (f_+)(x_+)]\cdot(d_+))^{(m_+)}\cdot((a_+ + (b_+)\sin[(e_+) + (f_+)(x_+)]^{(n_+)})^{(p_+)}, x_Symbol] \rightarrow \text{Simp}[d^{(n*p)} \text{ Int}[(d*\csc[e + f*x])^{(m - n*p)}\cdot(b + a*\csc[e + f*x]^n)^p], x], x] \text{ /; FreeQ}\{a, b, d, e, f, m, n, p\}, x\} \&\& \text{IntegerQ}[m] \&\& \text{IntegersQ}[n, p]$
3718. $\text{Int}[(\csc[(e_+) + (f_+)(x_+)]\cdot(d_+))^{(m_+)}\cdot((a_+ + (b_+)((c_+)\sin[(e_+) + (f_+)(x_+)]^{(n_+)})^{(p_+)}, x_Symbol] \rightarrow \text{Simp}[(d*\csc[e + f*x])^{\text{FracPart}[m]}\cdot(\sin[e + f*x]/d)^{\text{FracPart}[m]} \text{ Int}[(a + b*(c*\sin[e + f*x])^n)^p/(\sin[e + f*x]/d)^m], x], x] \text{ /; FreeQ}\{a, b, c, d, e, f, m, n, p\}, x\} \&\&$

!IntegerQ[m]

3719. $\text{Int}[(a + (b \cos(e) + f x) d + c \sin(e) + f x)^2]^p, x_Symbol] \rightarrow \text{Int}[(a + b \sqrt{c^2 + d^2} \sin(\text{ArcTan}[c, d] + e + f x))^2]^p, x] /;$ FreeQ[{a, b, c, d, e, f}, x] && EqQ[p^2, 1/4] && GtQ[a, 0]
3720. $\text{Int}[(a + (b \cos(e) + f x) d + c \sin(e) + f x)^2]^p, x_Symbol] \rightarrow \text{Simp}[(a + b(c \sin[e + f x] + d \cos[e + f x])^2)^p / (1 + (b(c \sin[e + f x] + d \cos[e + f x])^2) / a)^p \text{Int}[(1 + (b(c \sin[e + f x] + d \cos[e + f x])^2) / a)^p, x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && EqQ[p^2, 1/4] && !GtQ[a, 0]
3721. $\text{Int}[\sin(d + e x)^m (\cos(d + e x))^p (b + a + c \sin(d + e x))^q]^n, x_Symbol] \rightarrow \text{Module}[\{f = \text{FreeFactors}[\text{Cot}[d + e x], x]\}, \text{Simp}[-f/e \text{Subst}[\text{Int}[\text{ExpandToSum}[c + b(1 + f^2 x^2)^{q/2 - p/2} + a(1 + f^2 x^2)^{q/2}], x]^n / (1 + f^2 x^2)^{m/2 + n(q/2) + 1}, x], x, \text{Cot}[d + e x] / f, x]] /;$ FreeQ[{a, b, c, d, e}, x] && IntegerQ[m/2] && IntegerQ[p/2] && IntegerQ[q/2] && IntegerQ[n] && GtQ[p, 0] && LeQ[p, q]
3722. $\text{Int}[\cos(d + e x)^m (\cos(d + e x))^q (c + a + b \sin(d + e x))^p]^n, x_Symbol] \rightarrow \text{Module}[\{f = \text{FreeFactors}[\text{Tan}[d + e x], x]\}, \text{Simp}[f/e \text{Subst}[\text{Int}[\text{ExpandToSum}[c + b(1 + f^2 x^2)^{q/2 - p/2} + a(1 + f^2 x^2)^{q/2}], x]^n / (1 + f^2 x^2)^{m/2 + n(q/2) + 1}, x], x, \text{Tan}[d + e x] / f, x]] /;$ FreeQ[{a, b, c, d, e}, x] && IntegerQ[m/2] && IntegerQ[p/2] && IntegerQ[q/2] && IntegerQ[n] && GtQ[p, 0] && LeQ[p, q]
3723. $\text{Int}[\sin(d + e x)^m (\cos(d + e x))^p (b + a + c \sin(d + e x))^q]^n, x_Symbol] \rightarrow \text{Module}[\{f = \text{FreeFactors}[\text{Cot}[d + e x], x]\}, \text{Simp}[-f/e \text{Subst}[\text{Int}[\text{ExpandToSum}[a(1 + f^2 x^2)^{p/2} + b f^p x^p + c(1 + f^2 x^2)^{p/2 - q/2}], x]^n / (1 + f^2 x^2)^{m/2 + n(p/2) + 1}, x], x, \text{Cot}[d + e x] / f, x]] /;$ FreeQ[{a, b, c, d, e}, x] && IntegerQ[m/2] && IntegerQ[p/2] && IntegerQ[q/2] && IntegerQ[n] && LtQ[0, q, p]

3724. $\text{Int}[\cos[(d_.) + (e_.)(x_.)]^{(m_.)} * (\cos[(d_.) + (e_.)(x_.)]^{(q_.)} * (c_.) + (a_.) + (b_.) * \sin[(d_.) + (e_.)(x_.)]^{(p_.)})^{(n_.)}, x_Symbol] \rightarrow \text{Module}[\{f = \text{FreeFactors}[\text{Tan}[d + e*x], x]\}, \text{Simp}[f/e \text{ Subst}[\text{Int}[\text{ExpandToSum}[a * (1 + f^2*x^2)^{(p/2)} + b*f^p*x^p + c*(1 + f^2*x^2)^{(p/2 - q/2)}, x]^{n/(1 + f^2*x^2)^{(m/2 + n*(p/2) + 1)}, x], x, \text{Tan}[d + e*x]/f], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[p/2] \&\& \text{IntegerQ}[q/2] \&\& \text{IntegerQ}[n] \&\& \text{LtQ}[0, q, p]$
3725. $\text{Int}[((a_.) + (b_.) * \sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.) * \sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p*c^p) \text{ Int}[(b + 2*c * \text{Sin}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
3726. $\text{Int}[((a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)} * (b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)} * (c_.))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p*c^p) \text{ Int}[(b + 2*c * \text{Cos}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
3727. $\text{Int}[((a_.) + (b_.) * \sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.) * \sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b * \text{Sin}[d + e*x]^n + c * \text{Sin}[d + e*x]^{(2*n)})^p / (b + 2*c * \text{Sin}[d + e*x]^n)^{(2*p)} \text{ Int}[u * (b + 2*c * \text{Sin}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
3728. $\text{Int}[((a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)} * (b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)} * (c_.))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b * \text{Cos}[d + e*x]^n + c * \text{Cos}[d + e*x]^{(2*n)})^p / (b + 2*c * \text{Cos}[d + e*x]^n)^{(2*p)} \text{ Int}[u * (b + 2*c * \text{Cos}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
3729. $\text{Int}[((a_.) + (b_.) * \sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.) * \sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(-1)}, x_Symbol] \rightarrow \text{Module}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*(c/q) \text{ Int}[1/(b - q + 2*c * \text{Sin}[d + e*x]^n), x], x] - \text{Simp}[2*(c/q) \text{ Int}[1/(b + q + 2*c * \text{Sin}[d + e*x]^n), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$

3730. $\text{Int}[(a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.)]^{(-1)}, x_Symbol] \rightarrow \text{Module}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*(c/q) \text{Int}[1/(b - q + 2*c*\text{Cos}[d + e*x]^n), x], x] - \text{Simp}[2*(c/q) \text{Int}[1/(b + q + 2*c*\text{Cos}[d + e*x]^n), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
3731. $\text{Int}[\sin[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)*\sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)*\sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p*c^p) \text{Int}[\text{Sin}[d + e*x]^m*(b + 2*c*\text{Sin}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
3732. $\text{Int}[\cos[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p*c^p) \text{Int}[\text{Cos}[d + e*x]^m*(b + 2*c*\text{Cos}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
3733. $\text{Int}[\sin[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)*\sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)*\sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*\text{Sin}[d + e*x]^n + c*\text{Sin}[d + e*x]^{(2*n)})^p/(b + 2*c*\text{Sin}[d + e*x]^n)^{(2*p)} \text{Int}[\text{Sin}[d + e*x]^m*(b + 2*c*\text{Sin}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
3734. $\text{Int}[\cos[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*\text{Cos}[d + e*x]^n + c*\text{Cos}[d + e*x]^{(2*n)})^p/(b + 2*c*\text{Cos}[d + e*x]^n)^{(2*p)} \text{Int}[\text{Cos}[d + e*x]^m*(b + 2*c*\text{Cos}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
3735. $\text{Int}[\sin[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)*\sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)*\sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Module}[\{f = \text{FreeFactors}[\text{Cot}[d + e*x], x]\}, \text{Simp}[-f/e \text{Subst}[\text{Int}[\text{ExpandToSum}[c + b*(1 + x^2)^{(n/2)} + a*(1 + x^2)^n, x]^p/(1 + f^2*x^2)^{(m/2 + n*p + 1)}, x], x, \text{Cot}[d + e*x]/f], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}$

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[n2, 2*n] && IntegerQ[m/2] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[n/2] &&
IntegerQ[p]

3736. Int[cos[(d_.) + (e_.)*(x_.)]^(m_.)*((a_.) + cos[(d_.) + (e_.)*(x_.)]^(n_.)
)*(b_.) + cos[(d_.) + (e_.)*(x_.)]^(n2_.)*(c_.))^(p_.), x_Symbol] := Modu
le[{f = FreeFactors[Tan[d + e*x], x]}, Simp[f/e Subst[Int[ExpandToSu
m[c + b*(1 + x^2)^(n/2) + a*(1 + x^2)^n, x]^p/(1 + f^2*x^2)^(m/2 + n*p
+ 1), x], x, Tan[d + e*x]/f], x]] /; FreeQ[{a, b, c, d, e}, x] && EqQ
[n2, 2*n] && IntegerQ[m/2] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[n/2] &&
IntegerQ[p]

3737. Int[sin[(d_.) + (e_.)*(x_.)]^(m_.)*((a_.) + (b_.)*sin[(d_.) + (e_.)*(x_.)
])^(n_.) + (c_.)*sin[(d_.) + (e_.)*(x_.)]^(n2_.))^(p_.), x_Symbol] := In
t[ExpandTrig[sin[d + e*x]^m*(a + b*sin[d + e*x]^n + c*sin[d + e*x]^(2*
n))^p, x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && NeQ[b^2
- 4*a*c, 0] && IntegersQ[m, n, p]

3738. Int[cos[(d_.) + (e_.)*(x_.)]^(m_.)*((a_.) + cos[(d_.) + (e_.)*(x_.)]^(n_.)
)*(b_.) + cos[(d_.) + (e_.)*(x_.)]^(n2_.)*(c_.))^(p_.), x_Symbol] := In
t[ExpandTrig[cos[d + e*x]^m*(a + b*cos[d + e*x]^n + c*cos[d + e*x]^(2*
n))^p, x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && NeQ[b^2
- 4*a*c, 0] && IntegersQ[m, n, p]

3739. Int[cos[(d_.) + (e_.)*(x_.)]^(m_.)*((a_.) + (b_.)*((f_.)*sin[(d_.) + (e
.)*(x.)]^(n_.) + (c_.)*((f_.)*sin[(d_.) + (e_.)*(x_.)]^(n2_.))^(p_.)
), x_Symbol] := Module[{g = FreeFactors[Sin[d + e*x], x]}, Simp[g/e S
ubst[Int[(1 - g^2*x^2)^((m - 1)/2)*(a + b*(f*g*x)^n + c*(f*g*x)^(2*n))
^p, x], x, Sin[d + e*x]/g], x]] /; FreeQ[{a, b, c, d, e, f, n, p}, x]
&& EqQ[n2, 2*n] && IntegerQ[(m - 1)/2]

3740. Int[((a_.) + (b_.)*(cos[(d_.) + (e_.)*(x_.)]*(f_.))^(n_.) + (c_.)*(cos[
(d_.) + (e_.)*(x_.)]*(f_.))^(n2_.))^(p_.)*sin[(d_.) + (e_.)*(x_.)]^(m_.)
), x_Symbol] := Module[{g = FreeFactors[Cos[d + e*x], x]}, Simp[-g/e
Subst[Int[(1 - g^2*x^2)^((m - 1)/2)*(a + b*(f*g*x)^n + c*(f*g*x)^(2*n))
^p, x], x, Cos[d + e*x]/g], x]] /; FreeQ[{a, b, c, d, e, f, n, p}, x]
&& EqQ[n2, 2*n] && IntegerQ[(m - 1)/2]

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3741.  $\text{Int}[\cos[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)\sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/(4^p c^p) \text{Int}[\text{Cos}[d + e*x]^{m*(b + 2*c*\text{Sin}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& !\text{IntegerQ}[(m - 1)/2] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
3742.  $\text{Int}[((a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.))^{(p_.)}\sin[(d_.) + (e_.)(x_.)]^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/(4^p c^p) \text{Int}[\text{Sin}[d + e*x]^{m*(b + 2*c*\text{Cos}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& !\text{IntegerQ}[(m - 1)/2] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
3743.  $\text{Int}[\cos[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)\sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(a + b*\text{Sin}[d + e*x]^n + c*\text{Sin}[d + e*x]^{(2*n)})^p / (b + 2*c*\text{Sin}[d + e*x]^n)^{(2*p)} \text{Int}[\text{Cos}[d + e*x]^{m*(b + 2*c*\text{Sin}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& !\text{IntegerQ}[(m - 1)/2] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
3744.  $\text{Int}[((a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.))^{(p_.)}\sin[(d_.) + (e_.)(x_.)]^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(a + b*\text{Cos}[d + e*x]^n + c*\text{Cos}[d + e*x]^{(2*n)})^p / (b + 2*c*\text{Cos}[d + e*x]^n)^{(2*p)} \text{Int}[\text{Sin}[d + e*x]^{m*(b + 2*c*\text{Cos}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& !\text{IntegerQ}[(m - 1)/2] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
3745.  $\text{Int}[\cos[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)\sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)\sin[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Module}\{f = \text{FreeFactors}[\text{Cot}[d + e*x], x]\}, \text{Simp}[-f^{(m + 1)}/e \text{Subst}[\text{Int}[x^m * (\text{ExpandToSum}[c + b*(1 + x^2)^{(n/2)} + a*(1 + x^2)^n, x]^p / (1 + f^2*x^2)^{(m/2 + n*p + 1)}], x], x, \text{Cot}[d + e*x]/f], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IntegerQ}[m/2] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[n/2] \&\& \text{IntegerQ}[p]$
3746.  $\text{Int}[((a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.))^{(p_.)}\sin[(d_.) + (e_.)(x_.)]^{(m_.)}, x\_Symbol] \rightarrow \text{Module}\{f = \text{FreeFactors}[\text{Tan}[d + e*x], x]\}, \text{Simp}[f^{(m + 1)}/e \text{Subst}[\text{Int}[x$



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^m*(ExpandToSum[c + b*(1 + x^2)^(n/2) + a*(1 + x^2)^n, x]^p/(1 + f^2*x
^2)^(m/2 + n*p + 1)), x], x, Tan[d + e*x]/f], x]] /; FreeQ[{a, b, c, d
, e}, x] && EqQ[n2, 2*n] && IntegerQ[m/2] && NeQ[b^2 - 4*a*c, 0] && In
tegerQ[n/2] && IntegerQ[p]

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3747. `Int[cos[(d_.) + (e_.)*(x_)]^(m_.)*((a_.) + (b_.)*sin[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*sin[(d_.) + (e_.)*(x_)]^(n2_.))^(p_.), x_Symbol] := Int[ExpandTrig[(1 - sin[d + e*x]^2)^(m/2)*(a + b*sin[d + e*x]^n + c*sin[d + e*x]^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[m/2] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[n, p]`
3748. `Int[((a_.) + cos[(d_.) + (e_.)*(x_)]^(n_.)*(b_.) + cos[(d_.) + (e_.)*(x_)]^(n2_.)*(c_.))^(p_.)*sin[(d_.) + (e_.)*(x_)]^(m_.), x_Symbol] := Int[ExpandTrig[(1 - cos[d + e*x]^2)^(m/2)*(a + b*cos[d + e*x]^n + c*cos[d + e*x]^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[m/2] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[n, p]`
3749. `Int[((a_) + (c_.)*((f_.)*sin[(d_.) + (e_.)*(x_)]^(n2_.) + (b_.)*((f_.)*sin[(d_.) + (e_.)*(x_)]^(n_)))^(p_.)*tan[(d_.) + (e_.)*(x_)]^(m_.), x_Symbol] := Module[{g = FreeFactors[Sin[d + e*x], x]}, Simp[g^(m + 1)/e Subst[Int[x^m*((a + b*(f*g*x)^n + c*(f*g*x)^(2*n))^p/(1 - g^2*x^2)^((m + 1)/2)), x], x, Sin[d + e*x]/g], x]] /; FreeQ[{a, b, c, d, e, f, n}, x] && IntegerQ[(m - 1)/2] && IntegerQ[2*p]`
3750. `Int[cot[(d_.) + (e_.)*(x_)]^(m_.)*((c_.)*(cos[(d_.) + (e_.)*(x_)]*(f_.))^(n2_.) + (b_.)*(cos[(d_.) + (e_.)*(x_)]*(f_.))^(n_) + (a_.))^(p_.), x_Symbol] := Module[{g = FreeFactors[Cos[d + e*x], x]}, Simp[-g^(m + 1)/e Subst[Int[x^m*((a + b*(f*g*x)^n + c*(f*g*x)^(2*n))^p/(1 - g^2*x^2)^((m + 1)/2)), x], x, Cos[d + e*x]/g], x]] /; FreeQ[{a, b, c, d, e, f, n}, x] && IntegerQ[(m - 1)/2] && IntegerQ[2*p]`
3751. `Int[((a_.) + (b_.)*sin[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*sin[(d_.) + (e_.)*(x_)]^(n2_.))^(p_.)*tan[(d_.) + (e_.)*(x_)]^(m_), x_Symbol] := Simp[1/(4^p*c^p) Int[Tan[d + e*x]^m*(b + 2*c*Ssin[d + e*x]^n)^(2*p), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && EqQ[b^2 - 4*a*c, 0] && IntegerQ[p]`

3752. `Int[cot[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + cos[(d_.) + (e_.)*(x_)]^(n_.) * (b_.) + cos[(d_.) + (e_.)*(x_)]^(n2_.)*(c_.))^(p_.), x_Symbol] := Simp[1/(4^p*c^p) Int[Cot[d + e*x]^m*(b + 2*c*cos[d + e*x]^n)^(2*p), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && EqQ[b^2 - 4*a*c, 0] && IntegerQ[p]`
3753. `Int[((a_.) + (b_.)*sin[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*sin[(d_.) + (e_.)*(x_)]^(n2_.))^(p_)*tan[(d_.) + (e_.)*(x_)]^(m_), x_Symbol] := Simp[(a + b*sin[d + e*x]^n + c*sin[d + e*x]^(2*n))^p/(b + 2*c*sin[d + e*x]^n)^(2*p) Int[Tan[d + e*x]^m*(b + 2*c*sin[d + e*x]^n)^(2*p), x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && EqQ[b^2 - 4*a*c, 0] && !IntegerQ[p]`
3754. `Int[cot[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + cos[(d_.) + (e_.)*(x_)]^(n_.) * (b_.) + cos[(d_.) + (e_.)*(x_)]^(n2_.)*(c_.))^(p_), x_Symbol] := Simp[(a + b*cos[d + e*x]^n + c*cos[d + e*x]^(2*n))^p/(b + 2*c*cos[d + e*x]^n)^(2*p) Int[Cot[d + e*x]^m*(b + 2*c*cos[d + e*x]^n)^(2*p), x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && EqQ[b^2 - 4*a*c, 0] && !IntegerQ[p]`
3755. `Int[((a_.) + (b_.)*sin[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*sin[(d_.) + (e_.)*(x_)]^(n2_.))^(p_)*tan[(d_.) + (e_.)*(x_)]^(m_), x_Symbol] := Module[{f = FreeFactors[Tan[d + e*x], x]}, Simp[f^(m + 1)/e Subst[Int[x^m*(ExpandToSum[c*x^(2*n) + b*x^n*(1 + x^2)^(n/2) + a*(1 + x^2)^n, x]^p/(1 + f^2*x^2)^(n*p + 1)), x], x, Tan[d + e*x]/f], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[n/2] && IntegerQ[p]`
3756. `Int[cot[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + cos[(d_.) + (e_.)*(x_)]^(n_.) * (b_.) + cos[(d_.) + (e_.)*(x_)]^(n2_.)*(c_.))^(p_.), x_Symbol] := Module[{f = FreeFactors[Cot[d + e*x], x]}, Simp[-f^(m + 1)/e Subst[Int[x^m*(ExpandToSum[c*x^(2*n) + b*x^n*(1 + x^2)^(n/2) + a*(1 + x^2)^n, x]^p/(1 + f^2*x^2)^(n*p + 1)), x], x, Cot[d + e*x]/f], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[n/2] && IntegerQ[p]`

3757. $\text{Int}[(a_.) + (b_.)\sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)\sin[(d_.) + (e_.)(x_.)]^{(n2_.)}]^{(p_.)}\tan[(d_.) + (e_.)(x_.)]^{(m_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[\sin[d + e*x]^{m*((a + b*\sin[d + e*x]^n + c*\sin[d + e*x]^{(2*n)})^p/(1 - \sin[d + e*x]^2)^{(m/2}))}], x, x] /; \text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{IntegerQ}[m/2] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IntegersQ}[n, p]$
3758. $\text{Int}[\cot[(d_.) + (e_.)(x_.)]^{(m_.)}*((a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}*(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}*(c_.))]^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[\cos[d + e*x]^{m*((a + b*\cos[d + e*x]^n + c*\cos[d + e*x]^{(2*n)})^p/(1 - \cos[d + e*x]^2)^{(m/2}))}], x, x] /; \text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{IntegerQ}[m/2] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IntegersQ}[n, p]$
3759. $\text{Int}[\cot[(d_.) + (e_.)(x_.)]^{(m_.)}*((a_.) + (c_.)*((f_.)\sin[(d_.) + (e_.)(x_.)]^{(n2_.)} + (b_.)*((f_.)\sin[(d_.) + (e_.)(x_.)]^{(n_.)}))]^{(p_.)}, x_Symbol] \rightarrow \text{Module}\{g = \text{FreeFactors}[\text{Sin}[d + e*x], x]\}, \text{Simp}[g^{(m+1)}/e \ \text{Subst}[\text{Int}[(1 - g^2*x^2)^{(m-1)/2}*((a + b*(f*g*x)^n + c*(f*g*x)^{(2*n)})^p/x^m), x], x, \text{Sin}[d + e*x]/g], x]] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \ \&\& \ \text{IntegerQ}[(m-1)/2] \ \&\& \ \text{IntegerQ}[2*p]$
3760. $\text{Int}[(c_.)*(\cos[(d_.) + (e_.)(x_.)]*(f_.))^{(n2_.)} + (b_.)*(\cos[(d_.) + (e_.)(x_.)]*(f_.))^{(n_.)} + (a_.)]^{(p_.)}\tan[(d_.) + (e_.)(x_.)]^{(m_.)}, x_Symbol] \rightarrow \text{Module}\{g = \text{FreeFactors}[\text{Cos}[d + e*x], x]\}, \text{Simp}[-g^{(m+1)}/e \ \text{Subst}[\text{Int}[(1 - g^2*x^2)^{(m-1)/2}*((a + b*(f*g*x)^n + c*(f*g*x)^{(2*n)})^p/x^m), x], x, \text{Cos}[d + e*x]/g], x]] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \ \&\& \ \text{IntegerQ}[(m-1)/2] \ \&\& \ \text{IntegerQ}[2*p]$
3761. $\text{Int}[\cot[(d_.) + (e_.)(x_.)]^{(m_.)}*((a_.) + (b_.)\sin[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)\sin[(d_.) + (e_.)(x_.)]^{(n2_.)}))]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p*c^p) \ \text{Int}[\text{Cot}[d + e*x]^{m*(b + 2*c*\text{Sin}[d + e*x]^n)^{(2*p)}}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ !\text{IntegerQ}[(m-1)/2] \ \&\& \ \text{EqQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IntegerQ}[p]$
3762. $\text{Int}[(a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}*(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}*(c_.))]^{(p_.)}\tan[(d_.) + (e_.)(x_.)]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p*c^p) \ \text{Int}[\text{Tan}[d + e*x]^{m*(b + 2*c*\text{Cos}[d + e*x]^n)^{(2*p)}}, x]$

- , x] /; FreeQ[{a, b, c, d, e, m, n}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && EqQ[b^2 - 4*a*c, 0] && IntegerQ[p]
3763. Int[cot[(d_) + (e_)*(x_)]^(m_)*((a_) + (b_)*sin[(d_) + (e_)*(x_)]^(n_) + (c_)*sin[(d_) + (e_)*(x_)]^(n2_))^(p_), x_Symbol] :> Simp[(a + b*SIN[d + e*x]^n + c*SIN[d + e*x]^(2*n))^p/(b + 2*c*SIN[d + e*x]^n)^(2*p) Int[Cot[d + e*x]^m*(b + 2*c*SIN[d + e*x]^n)^(2*p), x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && EqQ[b^2 - 4*a*c, 0] && !IntegerQ[p]
3764. Int[((a_) + cos[(d_) + (e_)*(x_)]^(n_)*(b_) + cos[(d_) + (e_)*(x_)]^(n2_)*(c_))^(p_)*tan[(d_) + (e_)*(x_)]^(m_), x_Symbol] :> Simp[(a + b*Cos[d + e*x]^n + c*Cos[d + e*x]^(2*n))^p/(b + 2*c*Cos[d + e*x]^n)^(2*p) Int[Tan[d + e*x]^m*(b + 2*c*Cos[d + e*x]^n)^(2*p), x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && EqQ[n2, 2*n] && !IntegerQ[(m - 1)/2] && EqQ[b^2 - 4*a*c, 0] && !IntegerQ[p]
3765. Int[cot[(d_) + (e_)*(x_)]^(m_)*((a_) + (b_)*sin[(d_) + (e_)*(x_)]^(n_) + (c_)*sin[(d_) + (e_)*(x_)]^(n2_))^(p_), x_Symbol] :> Module[{f = FreeFactors[Cot[d + e*x], x]}, Simp[-f^(m + 1)/e Subst[Int[x^m*(ExpandToSum[c + b*(1 + f^2*x^2)^(n/2) + a*(1 + f^2*x^2)^n, x]^p/(1 + f^2*x^2)^(n*p + 1)), x], x, Cot[d + e*x]/f], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[n2, 2*n] && IntegerQ[n/2] && IntegerQ[p]
3766. Int[(cos[(d_) + (e_)*(x_)]^(n_)*(b_) + cos[(d_) + (e_)*(x_)]^(n2_)*(c_) + (a_))^(p_)*tan[(d_) + (e_)*(x_)]^(m_), x_Symbol] :> Module[{f = FreeFactors[Tan[d + e*x], x]}, Simp[f^(m + 1)/e Subst[Int[x^m*(ExpandToSum[c + b*(1 + f^2*x^2)^(n/2) + a*(1 + f^2*x^2)^n, x]^p/(1 + f^2*x^2)^(n*p + 1)), x], x, Tan[d + e*x]/f], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[n2, 2*n] && IntegerQ[n/2] && IntegerQ[p]
3767. Int[cot[(d_) + (e_)*(x_)]^(m_)*((a_) + (b_)*sin[(d_) + (e_)*(x_)]^(n_) + (c_)*sin[(d_) + (e_)*(x_)]^(n2_))^(p_), x_Symbol] :> Int[ExpandTrig[(1 - sin[d + e*x]^2)^(m/2)*((a + b*sin[d + e*x]^n + c*sin[d + e*x]^(2*n))^p/sin[d + e*x]^m), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[m/2] && NeQ[b^2 - 4*a*c, 0] && IntegersQ[n, p]

3768. $\text{Int}[(a_.) + \cos[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cos[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.)]^{(p_.)} \tan[(d_.) + (e_.)(x_.)]^{(m_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(1 - \cos[d + e*x]^2)^{(m/2)}((a + b*\cos[d + e*x]^n + c*\cos[d + e*x]^{(2*n)})^p / \cos[d + e*x]^m), x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, x\}$ && $\text{EqQ}[n2, 2*n]$ && $\text{IntegerQ}[m/2]$ && $\text{NeQ}[b^2 - 4*a*c, 0]$ && $\text{IntegersQ}[n, p]$
3769. $\text{Int}[(A_) + (B_)*\sin[(d_.) + (e_.)(x_.)]*(a_) + (b_)*\sin[(d_.) + (e_.)(x_.)] + (c_)*\sin[(d_.) + (e_.)(x_.)]^2]^{(n_)}, x_Symbol] \rightarrow \text{Simp}[1/(4^n*c^n) \text{Int}[(A + B*\sin[d + e*x])*(b + 2*c*\sin[d + e*x])^{(2*n)}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B, x\}$ && $\text{EqQ}[b^2 - 4*a*c, 0]$ && $\text{IntegerQ}[n]$
3770. $\text{Int}[(\cos[(d_.) + (e_.)(x_.)]*(b_.) + \cos[(d_.) + (e_.)(x_.)]^2*(c_.) + (a_))^{(n_)}(\cos[(d_.) + (e_.)(x_.)]*(B_.) + (A_)), x_Symbol] \rightarrow \text{Simp}[1/(4^n*c^n) \text{Int}[(A + B*\cos[d + e*x])*(b + 2*c*\cos[d + e*x])^{(2*n)}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B, x\}$ && $\text{EqQ}[b^2 - 4*a*c, 0]$ && $\text{IntegerQ}[n]$
3771. $\text{Int}[(A_) + (B_)*\sin[(d_.) + (e_.)(x_.)]*(a_) + (b_)*\sin[(d_.) + (e_.)(x_.)] + (c_)*\sin[(d_.) + (e_.)(x_.)]^2]^{(n_)}, x_Symbol] \rightarrow \text{Simp}[(a + b*\sin[d + e*x] + c*\sin[d + e*x]^2)^n / (b + 2*c*\sin[d + e*x])^{(2*n)} \text{Int}[(A + B*\sin[d + e*x])*(b + 2*c*\sin[d + e*x])^{(2*n)}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B, x\}$ && $\text{EqQ}[b^2 - 4*a*c, 0]$ && $!\text{IntegerQ}[n]$
3772. $\text{Int}[(\cos[(d_.) + (e_.)(x_.)]*(b_.) + \cos[(d_.) + (e_.)(x_.)]^2*(c_.) + (a_))^{(n_)}(\cos[(d_.) + (e_.)(x_.)]*(B_.) + (A_)), x_Symbol] \rightarrow \text{Simp}[(a + b*\cos[d + e*x] + c*\cos[d + e*x]^2)^n / (b + 2*c*\cos[d + e*x])^{(2*n)} \text{Int}[(A + B*\cos[d + e*x])*(b + 2*c*\cos[d + e*x])^{(2*n)}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B, x\}$ && $\text{EqQ}[b^2 - 4*a*c, 0]$ && $!\text{IntegerQ}[n]$
3773. $\text{Int}[(A_) + (B_)*\sin[(d_.) + (e_.)(x_.)] / ((a_.) + (b_)*\sin[(d_.) + (e_.)(x_.)] + (c_)*\sin[(d_.) + (e_.)(x_.)]^2), x_Symbol] \rightarrow \text{Module}\{q = \text{Rt}[b^2 - 4*a*c, 2], \text{Simp}[(B + (b*B - 2*A*c)/q) \text{Int}[1/(b + q + 2*c*\sin[d + e*x]), x], x] + \text{Simp}[(B - (b*B - 2*A*c)/q) \text{Int}[1/(b - q + 2*c*\sin[d + e*x]), x], x]\} /;$ $\text{FreeQ}\{a, b, c, d, e, A, B, x\}$ && $\text{NeQ}[b$

- $^2 - 4*a*c, 0]$
3774. `Int[(cos[(d_) + (e_)*(x_)]*(B_) + (A_))/((a_) + cos[(d_) + (e_)*(x_)]*(b_) + cos[(d_) + (e_)*(x_)]^2*(c_)), x_Symbol] := Module[{q = Rt[b^2 - 4*a*c, 2]}, Simp[(B + (b*B - 2*A*c)/q) Int[1/(b + q + 2*c*cos[d + e*x]), x], x] + Simp[(B - (b*B - 2*A*c)/q) Int[1/(b - q + 2*c*cos[d + e*x]), x], x]] /; FreeQ[{a, b, c, d, e, A, B}, x] && NeQ[b^2 - 4*a*c, 0]`
3775. `Int[((A_) + (B_)*sin[(d_) + (e_)*(x_)])*((a_) + (b_)*sin[(d_) + (e_)*(x_)] + (c_)*sin[(d_) + (e_)*(x_)]^2)^(n_), x_Symbol] := Int[ExpandTrig[(A + B*sin[d + e*x])*(a + b*sin[d + e*x] + c*sin[d + e*x]^2)^n, x], x] /; FreeQ[{a, b, c, d, e, A, B}, x] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[n]`
3776. `Int[((a_) + cos[(d_) + (e_)*(x_)]*(b_) + cos[(d_) + (e_)*(x_)]^2*(c_))^(n_)*(cos[(d_) + (e_)*(x_)]*(B_) + (A_)), x_Symbol] := Int[ExpandTrig[(A + B*cos[d + e*x])*(a + b*cos[d + e*x] + c*cos[d + e*x]^2)^n, x], x] /; FreeQ[{a, b, c, d, e, A, B}, x] && NeQ[b^2 - 4*a*c, 0] && IntegerQ[n]`
3777. `Int[((c_) + (d_)*(x_))^(m_)*sin[(e_) + (f_)*(x_)], x_Symbol] := Simp[(-c + d*x)^m*(Cos[e + f*x]/f), x] + Simp[d*(m/f) Int[(c + d*x)^(m-1)*Cos[e + f*x], x], x] /; FreeQ[{c, d, e, f}, x] && GtQ[m, 0]`
3778. `Int[((c_) + (d_)*(x_))^(m_)*sin[(e_) + (f_)*(x_)], x_Symbol] := Simp[(c + d*x)^(m+1)*(Sin[e + f*x]/(d*(m+1))), x] - Simp[f/(d*(m+1)) Int[(c + d*x)^(m+1)*Cos[e + f*x], x], x] /; FreeQ[{c, d, e, f}, x] && LtQ[m, -1]`
3779. `Int[sin[(e_) + (Complex[0, fz_])*(f_)*(x_)]/((c_) + (d_)*(x_)), x_Symbol] := Simp[I*(SinhIntegral[c*f*(fz/d) + f*fz*x]/d), x] /; FreeQ[{c, d, e, f, fz}, x] && EqQ[d*e - c*f*fz, 0]`
3780. `Int[sin[(e_) + (f_)*(x_)]/((c_) + (d_)*(x_)), x_Symbol] := Simp[SinhIntegral[e + f*x]/d, x] /; FreeQ[{c, d, e, f}, x] && EqQ[d*e - c*f, 0]`

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3781. $\text{Int}[\sin[(e_{\cdot}) + (\text{Complex}[0, fz_{\cdot}])*(f_{\cdot})*(x_{\cdot})]/((c_{\cdot}) + (d_{\cdot})*(x_{\cdot}))], x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[\text{CoshIntegral}[(-c)*f*(fz/d) - f*fz*x]/d, x] /; \text{FreeQ}\{c, d, e, f, fz\}, x\} \ \&\& \ \text{EqQ}[d*(e - \text{Pi}/2) - c*f*fz*I, 0] \ \&\& \ \text{NegQ}[c*f*(fz/d), 0]$
3782. $\text{Int}[\sin[(e_{\cdot}) + (\text{Complex}[0, fz_{\cdot}])*(f_{\cdot})*(x_{\cdot})]/((c_{\cdot}) + (d_{\cdot})*(x_{\cdot}))], x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[\text{CoshIntegral}[c*f*(fz/d) + f*fz*x]/d, x] /; \text{FreeQ}\{c, d, e, f, fz\}, x\} \ \&\& \ \text{EqQ}[d*(e - \text{Pi}/2) - c*f*fz*I, 0]$
3783. $\text{Int}[\sin[(e_{\cdot}) + (f_{\cdot})*(x_{\cdot})]/((c_{\cdot}) + (d_{\cdot})*(x_{\cdot}))], x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[\text{CosIntegral}[e - \text{Pi}/2 + f*x]/d, x] /; \text{FreeQ}\{c, d, e, f\}, x\} \ \&\& \ \text{EqQ}[d*(e - \text{Pi}/2) - c*f, 0]$
3784. $\text{Int}[\sin[(e_{\cdot}) + (f_{\cdot})*(x_{\cdot})]/((c_{\cdot}) + (d_{\cdot})*(x_{\cdot}))], x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[\text{Cos}[(d*e - c*f)/d] \ \text{Int}[\text{Sin}[c*(f/d) + f*x]/(c + d*x), x], x] + \text{Simp}[\text{Sin}[(d*e - c*f)/d] \ \text{Int}[\text{Cos}[c*(f/d) + f*x]/(c + d*x), x], x] /; \text{FreeQ}\{c, d, e, f\}, x\} \ \&\& \ \text{NeQ}[d*e - c*f, 0]$
3785. $\text{Int}[\sin[\text{Pi}/2 + (e_{\cdot}) + (f_{\cdot})*(x_{\cdot})]/\text{Sqrt}[(c_{\cdot}) + (d_{\cdot})*(x_{\cdot})], x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[2/d \ \text{Subst}[\text{Int}[\text{Cos}[f*(x^2/d)], x], x, \text{Sqrt}[c + d*x]], x] /; \text{FreeQ}\{c, d, e, f\}, x\} \ \&\& \ \text{ComplexFreeQ}[f] \ \&\& \ \text{EqQ}[d*e - c*f, 0]$
3786. $\text{Int}[\sin[(e_{\cdot}) + (f_{\cdot})*(x_{\cdot})]/\text{Sqrt}[(c_{\cdot}) + (d_{\cdot})*(x_{\cdot})], x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[2/d \ \text{Subst}[\text{Int}[\text{Sin}[f*(x^2/d)], x], x, \text{Sqrt}[c + d*x]], x] /; \text{FreeQ}\{c, d, e, f\}, x\} \ \&\& \ \text{ComplexFreeQ}[f] \ \&\& \ \text{EqQ}[d*e - c*f, 0]$
3787. $\text{Int}[\sin[(e_{\cdot}) + (f_{\cdot})*(x_{\cdot})]/\text{Sqrt}[(c_{\cdot}) + (d_{\cdot})*(x_{\cdot})], x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[\text{Cos}[(d*e - c*f)/d] \ \text{Int}[\text{Sin}[c*(f/d) + f*x]/\text{Sqrt}[c + d*x], x], x] + \text{Simp}[\text{Sin}[(d*e - c*f)/d] \ \text{Int}[\text{Cos}[c*(f/d) + f*x]/\text{Sqrt}[c + d*x], x], x] /; \text{FreeQ}\{c, d, e, f\}, x\} \ \&\& \ \text{ComplexFreeQ}[f] \ \&\& \ \text{NeQ}[d*e - c*f, 0]$
3788. $\text{Int}[(c_{\cdot}) + (d_{\cdot})*(x_{\cdot})]^{(m_{\cdot})} \sin[(e_{\cdot}) + \text{Pi}*(k_{\cdot}) + (f_{\cdot})*(x_{\cdot})], x_{\cdot} \text{Symbol}] \rightarrow \text{Simp}[I/2 \ \text{Int}[(c + d*x)^m/(E^{(I*k*Pi)}*E^{(I*(e + f*x))}), x], x] - \text{Simp}[I/2 \ \text{Int}[(c + d*x)^m * E^{(I*k*Pi)} * E^{(I*(e + f*x))}, x], x] /;$

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FreeQ[{c, d, e, f, m}, x] && IntegerQ[2*k]

3789. Int[((c_.) + (d_.)*(x_))^(m_.)*sin[(e_.) + (f_.)*(x_)], x_Symbol] := S
imp[I/2 Int[(c + d*x)^m/E^(I*(e + f*x)), x], x] - Simp[I/2 Int[(c
+ d*x)^m*E^(I*(e + f*x)), x], x] /; FreeQ[{c, d, e, f, m}, x]

3790. Int[((c_.) + (d_.)*(x_))^(m_.)*sin[(e_.) + ((f_.)*(x_))/2]^2, x_Symbol
] := Simp[1/2 Int[(c + d*x)^m, x], x] - Simp[1/2 Int[(c + d*x)^m*C
os[2*e + f*x], x], x] /; FreeQ[{c, d, e, f, m}, x]

3791. Int[((c_.) + (d_.)*(x_))*((b_.)*sin[(e_.) + (f_.)*(x_)])^(n_), x_Symbo
l] := Simp[d*((b*SIN[e + f*x])^n/(f^2*n^2)), x] + (-Simp[b*(c + d*x)*C
os[e + f*x]*((b*SIN[e + f*x])^(n - 1)/(f*n)), x] + Simp[b^2*((n - 1)/n
) Int[(c + d*x)*(b*SIN[e + f*x])^(n - 2), x], x]) /; FreeQ[{b, c, d,
e, f}, x] && GtQ[n, 1]

3792. Int[((c_.) + (d_.)*(x_))^(m_)*((b_.)*sin[(e_.) + (f_.)*(x_)])^(n_), x_
Symbol] := Simp[d*m*(c + d*x)^(m - 1)*((b*SIN[e + f*x])^n/(f^2*n^2)),
x] + (-Simp[b*(c + d*x)^m*Cos[e + f*x]*((b*SIN[e + f*x])^(n - 1)/(f*n
)), x] + Simp[b^2*((n - 1)/n) Int[(c + d*x)^m*(b*SIN[e + f*x])^(n - 2
), x], x] - Simp[d^2*m*((m - 1)/(f^2*n^2)) Int[(c + d*x)^(m - 2)*(b*
SIN[e + f*x])^n, x], x]) /; FreeQ[{b, c, d, e, f}, x] && GtQ[n, 1] &&
GtQ[m, 1]

3793. Int[((c_.) + (d_.)*(x_))^(m_)*sin[(e_.) + (f_.)*(x_)]^(n_), x_Symbol]
:= Int[ExpandTrigReduce[(c + d*x)^m, Sin[e + f*x]^n, x], x] /; FreeQ[{
c, d, e, f, m}, x] && IGtQ[n, 1] && (!RationalQ[m] || (GeQ[m, -1] &&
LtQ[m, 1]))

3794. Int[((c_.) + (d_.)*(x_))^(m_)*sin[(e_.) + (f_.)*(x_)]^(n_), x_Symbol]
:= Simp[(c + d*x)^(m + 1)*(Sin[e + f*x]^n/(d*(m + 1))), x] - Simp[f*(n
/(d*(m + 1))) Int[ExpandTrigReduce[(c + d*x)^(m + 1), Cos[e + f*x]*S
in[e + f*x]^(n - 1), x], x], x] /; FreeQ[{c, d, e, f, m}, x] && IGtQ[n
, 1] && GeQ[m, -2] && LtQ[m, -1]

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3795.  $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{(m_{.})} \left((b_{.}) \sin[e_{.}] + (f_{.})(x_{.})\right)^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)} * ((b*\text{Sin}[e + f*x])^n / (d*(m + 1))), x] + (-\text{Simp}[b*f*n*(c + d*x)^{(m + 2)} * \text{Cos}[e + f*x] * ((b*\text{Sin}[e + f*x])^{(n - 1)}) / (d^2*(m + 1)*(m + 2))], x] + \text{Simp}[b^2*f^2*n*((n - 1) / (d^2*(m + 1)*(m + 2)))] \text{Int}[(c + d*x)^{(m + 2)} * (b*\text{Sin}[e + f*x])^{(n - 2)}, x], x] - \text{Simp}[f^2*(n^2 / (d^2*(m + 1)*(m + 2)))] \text{Int}[(c + d*x)^{(m + 2)} * (b*\text{Sin}[e + f*x])^n, x], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \&\& \text{GtQ}[n, 1] \&\& \text{LtQ}[m, -2]$
3796.  $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right) * \left((b_{.}) \sin[e_{.}] + (f_{.})(x_{.})\right)^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(c + d*x) * \text{Cos}[e + f*x] * ((b*\text{Sin}[e + f*x])^{(n + 1)}) / (b*f*(n + 1))], x] + (-\text{Simp}[d * ((b*\text{Sin}[e + f*x])^{(n + 2)}) / (b^2*f^2*(n + 1)*(n + 2))], x] + \text{Simp}[(n + 2) / (b^2*(n + 1))] \text{Int}[(c + d*x) * (b*\text{Sin}[e + f*x])^{(n + 2)}, x], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[n, -2]$
3797.  $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{(m_{.})} \left((b_{.}) \sin[e_{.}] + (f_{.})(x_{.})\right)^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(c + d*x)^m * \text{Cos}[e + f*x] * ((b*\text{Sin}[e + f*x])^{(n + 1)}) / (b*f*(n + 1))], x] + (-\text{Simp}[d*m*(c + d*x)^{(m - 1)} * ((b*\text{Sin}[e + f*x])^{(n + 2)}) / (b^2*f^2*(n + 1)*(n + 2))], x] + \text{Simp}[(n + 2) / (b^2*(n + 1))] \text{Int}[(c + d*x)^m * (b*\text{Sin}[e + f*x])^{(n + 2)}, x], x] + \text{Simp}[d^2*m*((m - 1) / (b^2*f^2*(n + 1)*(n + 2)))] \text{Int}[(c + d*x)^{(m - 2)} * (b*\text{Sin}[e + f*x])^{(n + 2)}, x], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[n, -2] \&\& \text{GtQ}[m, 1]$
3798.  $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{(m_{.})} \left((a_{.}) + (b_{.}) \sin[e_{.}] + (f_{.})(x_{.})\right)^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(c + d*x)^m, (a + b*\text{Sin}[e + f*x])^n], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{IGtQ}[n, 0] \&\& (\text{EqQ}[n, 1] \parallel \text{IGtQ}[m, 0] \parallel \text{NeQ}[a^2 - b^2, 0])$
3799.  $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{(m_{.})} \left((a_{.}) + (b_{.}) \sin[e_{.}] + (f_{.})(x_{.})\right)^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(2*a)^n \text{Int}[(c + d*x)^m * \text{Sin}[(1/2)*(e + \text{Pi}*(a/(2*b))) + f*(x/2)]^{(2*n)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[n] \&\& (\text{GtQ}[n, 0] \parallel \text{IGtQ}[m, 0])$
3800.  $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{(m_{.})} \left((a_{.}) + (b_{.}) \sin[e_{.}] + (f_{.})(x_{.})\right)^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(2*a)^{\text{IntPart}[n]} * ((a + b*\text{Sin}[e + f*x])^{\text{FracPar}}$

- $t[n]/\text{Sin}[e/2 + a*(\text{Pi}/(4*b)) + f*(x/2)]^{(2*\text{FracPart}[n])}$  Int[(c + d\*x)  
 $]^m*\text{Sin}[e/2 + a*(\text{Pi}/(4*b)) + f*(x/2)]^{(2*n)}, x], x] /;$  FreeQ[{a, b, c,  
d, e, f, m}, x] && EqQ[a^2 - b^2, 0] && IntegerQ[n + 1/2] && (GtQ[n,  
0] || IGtQ[m, 0])
3801. Int[((c\_.) + (d\_.)\*(x\_))^(m\_.)/((a\_) + (b\_.)\*sin[(e\_.) + Pi\*(k\_.) + (C  
omplex[0, fz\_])\*(f\_.)\*(x\_)]), x\_Symbol] := Simp[2 Int[((c + d\*x)^m\*(  
E^((-I)\*e + f\*fz\*x)/(b + (2\*a\*E^((-I)\*e + f\*fz\*x))/E^(I\*Pi\*(k - 1/2))  
- (b\*E^(2\*((-I)\*e + f\*fz\*x)))/E^(2\*I\*k\*Pi)))/E^(I\*Pi\*(k - 1/2)), x],  
x] /; FreeQ[{a, b, c, d, e, f, fz}, x] && IntegerQ[2\*k] && NeQ[a^2 - b  
^2, 0] && IGtQ[m, 0]
3802. Int[((c\_.) + (d\_.)\*(x\_))^(m\_.)/((a\_) + (b\_.)\*sin[(e\_.) + Pi\*(k\_.) + (f  
\_.)\*(x\_)]), x\_Symbol] := Simp[2 Int[(c + d\*x)^m\*E^(I\*Pi\*(k - 1/2))\*(  
E^(I\*(e + f\*x))/(b + 2\*a\*E^(I\*Pi\*(k - 1/2))\*E^(I\*(e + f\*x)) - b\*E^(2\*I  
\*k\*Pi)\*E^(2\*I\*(e + f\*x))), x], x] /; FreeQ[{a, b, c, d, e, f}, x] &&  
IntegerQ[2\*k] && NeQ[a^2 - b^2, 0] && IGtQ[m, 0]
3803. Int[((c\_.) + (d\_.)\*(x\_))^(m\_.)/((a\_) + (b\_.)\*sin[(e\_.) + (Complex[0, f  
z\_])\*(f\_.)\*(x\_)]), x\_Symbol] := Simp[2 Int[(c + d\*x)^m\*(E^((-I)\*e +  
f\*fz\*x)/((-I)\*b + 2\*a\*E^((-I)\*e + f\*fz\*x) + I\*b\*E^(2\*((-I)\*e + f\*fz\*x)  
))), x], x] /; FreeQ[{a, b, c, d, e, f, fz}, x] && NeQ[a^2 - b^2, 0] &&  
IGtQ[m, 0]
3804. Int[((c\_.) + (d\_.)\*(x\_))^(m\_.)/((a\_) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]),  
x\_Symbol] := Simp[2 Int[(c + d\*x)^m\*(E^(I\*(e + f\*x)))/(I\*b + 2\*a\*E^(  
I\*(e + f\*x)) - I\*b\*E^(2\*I\*(e + f\*x))), x], x] /; FreeQ[{a, b, c, d, e,  
f}, x] && NeQ[a^2 - b^2, 0] && IGtQ[m, 0]
3805. Int[((c\_.) + (d\_.)\*(x\_))^(m\_.)/((a\_) + (b\_.)\*sin[(e\_.) + (f\_.)\*(x\_)]^2,  
x\_Symbol] := Simp[b\*(c + d\*x)^m\*(Cos[e + f\*x]/(f\*(a^2 - b^2)\*(a + b  
\*Sin[e + f\*x]))], x] + (Simp[a/(a^2 - b^2) Int[(c + d\*x)^m/(a + b\*Si  
n[e + f\*x]), x], x] - Simp[b\*d\*(m/(f\*(a^2 - b^2))) Int[(c + d\*x)^(m  
- 1)\*(Cos[e + f\*x]/(a + b\*Sin[e + f\*x])), x], x]) /; FreeQ[{a, b, c, d,  
e, f}, x] && NeQ[a^2 - b^2, 0] && IGtQ[m, 0]

3806.  $\text{Int}[\left((c_{.}) + (d_{.}) \cdot (x_{.})\right)^{(m_{.})} \cdot \left((a_{.}) + (b_{.}) \cdot \sin\left[(e_{.}) + (f_{.}) \cdot (x_{.})\right]\right)^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{(-b) \cdot (c + d \cdot x)^m \cdot \cos[e + f \cdot x] \cdot (a + b \cdot \sin[e + f \cdot x])^{n+1}}{(f \cdot (n+1) \cdot (a^2 - b^2))}, x\right] + \left(\text{Simp}\left[\frac{a}{(a^2 - b^2)} \int \left((c + d \cdot x)^m \cdot (a + b \cdot \sin[e + f \cdot x])^{n+1}, x\right), x\right] - \text{Simp}\left[\frac{b \cdot (n+2)}{(n+1) \cdot (a^2 - b^2)} \int \left((c + d \cdot x)^m \cdot \sin[e + f \cdot x] \cdot (a + b \cdot \sin[e + f \cdot x])^{n+1}, x\right), x\right] + \text{Simp}\left[\frac{b \cdot d \cdot m}{(f \cdot (n+1) \cdot (a^2 - b^2))} \int \left((c + d \cdot x)^{m-1} \cdot \cos[e + f \cdot x] \cdot (a + b \cdot \sin[e + f \cdot x])^{n+1}, x\right), x\right]\right) /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[a^2 - b^2, 0] && ILtQ[n, -2] && IGtQ[m, 0]
3807.  $\text{Int}[\left((c_{.}) + (d_{.}) \cdot (x_{.})\right)^{(m_{.})} \cdot \left((a_{.}) + (b_{.}) \cdot \sin\left[(e_{.}) + (f_{.}) \cdot (x_{.})\right]\right)^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}\left[\left((c + d \cdot x)^m \cdot (a + b \cdot \sin[e + f \cdot x])^n, x\right) /;$  FreeQ[{a, b, c, d, e, f, m, n}, x]
3808.  $\text{Int}\left[(u_{.})^{(m_{.})} \cdot \left((a_{.}) + (b_{.}) \cdot \sin[v_{.}]\right)^{(n_{.})}, x_{\text{Symbol}}\right] \rightarrow \text{Int}\left[\text{ExpandToSum}[u, x]^m \cdot (a + b \cdot \sin[\text{ExpandToSum}[v, x]])^n, x\right] /;$  FreeQ[{a, b, m, n}, x] && LinearQ[{u, v}, x] && !LinearMatchQ[{u, v}, x]
3809.  $\text{Int}\left[\left((a_{.}) + \cos[v_{.}] \cdot (b_{.})\right)^{(n_{.})} \cdot (u_{.})^{(m_{.})}, x_{\text{Symbol}}\right] \rightarrow \text{Int}\left[\text{ExpandToSum}[u, x]^m \cdot (a + b \cdot \cos[\text{ExpandToSum}[v, x]])^n, x\right] /;$  FreeQ[{a, b, m, n}, x] && LinearQ[{u, v}, x] && !LinearMatchQ[{u, v}, x]
3810.  $\text{Int}\left[\left((a_{.}) + (b_{.}) \cdot (x_{.})^{(n_{.})}\right)^{(p_{.})} \cdot \sin\left[(c_{.}) + (d_{.}) \cdot (x_{.})\right], x_{\text{Symbol}}\right] \rightarrow \text{Int}\left[\text{ExpandIntegrand}[\sin[c + d \cdot x], (a + b \cdot x^n)^p, x], x\right] /;$  FreeQ[{a, b, c, d, n}, x] && IGtQ[p, 0]
3811.  $\text{Int}\left[\cos\left[(c_{.}) + (d_{.}) \cdot (x_{.})\right] \cdot \left((a_{.}) + (b_{.}) \cdot (x_{.})^{(n_{.})}\right)^{(p_{.})}, x_{\text{Symbol}}\right] \rightarrow \text{Int}\left[\text{ExpandIntegrand}[\cos[c + d \cdot x], (a + b \cdot x^n)^p, x], x\right] /;$  FreeQ[{a, b, c, d, n}, x] && IGtQ[p, 0]
3812.  $\text{Int}\left[\left((a_{.}) + (b_{.}) \cdot (x_{.})^{(n_{.})}\right)^{(p_{.})} \cdot \sin\left[(c_{.}) + (d_{.}) \cdot (x_{.})\right], x_{\text{Symbol}}\right] \rightarrow \text{Simp}\left[x^{(-n+1)} \cdot (a + b \cdot x^n)^{(p+1)} \cdot \left(\frac{\sin[c + d \cdot x]}{b \cdot n \cdot (p+1)}\right), x\right] + \left(-\text{Simp}\left[\frac{(-n+1)}{b \cdot n \cdot (p+1)} \int \left((a + b \cdot x^n)^{(p+1)} \cdot \sin[c + d \cdot x]\right) / x^n, x\right] - \text{Simp}\left[\frac{d}{b \cdot n \cdot (p+1)} \int \left(x^{(-n+1)} \cdot (a + b \cdot x^n)^{(p+1)} \cdot \cos[c + d \cdot x], x\right), x\right]\right) /;$  FreeQ[{a, b, c, d}, x] && ILtQ[p, -1] && IGtQ[n, 2]

3813. `Int[Cos[(c_.) + (d_.)*(x_)]*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :`  
`> Simp[x^(-n + 1)*(a + b*x^n)^(p + 1)*(Cos[c + d*x]/(b*n*(p + 1))), x]`  
`+ (-Simp[(-n + 1)/(b*n*(p + 1)) Int[((a + b*x^n)^(p + 1)*Cos[c + d*`  
`x])/x^n, x], x] + Simp[d/(b*n*(p + 1)) Int[x^(-n + 1)*(a + b*x^n)^(p`  
`+ 1)*Sin[c + d*x], x], x) /; FreeQ[{a, b, c, d}, x] && ILtQ[p, -1] &`  
`& IGtQ[n, 2]`
3814. `Int[((a_) + (b_.)*(x_)^(n_))^(p_)*Sin[(c_.) + (d_.)*(x_)], x_Symbol] :`  
`> Int[ExpandIntegrand[Sin[c + d*x], (a + b*x^n)^p, x], x] /; FreeQ[{a,`  
`b, c, d}, x] && ILtQ[p, 0] && IGtQ[n, 0] && (EqQ[n, 2] || EqQ[p, -1])`
3815. `Int[Cos[(c_.) + (d_.)*(x_)]*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :`  
`> Int[ExpandIntegrand[Cos[c + d*x], (a + b*x^n)^p, x], x] /; FreeQ[{a,`  
`b, c, d}, x] && ILtQ[p, 0] && IGtQ[n, 0] && (EqQ[n, 2] || EqQ[p, -1])`
3816. `Int[((a_) + (b_.)*(x_)^(n_))^(p_)*Sin[(c_.) + (d_.)*(x_)], x_Symbol] :`  
`> Int[x^(n*p)*(b + a/x^n)^p*SIN[c + d*x], x] /; FreeQ[{a, b, c, d}, x]`  
`&& ILtQ[p, 0] && ILtQ[n, 0]`
3817. `Int[Cos[(c_.) + (d_.)*(x_)]*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :`  
`> Int[x^(n*p)*(b + a/x^n)^p*cos[c + d*x], x] /; FreeQ[{a, b, c, d}, x]`  
`&& ILtQ[p, 0] && ILtQ[n, 0]`
3818. `Int[((a_) + (b_.)*(x_)^(n_))^(p_)*Sin[(c_.) + (d_.)*(x_)], x_Symbol] :`  
`> Unintegrable[(a + b*x^n)^p*SIN[c + d*x], x] /; FreeQ[{a, b, c, d, n,`  
`p}, x]`
3819. `Int[Cos[(c_.) + (d_.)*(x_)]*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :`  
`> Unintegrable[(a + b*x^n)^p*cos[c + d*x], x] /; FreeQ[{a, b, c, d, n,`  
`p}, x]`
3820. `Int[((e_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_.)*Sin[(c_.) + (d_.`  
`)*(x_)], x_Symbol] :> Int[ExpandIntegrand[SIN[c + d*x], (e*x)^m*(a + b`  
`*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && IGtQ[p, 0]`

3821.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_.)]*((e_.)(x_.))^{(m_.)}*((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{Cos}[c + d*x], (e*x)^m*(a + b*x^n)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x\} \&\& \text{IGtQ}[p, 0]$
3822.  $\text{Int}[(e_.)(x_.))^{(m_.)}*((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}*\text{Sin}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Simp}[e^m*(a + b*x^n)^{(p+1)}*(\text{Sin}[c + d*x]/(b*n*(p+1))), x] - \text{Simp}[d*(e^m/(b*n*(p+1))) \text{Int}[(a + b*x^n)^{(p+1)}*\text{Cos}[c + d*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x\} \&\& \text{ILtQ}[p, -1] \&\& \text{EqQ}[m, n - 1] \&\& (\text{IntegerQ}[n] \parallel \text{GtQ}[e, 0])$
3823.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_.)]*((e_.)(x_.))^{(m_.)}*((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[e^m*(a + b*x^n)^{(p+1)}*(\text{Cos}[c + d*x]/(b*n*(p+1))), x] + \text{Simp}[d*(e^m/(b*n*(p+1))) \text{Int}[(a + b*x^n)^{(p+1)}*\text{Sin}[c + d*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x\} \&\& \text{ILtQ}[p, -1] \&\& \text{EqQ}[m, n - 1] \&\& (\text{IntegerQ}[n] \parallel \text{GtQ}[e, 0])$
3824.  $\text{Int}[(x_.)^{(m_.)}*((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}*\text{Sin}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Simp}[x^{(m-n+1)}*(a + b*x^n)^{(p+1)}*(\text{Sin}[c + d*x]/(b*n*(p+1))), x] + (-\text{Simp}[(m-n+1)/(b*n*(p+1)) \text{Int}[x^{(m-n)}*(a + b*x^n)^{(p+1)}*\text{Sin}[c + d*x], x], x] - \text{Simp}[d/(b*n*(p+1)) \text{Int}[x^{(m-n+1)}*(a + b*x^n)^{(p+1)}*\text{Cos}[c + d*x], x], x]) /; \text{FreeQ}\{a, b, c, d, m\}, x\} \&\& \text{ILtQ}[p, -1] \&\& \text{IGtQ}[n, 0] \&\& (\text{GtQ}[m - n + 1, 0] \parallel \text{GtQ}[n, 2]) \&\& \text{RationalQ}[m]$
3825.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_.)]*(x_.)^{(m_.)}*((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m-n+1)}*(a + b*x^n)^{(p+1)}*(\text{Cos}[c + d*x]/(b*n*(p+1))), x] + (-\text{Simp}[(m-n+1)/(b*n*(p+1)) \text{Int}[x^{(m-n)}*(a + b*x^n)^{(p+1)}*\text{Cos}[c + d*x], x], x] + \text{Simp}[d/(b*n*(p+1)) \text{Int}[x^{(m-n+1)}*(a + b*x^n)^{(p+1)}*\text{Sin}[c + d*x], x], x]) /; \text{FreeQ}\{a, b, c, d, m\}, x\} \&\& \text{ILtQ}[p, -1] \&\& \text{IGtQ}[n, 0] \&\& (\text{GtQ}[m - n + 1, 0] \parallel \text{GtQ}[n, 2]) \&\& \text{RationalQ}[m]$
3826.  $\text{Int}[(x_.)^{(m_.)}*((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}*\text{Sin}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{Sin}[c + d*x], x^m*(a + b*x^n)^p, x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x\} \&\& \text{ILtQ}[p, 0] \&\& \text{IGtQ}[n, 0] \&\& (\text{EqQ}[n, 2] \parallel \text{EqQ}[p, -1]) \&\& \text{IntegerQ}[m]$

3827.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_.)](x_.)^{(m_.)}((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{Cos}[c + d*x], x^m*(a + b*x^n)^p, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ (\text{EqQ}[n, 2] \ || \ \text{EqQ}[p, -1]) \ \&\& \ \text{IntegerQ}[m]$
3828.  $\text{Int}[(x_.)^{(m_.)}((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}\text{Sin}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Int}[x^{(m + n*p)}*(b + a/x^n)^p*\text{Sin}[c + d*x], x] /;$   $\text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{ILtQ}[n, 0]$
3829.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_.)](x_.)^{(m_.)}((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[x^{(m + n*p)}*(b + a/x^n)^p*\text{Cos}[c + d*x], x] /;$   $\text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{ILtQ}[n, 0]$
3830.  $\text{Int}[(e_.)(x_.)^{(m_.)}((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}\text{Sin}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Unintegrable}[(e*x)^m*(a + b*x^n)^p*\text{Sin}[c + d*x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
3831.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_.)](e_.)(x_.)^{(m_.)}((a_.) + (b_.)(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Unintegrable}[(e*x)^m*(a + b*x^n)^p*\text{Cos}[c + d*x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
3832.  $\text{Int}[\text{Sin}[(d_.)((e_.) + (f_.)(x_.))^2], x\_Symbol] \rightarrow \text{Simp}[(\text{Sqrt}[\text{Pi}/2]/(f*\text{Rt}[d, 2]))*\text{FresnelS}[\text{Sqrt}[2/\text{Pi}]*\text{Rt}[d, 2]*(e + f*x)], x] /;$   $\text{FreeQ}[\{d, e, f\}, x]$
3833.  $\text{Int}[\text{Cos}[(d_.)((e_.) + (f_.)(x_.))^2], x\_Symbol] \rightarrow \text{Simp}[(\text{Sqrt}[\text{Pi}/2]/(f*\text{Rt}[d, 2]))*\text{FresnelC}[\text{Sqrt}[2/\text{Pi}]*\text{Rt}[d, 2]*(e + f*x)], x] /;$   $\text{FreeQ}[\{d, e, f\}, x]$
3834.  $\text{Int}[\text{Sin}[(c_.) + (d_.)((e_.) + (f_.)(x_.))^2], x\_Symbol] \rightarrow \text{Simp}[\text{Sin}[c] \text{Int}[\text{Cos}[d*(e + f*x)^2], x], x] + \text{Simp}[\text{Cos}[c] \text{Int}[\text{Sin}[d*(e + f*x)^2], x], x] /;$   $\text{FreeQ}[\{c, d, e, f\}, x]$
3835.  $\text{Int}[\text{Cos}[(c_.) + (d_.)((e_.) + (f_.)(x_.))^2], x\_Symbol] \rightarrow \text{Simp}[\text{Cos}[c] \text{Int}[\text{Cos}[d*(e + f*x)^2], x], x] - \text{Simp}[\text{Sin}[c] \text{Int}[\text{Sin}[d*(e + f*x)^2], x], x]$

- 2], x], x] /; FreeQ[{c, d, e, f}, x]
3836. Int[Sin[(c\_.) + (d\_.)\*((e\_.) + (f\_.)\*(x\_))^(n\_)], x\_Symbol] := Simp[I/2 Int[E^((-c)\*I - d\*I\*(e + f\*x)^n), x], x] - Simp[I/2 Int[E^(c\*I + d\*I\*(e + f\*x)^n), x], x] /; FreeQ[{c, d, e, f}, x] && IGtQ[n, 2]
3837. Int[Cos[(c\_.) + (d\_.)\*((e\_.) + (f\_.)\*(x\_))^(n\_)], x\_Symbol] := Simp[1/2 Int[E^((-c)\*I - d\*I\*(e + f\*x)^n), x], x] + Simp[1/2 Int[E^(c\*I + d\*I\*(e + f\*x)^n), x], x] /; FreeQ[{c, d, e, f}, x] && IGtQ[n, 2]
3838. Int[((a\_.) + (b\_.)\*Sin[(c\_.) + (d\_.)\*((e\_.) + (f\_.)\*(x\_))^(n\_)])^(p\_), x\_Symbol] := Int[ExpandTrigReduce[(a + b\*Sin[c + d\*(e + f\*x)^n])^p, x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 1] && IGtQ[n, 1]
3839. Int[((a\_.) + Cos[(c\_.) + (d\_.)\*((e\_.) + (f\_.)\*(x\_))^(n\_)])\*(b\_.))^(p\_), x\_Symbol] := Int[ExpandTrigReduce[(a + b\*Cos[c + d\*(e + f\*x)^n])^p, x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 1] && IGtQ[n, 1]
3840. Int[((a\_.) + (b\_.)\*Sin[(c\_.) + (d\_.)\*((e\_.) + (f\_.)\*(x\_))^(n\_)])^(p\_.), x\_Symbol] := Simp[-f^(-1) Subst[Int[(a + b\*Sin[c + d/x^n])^p/x^2, x], x, 1/(e + f\*x)], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && ILtQ[n, 0] && EqQ[n, -2]
3841. Int[((a\_.) + Cos[(c\_.) + (d\_.)\*((e\_.) + (f\_.)\*(x\_))^(n\_)])\*(b\_.))^(p\_.), x\_Symbol] := Simp[-f^(-1) Subst[Int[(a + b\*Cos[c + d/x^n])^p/x^2, x], x, 1/(e + f\*x)], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && ILtQ[n, 0] && EqQ[n, -2]
3842. Int[((a\_.) + (b\_.)\*Sin[(c\_.) + (d\_.)\*((e\_.) + (f\_.)\*(x\_))^(n\_)])^(p\_.), x\_Symbol] := Simp[1/(n\*f) Subst[Int[x^(1/n - 1)\*(a + b\*Sin[c + d\*x])^p, x], x, (e + f\*x)^n], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && IntegerQ[1/n]
3843. Int[((a\_.) + Cos[(c\_.) + (d\_.)\*((e\_.) + (f\_.)\*(x\_))^(n\_)])\*(b\_.))^(p\_.), x\_Symbol] := Simp[1/(n\*f) Subst[Int[x^(1/n - 1)\*(a + b\*Cos[c + d\*x])^p, x], x, (e + f\*x)^n], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && IntegerQ[1/n]

- p, 0] && IntegerQ[1/n]
3844.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(c_{\cdot}) + (d_{\cdot})((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(n_{\cdot})})]^{(p_{\cdot})}\right), x_{\text{Symbol}}] \rightarrow \text{Module}[\{k = \text{Denominator}[n]\}, \text{Simp}[k/f \text{ Subst}[\text{Int}[x^{(k-1)}(a + b\sin[c + d*x^{(k*n)}])^p, x], x, (e + f*x)^{(1/k)}], x]] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{FractionQ}[n]$
3845.  $\text{Int}[\left((a_{\cdot}) + \cos[(c_{\cdot}) + (d_{\cdot})((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(n_{\cdot})})]*(b_{\cdot})\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Module}[\{k = \text{Denominator}[n]\}, \text{Simp}[k/f \text{ Subst}[\text{Int}[x^{(k-1)}(a + b\cos[c + d*x^{(k*n)}])^p, x], x, (e + f*x)^{(1/k)}], x]] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{FractionQ}[n]$
3846.  $\text{Int}[\sin[(c_{\cdot}) + (d_{\cdot})((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(n_{\cdot})})], x_{\text{Symbol}}] \rightarrow \text{Simp}[I/2 \text{ Int}[E^{(-c)*I - d*I*(e + f*x)^n}, x], x] - \text{Simp}[I/2 \text{ Int}[E^{(c*I + d*I*(e + f*x)^n}, x], x]] /; \text{FreeQ}[\{c, d, e, f, n\}, x]$
3847.  $\text{Int}[\cos[(c_{\cdot}) + (d_{\cdot})((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(n_{\cdot})})], x_{\text{Symbol}}] \rightarrow \text{Simp}[1/2 \text{ Int}[E^{(-c)*I - d*I*(e + f*x)^n}, x], x] + \text{Simp}[1/2 \text{ Int}[E^{(c*I + d*I*(e + f*x)^n}, x], x]] /; \text{FreeQ}[\{c, d, e, f, n\}, x]$
3848.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(c_{\cdot}) + (d_{\cdot})((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(n_{\cdot})})]^{(p_{\cdot})}\right), x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(a + b\sin[c + d*(e + f*x)^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[p, 1]$
3849.  $\text{Int}[\left((a_{\cdot}) + \cos[(c_{\cdot}) + (d_{\cdot})((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(n_{\cdot})})]*(b_{\cdot})\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(a + b\cos[c + d*(e + f*x)^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[p, 1]$
3850.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\sin[(c_{\cdot}) + (d_{\cdot})((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(n_{\cdot})})]^{(p_{\cdot})}\right), x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(a + b\sin[c + d*(e + f*x)^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, f, n, p\}, x]$
3851.  $\text{Int}[\left((a_{\cdot}) + \cos[(c_{\cdot}) + (d_{\cdot})((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(n_{\cdot})})]*(b_{\cdot})\right)^{(p_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(a + b\cos[c + d*(e + f*x)^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, f, n, p\}, x]$



3852.  $\text{Int}[(a_.) + (b_.)*\text{Sin}[(c_.) + (d_.)*(u_)^(n_.)]^(p_.), x\_Symbol] \rightarrow \text{Int}[(a + b*\text{Sin}[c + d*\text{ExpandToSum}[u, x]^n])^p, x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& !\text{LinearMatchQ}[u, x]$
3853.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.)*(u_)^(n_.)]*(b_.)]^(p_.), x\_Symbol] \rightarrow \text{Int}[(a + b*\text{Cos}[c + d*\text{ExpandToSum}[u, x]^n])^p, x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& !\text{LinearMatchQ}[u, x]$
3854.  $\text{Int}[(a_.) + (b_.)*\text{Sin}[u_]^(p_.), x\_Symbol] \rightarrow \text{Int}[(a + b*\text{Sin}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
3855.  $\text{Int}[(a_.) + \text{Cos}[u_]*(b_.)]^(p_.), x\_Symbol] \rightarrow \text{Int}[(a + b*\text{Cos}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
3856.  $\text{Int}[\text{Sin}[(d_.)*(x_)^(n_.)]/(x_), x\_Symbol] \rightarrow \text{Simp}[\text{SinIntegral}[d*x^n]/n, x] /; \text{FreeQ}\{d, n\}, x]$
3857.  $\text{Int}[\text{Cos}[(d_.)*(x_)^(n_.)]/(x_), x\_Symbol] \rightarrow \text{Simp}[\text{CosIntegral}[d*x^n]/n, x] /; \text{FreeQ}\{d, n\}, x]$
3858.  $\text{Int}[\text{Sin}[(c_) + (d_.)*(x_)^(n_.)]/(x_), x\_Symbol] \rightarrow \text{Simp}[\text{Sin}[c] \text{Int}[\text{Cos}[d*x^n]/x, x], x] + \text{Simp}[\text{Cos}[c] \text{Int}[\text{Sin}[d*x^n]/x, x], x] /; \text{FreeQ}\{c, d, n\}, x]$
3859.  $\text{Int}[\text{Cos}[(c_) + (d_.)*(x_)^(n_.)]/(x_), x\_Symbol] \rightarrow \text{Simp}[\text{Cos}[c] \text{Int}[\text{Cos}[d*x^n]/x, x], x] - \text{Simp}[\text{Sin}[c] \text{Int}[\text{Sin}[d*x^n]/x, x], x] /; \text{FreeQ}\{c, d, n\}, x]$
3860.  $\text{Int}[(x_)^(m_.)*((a_.) + (b_.)*\text{Sin}[(c_.) + (d_.)*(x_)^(n_.)]^(p_.), x\_Symbol] \rightarrow \text{Simp}[1/n \text{Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n] - 1)*(a + b*\text{Sin}[c + d*x])^p}, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]] \&\& (\text{EqQ}[p, 1] \|\| \text{EqQ}[m, n - 1] \|\| (\text{IntegerQ}[p] \&\& \text{GtQ}[\text{Simplify}[(m + 1)/n], 0]))$

3861.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.)(x_)^{(n_.)}](b_.)]^{(p_.)}(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n) - 1}(a + b\text{Cos}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]] \&\& (\text{EqQ}[p, 1] \|\| \text{EqQ}[m, n - 1] \|\| (\text{IntegerQ}[p] \&\& \text{GtQ}[\text{Simplify}[(m + 1)/n], 0]))$
3862.  $\text{Int}[(e_)(x_)^{(m_)}((a_.) + (b_.)\text{Sin}[(c_.) + (d_.)(x_)^{(n_.)}])]^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m(a + b\text{Sin}[c + d*x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
3863.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.)(x_)^{(n_.)}](b_.)]^{(p_.)}(e_)(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m(a + b\text{Cos}[c + d*x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
3864.  $\text{Int}[(x_)^{(m_.)}\text{Sin}[(a_.) + (b_.)(x_)^{(n_.)}], x\_Symbol] \rightarrow \text{Simp}[2/n \text{ Subst}[\text{Int}[\text{Sin}[a + b*x^2], x], x, x^{(n/2)}], x] /; \text{FreeQ}\{a, b, m, n\}, x] \&\& \text{EqQ}[m, n/2 - 1]$
3865.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)^{(n_.)}](x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[2/n \text{ Subst}[\text{Int}[\text{Cos}[a + b*x^2], x], x, x^{(n/2)}], x] /; \text{FreeQ}\{a, b, m, n\}, x] \&\& \text{EqQ}[m, n/2 - 1]$
3866.  $\text{Int}[(e_)(x_)^{(m_.)}\text{Sin}[(c_.) + (d_.)(x_)^{(n_.)}], x\_Symbol] \rightarrow \text{Simp}[(-e^{(n - 1)})(e*x)^{(m - n + 1)}(\text{Cos}[c + d*x^n]/(d*n)), x] + \text{Simp}[e^n*((m - n + 1)/(d*n)) \text{Int}[(e*x)^{(m - n)}\text{Cos}[c + d*x^n], x], x] /; \text{FreeQ}\{c, d, e\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[n, m + 1]$
3867.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_)^{(n_.)}](e_)(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[e^{(n - 1)}(e*x)^{(m - n + 1)}(\text{Sin}[c + d*x^n]/(d*n)), x] - \text{Simp}[e^n*((m - n + 1)/(d*n)) \text{Int}[(e*x)^{(m - n)}\text{Sin}[c + d*x^n], x], x] /; \text{FreeQ}\{c, d, e\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[n, m + 1]$
3868.  $\text{Int}[(e_)(x_)^{(m_.)}\text{Sin}[(c_.) + (d_.)(x_)^{(n_.)}], x\_Symbol] \rightarrow \text{Simp}[(e*x)^{(m + 1)}(\text{Sin}[c + d*x^n]/(e*(m + 1))), x] - \text{Simp}[d*(n/(e^n*(m + 1))$

- ))) Int[(e\*x)^(m + n)\*Cos[c + d\*x^n], x], x] /; FreeQ[{c, d, e}, x] && IGtQ[n, 0] && LtQ[m, -1]
3869. Int[Cos[(c\_.) + (d\_.)\*(x\_)^(n\_)]\*((e\_.)\*(x\_))^(m\_), x\_Symbol] := Simp[(e\*x)^(m + 1)\*(Cos[c + d\*x^n]/(e\*(m + 1))), x] + Simp[d\*(n/(e^n\*(m + 1)))] Int[(e\*x)^(m + n)\*Sin[c + d\*x^n], x], x] /; FreeQ[{c, d, e}, x] && IGtQ[n, 0] && LtQ[m, -1]
3870. Int[((e\_.)\*(x\_))^(m\_.)\*Sin[(c\_.) + (d\_.)\*(x\_)^(n\_)], x\_Symbol] := Simp[I/2 Int[(e\*x)^m\*E^((-c)\*I - d\*I\*x^n), x], x] - Simp[I/2 Int[(e\*x)^m\*E^(c\*I + d\*I\*x^n), x], x] /; FreeQ[{c, d, e, m}, x] && IGtQ[n, 0]
3871. Int[Cos[(c\_.) + (d\_.)\*(x\_)^(n\_)]\*((e\_.)\*(x\_))^(m\_.), x\_Symbol] := Simp[1/2 Int[(e\*x)^m\*E^((-c)\*I - d\*I\*x^n), x], x] + Simp[1/2 Int[(e\*x)^m\*E^(c\*I + d\*I\*x^n), x], x] /; FreeQ[{c, d, e, m}, x] && IGtQ[n, 0]
3872. Int[(x\_)^(m\_.)\*Sin[(a\_.) + ((b\_.)\*(x\_)^(n\_))/2]^2, x\_Symbol] := Simp[1/2 Int[x^m, x], x] - Simp[1/2 Int[x^m\*Cos[2\*a + b\*x^n], x], x] /; FreeQ[{a, b, m, n}, x]
3873. Int[Cos[(a\_.) + ((b\_.)\*(x\_)^(n\_))/2]^2\*(x\_)^(m\_.), x\_Symbol] := Simp[1/2 Int[x^m, x], x] + Simp[1/2 Int[x^m\*Cos[2\*a + b\*x^n], x], x] /; FreeQ[{a, b, m, n}, x]
3874. Int[(x\_)^(m\_.)\*Sin[(a\_.) + (b\_.)\*(x\_)^(n\_)]^(p\_), x\_Symbol] := Simp[x^(m + 1)\*(Sin[a + b\*x^n]^p/(m + 1)), x] - Simp[b\*n\*(p/(m + 1)) Int[Sin[a + b\*x^n]^(p - 1)\*Cos[a + b\*x^n], x], x] /; FreeQ[{a, b}, x] && IGtQ[p, 1] && EqQ[m + n, 0] && NeQ[n, 1] && IntegerQ[n]
3875. Int[Cos[(a\_.) + (b\_.)\*(x\_)^(n\_)]^(p\_)\*(x\_)^(m\_.), x\_Symbol] := Simp[x^(m + 1)\*(Cos[a + b\*x^n]^p/(m + 1)), x] + Simp[b\*n\*(p/(m + 1)) Int[Cos[a + b\*x^n]^(p - 1)\*Sin[a + b\*x^n], x], x] /; FreeQ[{a, b}, x] && IGtQ[p, 1] && EqQ[m + n, 0] && NeQ[n, 1] && IntegerQ[n]
3876. Int[(x\_)^(m\_.)\*Sin[(a\_.) + (b\_.)\*(x\_)^(n\_)]^(p\_), x\_Symbol] := Simp[n\*(Sin[a + b\*x^n]^p/(b^2\*n^2\*p^2)), x] + (-Simp[x^n\*Cos[a + b\*x^n]\*(Sin[

$$a + b*x^n)^{(p-1)/(b*n*p)}, x] + \text{Simp}[(p-1)/p \text{ Int}[x^m*\text{Sin}[a + b*x^n]^{(p-2)}, x], x] /; \text{FreeQ}[\{a, b, m, n\}, x] \&\& \text{EqQ}[m - 2*n + 1, 0] \&\& \text{GtQ}[p, 1]$$

3877.  $\text{Int}[\text{Cos}[(a_.) + (b_.)*(x_)^(n_)]^(p_)*(x_)^(m_.), x\_Symbol] \rightarrow \text{Simp}[n*(\text{Cos}[a + b*x^n]^p/(b^2*n^2*p^2)), x] + (\text{Simp}[x^n*\text{Sin}[a + b*x^n]*(\text{Cos}[a + b*x^n]^{(p-1)/(b*n*p)}), x] + \text{Simp}[(p-1)/p \text{ Int}[x^m*\text{Cos}[a + b*x^n]^{(p-2)}, x], x]) /; \text{FreeQ}[\{a, b, m, n\}, x] \&\& \text{EqQ}[m - 2*n + 1, 0] \&\& \text{GtQ}[p, 1]$

3878.  $\text{Int}[(x_)^(m_.)*\text{Sin}[(a_.) + (b_.)*(x_)^(n_)]^(p_), x\_Symbol] \rightarrow \text{Simp}[(m - n + 1)*x^{(m-2*n+1)}*(\text{Sin}[a + b*x^n]^p/(b^2*n^2*p^2)), x] + (-\text{Simp}[x^{(m-n+1)}*\text{Cos}[a + b*x^n]*(\text{Sin}[a + b*x^n]^{(p-1)/(b*n*p)}), x] + \text{Simp}[(p-1)/p \text{ Int}[x^m*\text{Sin}[a + b*x^n]^{(p-2)}, x], x] - \text{Simp}[(m-n+1)*((m-2*n+1)/(b^2*n^2*p^2)) \text{ Int}[x^{(m-2*n)}*\text{Sin}[a + b*x^n]^p, x], x]) /; \text{FreeQ}[\{a, b\}, x] \&\& \text{GtQ}[p, 1] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[m, 2*n - 1]$

3879.  $\text{Int}[\text{Cos}[(a_.) + (b_.)*(x_)^(n_)]^(p_)*(x_)^(m_.), x\_Symbol] \rightarrow \text{Simp}[(m - n + 1)*x^{(m-2*n+1)}*(\text{Cos}[a + b*x^n]^p/(b^2*n^2*p^2)), x] + (\text{Simp}[x^{(m-n+1)}*\text{Sin}[a + b*x^n]*(\text{Cos}[a + b*x^n]^{(p-1)/(b*n*p)}), x] + \text{Simp}[(p-1)/p \text{ Int}[x^m*\text{Cos}[a + b*x^n]^{(p-2)}, x], x] - \text{Simp}[(m-n+1)*((m-2*n+1)/(b^2*n^2*p^2)) \text{ Int}[x^{(m-2*n)}*\text{Cos}[a + b*x^n]^p, x], x]) /; \text{FreeQ}[\{a, b\}, x] \&\& \text{GtQ}[p, 1] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[m, 2*n - 1]$

3880.  $\text{Int}[(x_)^(m_.)*\text{Sin}[(a_.) + (b_.)*(x_)^(n_)]^(p_), x\_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*(\text{Sin}[a + b*x^n]^p/(m+1)), x] + (-\text{Simp}[b*n*p*x^{(m+n+1)}*\text{Cos}[a + b*x^n]*(\text{Sin}[a + b*x^n]^{(p-1)/((m+1)*(m+n+1))}), x] + \text{Simp}[b^2*n^2*p*((p-1)/((m+1)*(m+n+1))) \text{ Int}[x^{(m+2*n)}*\text{Sin}[a + b*x^n]^{(p-2)}, x], x] - \text{Simp}[b^2*n^2*(p^2/((m+1)*(m+n+1))) \text{ Int}[x^{(m+2*n)}*\text{Sin}[a + b*x^n]^p, x], x]) /; \text{FreeQ}[\{a, b\}, x] \&\& \text{GtQ}[p, 1] \&\& \text{IGtQ}[n, 0] \&\& \text{ILtQ}[m, -2*n + 1] \&\& \text{NeQ}[m + n + 1, 0]$

3881.  $\text{Int}[\text{Cos}[(a_.) + (b_.)*(x_)^(n_)]^(p_)*(x_)^(m_.), x\_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*(\text{Cos}[a + b*x^n]^p/(m+1)), x] + (\text{Simp}[b*n*p*x^{(m+n+1)}*\text{Sin}[a + b*x^n]*(\text{Cos}[a + b*x^n]^{(p-1)/((m+1)*(m+n+1))}), x] + \text{Simp}[\$

- $$b^2 n^2 p \left( \frac{p-1}{(m+1)(m+n+1)} \right) \text{Int}[x^{(m+2n)} \text{Cos}[a + b x^n]^{(p-2)}, x], x] - \text{Simp}[b^2 n^2 p \left( \frac{p^2}{(m+1)(m+n+1)} \right) \text{Int}[x^{(m+2n)} \text{Cos}[a + b x^n]^p, x], x] /;$$

$$\text{FreeQ}\{a, b, x\} \ \&\& \ \text{GtQ}\{p, 1\} \ \&\& \ \text{IGtQ}\{n, 0\} \ \&\& \ \text{ILtQ}\{m, -2n+1\} \ \&\& \ \text{NeQ}\{m+n+1, 0\}$$
3882.  $\text{Int}[(e \cdot x)^m \cdot ((a \cdot x) + (b \cdot x) \cdot \text{Sin}[(c \cdot x) + (d \cdot x)^n])]^{(p \cdot x\_Symbol)} \rightarrow \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k/e \ \text{Subst}[\text{Int}[x^{(k(m+1)-1)} \cdot (a + b \cdot \text{Sin}[c + d \cdot (x^{(k \cdot n)}/e^n)]^p, x], x, (e \cdot x)^{(1/k)}], x]] /;$   $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{IntegerQ}\{p\} \ \&\& \ \text{IGtQ}\{n, 0\} \ \&\& \ \text{Fract ionQ}\{m\}$
3883.  $\text{Int}[(a \cdot x) + \text{Cos}[(c \cdot x) + (d \cdot x)^n] \cdot (b \cdot x)]^{(p \cdot x\_Symbol)} \cdot ((e \cdot x)^m)^{(x\_Symbol)} \rightarrow \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k/e \ \text{Subst}[\text{Int}[x^{(k(m+1)-1)} \cdot (a + b \cdot \text{Cos}[c + d \cdot (x^{(k \cdot n)}/e^n)]^p, x], x, (e \cdot x)^{(1/k)}], x]] /;$   $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{IntegerQ}\{p\} \ \&\& \ \text{IGtQ}\{n, 0\} \ \&\& \ \text{Fract ionQ}\{m\}$
3884.  $\text{Int}[(e \cdot x)^m \cdot ((a \cdot x) + (b \cdot x) \cdot \text{Sin}[(c \cdot x) + (d \cdot x)^n])]^{(p \cdot x\_Symbol)} \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e \cdot x)^m, (a + b \cdot \text{Sin}[c + d \cdot x^n])^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, x\} \ \&\& \ \text{IGtQ}\{p, 1\} \ \&\& \ \text{IGtQ}\{n, 0\}$
3885.  $\text{Int}[(a \cdot x) + \text{Cos}[(c \cdot x) + (d \cdot x)^n] \cdot (b \cdot x)]^{(p \cdot x\_Symbol)} \cdot ((e \cdot x)^m)^{(x\_Symbol)} \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e \cdot x)^m, (a + b \cdot \text{Cos}[c + d \cdot x^n])^p, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, x\} \ \&\& \ \text{IGtQ}\{p, 1\} \ \&\& \ \text{IGtQ}\{n, 0\}$
3886.  $\text{Int}[(x)^m \cdot \text{Sin}[(a \cdot x) + (b \cdot x)^n]^{(p \cdot x\_Symbol)} \rightarrow \text{Simp}[x^n \cdot \text{Cos}[a + b \cdot x^n] \cdot (\text{Sin}[a + b \cdot x^n]^{(p+1)} / (b \cdot n \cdot (p+1))), x] + (-\text{Simp}[n \cdot (\text{Sin}[a + b \cdot x^n]^{(p+2)} / (b^2 \cdot n^2 \cdot (p+1) \cdot (p+2))), x] + \text{Simp}[(p+2) / (p+1) \ \text{Int}[x^m \cdot \text{Sin}[a + b \cdot x^n]^{(p+2)}, x], x]) /;$   $\text{FreeQ}\{a, b, m, n, x\} \ \&\& \ \text{EqQ}\{m - 2n + 1, 0\} \ \&\& \ \text{LtQ}\{p, -1\} \ \&\& \ \text{NeQ}\{p, -2\}$
3887.  $\text{Int}[\text{Cos}[(a \cdot x) + (b \cdot x)^n]^{(p \cdot x\_Symbol)} \cdot (x)^m, x\_Symbol] \rightarrow \text{Simp}[(-x^n) \cdot \text{Sin}[a + b \cdot x^n] \cdot (\text{Cos}[a + b \cdot x^n]^{(p+1)} / (b \cdot n \cdot (p+1))), x] + (-\text{Simp}[n \cdot (\text{Cos}[a + b \cdot x^n]^{(p+2)} / (b^2 \cdot n^2 \cdot (p+1) \cdot (p+2))), x] + \text{Simp}[(p+2) / (p+1) \ \text{Int}[x^m \cdot \text{Cos}[a + b \cdot x^n]^{(p+2)}, x], x]) /;$   $\text{FreeQ}\{a, b, m, n, x\} \ \&\& \ \text{EqQ}\{m - 2n + 1, 0\} \ \&\& \ \text{LtQ}\{p, -1\} \ \&\& \ \text{NeQ}\{p, -2\}$

3888.  $\text{Int}[(x_)^{(m_.)} \cdot \text{Sin}[(a_.) + (b_.) \cdot (x_)^{(n_.)}]^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m-n+1)} \cdot \text{Cos}[a + b \cdot x^n] \cdot (\text{Sin}[a + b \cdot x^n]^{(p+1)} / (b \cdot n \cdot (p+1))), x] + (-\text{Simp}[(m-n+1) \cdot x^{(m-2n+1)} \cdot (\text{Sin}[a + b \cdot x^n]^{(p+2)} / (b^2 \cdot n^2 \cdot (p+1) \cdot (p+2))), x] + \text{Simp}[(p+2)/(p+1) \text{ Int}[x^m \cdot \text{Sin}[a + b \cdot x^n]^{(p+2)}, x], x] + \text{Simp}[(m-n+1) \cdot ((m-2n+1)/(b^2 \cdot n^2 \cdot (p+1) \cdot (p+2))) \text{ Int}[x^{(m-2n)} \cdot \text{Sin}[a + b \cdot x^n]^{(p+2)}, x], x)] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[m, 2n-1]$
3889.  $\text{Int}[\text{Cos}[(a_.) + (b_.) \cdot (x_)^{(n_.)}]^{(p_.)} \cdot (x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(-x^{(m-n+1)}) \cdot \text{Sin}[a + b \cdot x^n] \cdot (\text{Cos}[a + b \cdot x^n]^{(p+1)} / (b \cdot n \cdot (p+1))), x] + (-\text{Simp}[(m-n+1) \cdot x^{(m-2n+1)} \cdot (\text{Cos}[a + b \cdot x^n]^{(p+2)} / (b^2 \cdot n^2 \cdot (p+1) \cdot (p+2))), x] + \text{Simp}[(p+2)/(p+1) \text{ Int}[x^m \cdot \text{Cos}[a + b \cdot x^n]^{(p+2)}, x], x] + \text{Simp}[(m-n+1) \cdot ((m-2n+1)/(b^2 \cdot n^2 \cdot (p+1) \cdot (p+2))) \text{ Int}[x^{(m-2n)} \cdot \text{Cos}[a + b \cdot x^n]^{(p+2)}, x], x)] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[m, 2n-1]$
3890.  $\text{Int}[(x_)^{(m_.)} \cdot ((a_.) + (b_.) \cdot \text{Sin}[(c_.) + (d_.) \cdot (x_)^{(n_.)}])^{(p_.)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b \cdot \text{Sin}[c + d/x^n])^p / x^{(m+2)}, x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{IntegerQ}[m] \&\& \text{EqQ}[n, -2]$
3891.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.) \cdot (x_)^{(n_.)}] \cdot (b_.)]^{(p_.)} \cdot (x_)^{(m_.)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b \cdot \text{Cos}[c + d/x^n])^p / x^{(m+2)}, x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{IntegerQ}[m] \&\& \text{EqQ}[n, -2]$
3892.  $\text{Int}[(e_.) \cdot (x_)^{(m_.)} \cdot ((a_.) + (b_.) \cdot \text{Sin}[(c_.) + (d_.) \cdot (x_)^{(n_.)}])^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[-k/e \text{ Subst}[\text{Int}[(a + b \cdot \text{Sin}[c + d/(e^n \cdot x^{(k \cdot n)})])^p / x^{(k \cdot (m+1) + 1)}, x], x, 1/(e \cdot x)^{(1/k)}], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{FractionQ}[m]$
3893.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.) \cdot (x_)^{(n_.)}] \cdot (b_.)]^{(p_.)} \cdot (e_.) \cdot (x_)^{(m_.)}, x\_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[-k/e \text{ Subst}[\text{Int}[(a + b \cdot \text{Cos}[c + d/(e^n \cdot x^{(k \cdot n)})])^p / x^{(k \cdot (m+1) + 1)}, x], x, 1/(e \cdot x)^{(1/k)}], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{Fra}$

ctionQ[m]

3894.  $\text{Int}[(e \cdot x)^m \cdot ((a \cdot x) + (b \cdot \sin[c \cdot x] + (d \cdot x)^n))^p]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[(-e \cdot x)^m \cdot (x^{-1})^m \cdot \text{Subst}[\text{Int}[(a + b \cdot \sin[c + d/x^n])^p/x^{m+2}], x, 1/x], x]$  /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[p, 0] && ILtQ[n, 0] && !RationalQ[m]
3895.  $\text{Int}[(a \cdot x) + \cos[c \cdot x] + (d \cdot x)^n] \cdot (b \cdot x)^p \cdot (e \cdot x)^m$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[(-e \cdot x)^m \cdot (x^{-1})^m \cdot \text{Subst}[\text{Int}[(a + b \cdot \cos[c + d/x^n])^p/x^{m+2}], x, 1/x], x]$  /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[p, 0] && ILtQ[n, 0] && !RationalQ[m]
3896.  $\text{Int}[(x)^m \cdot ((a \cdot x) + (b \cdot \sin[c \cdot x] + (d \cdot x)^n))^p]$ , x\_Symbol]  $\rightarrow$   $\text{Module}[\{k = \text{Denominator}[n]\}, \text{Simp}[k \cdot \text{Subst}[\text{Int}[x^{k \cdot (m+1) - 1} \cdot (a + b \cdot \sin[c + d \cdot x^{k \cdot n}])^p], x, x^{1/k}], x]]$  /; FreeQ[{a, b, c, d, m}, x] && IntegerQ[p] && FractionQ[n]
3897.  $\text{Int}[(a \cdot x) + \cos[c \cdot x] + (d \cdot x)^n] \cdot (b \cdot x)^p \cdot (x)^m$ , x\_Symbol]  $\rightarrow$   $\text{Module}[\{k = \text{Denominator}[n]\}, \text{Simp}[k \cdot \text{Subst}[\text{Int}[x^{k \cdot (m+1) - 1} \cdot (a + b \cdot \cos[c + d \cdot x^{k \cdot n}])^p], x, x^{1/k}], x]]$  /; FreeQ[{a, b, c, d, m}, x] && IntegerQ[p] && FractionQ[n]
3898.  $\text{Int}[(e \cdot x)^m \cdot ((a \cdot x) + (b \cdot \sin[c \cdot x] + (d \cdot x)^n))^p]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[e^{\text{IntPart}[m]} \cdot ((e \cdot x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \cdot \text{Int}[x^m \cdot (a + b \cdot \sin[c + d \cdot x^n])^p], x]$  /; FreeQ[{a, b, c, d, e, m}, x] && IntegerQ[p] && FractionQ[n]
3899.  $\text{Int}[(a \cdot x) + \cos[c \cdot x] + (d \cdot x)^n] \cdot (b \cdot x)^p \cdot (e \cdot x)^m$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[e^{\text{IntPart}[m]} \cdot ((e \cdot x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \cdot \text{Int}[x^m \cdot (a + b \cdot \cos[c + d \cdot x^n])^p], x]$  /; FreeQ[{a, b, c, d, e, m}, x] && IntegerQ[p] && FractionQ[n]
3900.  $\text{Int}[(x)^m \cdot ((a \cdot x) + (b \cdot \sin[c \cdot x] + (d \cdot x)^n))^p]$ , x\_Symbol]  $\rightarrow$   $\text{Simp}[1/(m+1) \cdot \text{Subst}[\text{Int}[(a + b \cdot \sin[c + d \cdot x^{\text{Simplify}[n/(m+1)])])^p], x, x^{m+1}], x]$  /; FreeQ[{a, b, c, d, m, n}, x] && IntegerQ[p] && NeQ[m, -1] && IGtQ[Simplify[n/(m+1)], 0] && !IntegerQ

n]

3901. `Int[((a_.) + Cos[(c_.) + (d_.)*(x_)^(n_)])*(b_.)^(p_.)*(x_)^(m_.), x_Symbol] := Simp[1/(m + 1) Subst[Int[(a + b*Cos[c + d*x^Simplify[n/(m + 1)])]^p, x], x, x^(m + 1)], x] /; FreeQ[{a, b, c, d, m, n}, x] && IntegerQ[p] && NeQ[m, -1] && IGtQ[Simplify[n/(m + 1)], 0] && !IntegerQ[n]`
3902. `Int[((e_)*(x_)^(m_))*((a_.) + (b_.)*Sin[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x_Symbol] := Simp[e^IntPart[m]*((e*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a + b*Sin[c + d*x^n])^p, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && IntegerQ[p] && NeQ[m, -1] && IGtQ[Simplify[n/(m + 1)], 0] && !IntegerQ[n]`
3903. `Int[((a_.) + Cos[(c_.) + (d_.)*(x_)^(n_)])*(b_.)^(p_.)*((e_)*(x_)^(m_.), x_Symbol] := Simp[e^IntPart[m]*((e*x)^FracPart[m]/x^FracPart[m]) Int[x^m*(a + b*Cos[c + d*x^n])^p, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && IntegerQ[p] && NeQ[m, -1] && IGtQ[Simplify[n/(m + 1)], 0] && !IntegerQ[n]`
3904. `Int[((e_.)*(x_)^(m_.)*Sin[(c_.) + (d_.)*(x_)^(n_)], x_Symbol] := Simp[I/2 Int[(e*x)^m*E^((-c)*I - d*I*x^n), x], x] - Simp[I/2 Int[(e*x)^m*E^(c*I + d*I*x^n), x], x] /; FreeQ[{c, d, e, m, n}, x]`
3905. `Int[Cos[(c_.) + (d_.)*(x_)^(n_)]*((e_.)*(x_)^(m_.), x_Symbol] := Simp[1/2 Int[(e*x)^m*E^((-c)*I - d*I*x^n), x], x] + Simp[1/2 Int[(e*x)^m*E^(c*I + d*I*x^n), x], x] /; FreeQ[{c, d, e, m, n}, x]`
3906. `Int[((e_.)*(x_)^(m_.))*((a_.) + (b_.)*Sin[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x_Symbol] := Int[ExpandTrigReduce[(e*x)^m, (a + b*Sin[c + d*x^n])^p, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && IGtQ[p, 0]`
3907. `Int[((a_.) + Cos[(c_.) + (d_.)*(x_)^(n_)])*(b_.)^(p_.)*((e_.)*(x_)^(m_.), x_Symbol] := Int[ExpandTrigReduce[(e*x)^m, (a + b*Cos[c + d*x^n])^p, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && IGtQ[p, 0]`



3908.  $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot \sin[c + d \cdot x^n])^p, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, m, n, p\}, x]$   $\rightarrow$   $\text{Unintegrable}[(e \cdot x)^m \cdot (a + b \cdot \sin[c + d \cdot x^n])^p, x]$  /;
3909.  $\text{Int}[(a + \cos[c + d \cdot x^n]) \cdot (e \cdot x)^m \cdot (b)^p, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, m, n, p\}, x]$   $\rightarrow$   $\text{Unintegrable}[(e \cdot x)^m \cdot (a + b \cdot \cos[c + d \cdot x^n])^p, x]$  /;
3910.  $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot \sin[u])^p, x]$  /;  $\text{FreeQ}\{a, b, e, m, p\}, x]$  &&  $\text{BinomialQ}[u, x]$  &&  $\text{!BinomialMatchQ}[u, x]$   $\rightarrow$   $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot \sin[\text{ExpandToSum}[u, x]])^p, x]$  /;
3911.  $\text{Int}[(a + \cos[u]) \cdot (e \cdot x)^m \cdot (b)^p, x]$  /;  $\text{FreeQ}\{a, b, e, m, p\}, x]$  &&  $\text{BinomialQ}[u, x]$  &&  $\text{!BinomialMatchQ}[u, x]$   $\rightarrow$   $\text{Int}[(e \cdot x)^m \cdot (a + b \cdot \cos[\text{ExpandToSum}[u, x]])^p, x]$  /;
3912.  $\text{Int}[(g + h \cdot x)^m \cdot (a + b \cdot \sin[c + d \cdot x^n] + (e \cdot x)^n + f \cdot x^n)^p, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, g, h, m\}, x]$  &&  $\text{IGtQ}[p, 0]$  &&  $\text{IntegerQ}[1/n]$   $\rightarrow$   $\text{Simp}[1/(n \cdot f) \text{ Subst}[\text{Int}[\text{ExpandIntegrand}[(a + b \cdot \sin[c + d \cdot x^n])^p, x^{(1/n - 1)} \cdot (g - e \cdot (h/f) + h \cdot (x^{(1/n)/f})^m], x], x, (e + f \cdot x)^n], x]$  /;
3913.  $\text{Int}[(a + \cos[c + d \cdot x^n]) \cdot (e + f \cdot x)^m \cdot (b)^p \cdot (g + h \cdot x)^m, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, g, h, m\}, x]$  &&  $\text{IGtQ}[p, 0]$  &&  $\text{IntegerQ}[1/n]$   $\rightarrow$   $\text{Simp}[1/(n \cdot f) \text{ Subst}[\text{Int}[\text{ExpandIntegrand}[(a + b \cdot \cos[c + d \cdot x^n])^p, x^{(1/n - 1)} \cdot (g - e \cdot (h/f) + h \cdot (x^{(1/n)/f})^m], x], x, (e + f \cdot x)^n], x]$  /;
3914.  $\text{Int}[(g + h \cdot x)^m \cdot (a + b \cdot \sin[c + d \cdot x^n] + (e \cdot x)^n + f \cdot x^n)^p, x]$  /;  $\text{FreeQ}\{a, b, c, d, e, f, g, h\}, x]$  &&  $\text{IGtQ}[p, 0]$  &&  $\text{IGtQ}[m, 0]$   $\rightarrow$   $\text{Module}\{k = \text{If}[\text{FractionQ}[n], \text{Denominator}[n], 1]\}, \text{Simp}[k/f^{(m + 1)} \text{ Subst}[\text{Int}[\text{ExpandIntegrand}[(a + b \cdot \sin[c + d \cdot x^{(k \cdot n)}])^p, x^{(k - 1)} \cdot (f \cdot g - e \cdot h + h \cdot x^k)^m], x], x, (e + f \cdot x)^{(1/k)}], x]$  /;

3915.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.)((e_.) + (f_.)(x_))^{(n_)}] * (b_.))^{(p_.)} * ((g_.) + (h_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Module}[\{k = \text{If}[\text{FractionQ}[n], \text{Denominator}[n], 1]\}, \text{Simp}[k/f^{(m+1)} \text{Subst}[\text{Int}[\text{ExpandIntegrand}[(a + b*\text{Cos}[c + d*x^{(k*n)}])^{(p)}, x^{(k-1)}*(f*g - e*h + h*x^{(k)})^m, x], x], x, (e + f*x)^{(1/k)}], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[m, 0]$
3916.  $\text{Int}[(g_.) + (h_.)(x_))^{(m_.)} * ((a_.) + (b_.)*\text{Sin}[(c_.) + (d_.)((e_.) + (f_.)(x_))^{(n_)}])^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/f \text{Subst}[\text{Int}[(h*(x/f))^{(m)}*(a + b*\text{Sin}[c + d*x^n])^{(p)}, x], x, e + f*x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[f*g - e*h, 0]$
3917.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.)((e_.) + (f_.)(x_))^{(n_)}] * (b_.))^{(p_.)} * ((g_.) + (h_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/f \text{Subst}[\text{Int}[(h*(x/f))^{(m)}*(a + b*\text{Cos}[c + d*x^n])^{(p)}, x], x, e + f*x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[f*g - e*h, 0]$
3918.  $\text{Int}[(g_.) + (h_.)(x_))^{(m_.)} * ((a_.) + (b_.)*\text{Sin}[(c_.) + (d_.)((e_.) + (f_.)(x_))^{(n_)}])^{(p_.)}, x\_Symbol] \rightarrow \text{Unintegrable}[(g + h*x)^m * (a + b*\text{Sin}[c + d*(e + f*x)^n])^{(p)}, x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n, p\}, x]$
3919.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.)((e_.) + (f_.)(x_))^{(n_)}] * (b_.))^{(p_.)} * ((g_.) + (h_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Unintegrable}[(g + h*x)^m * (a + b*\text{Cos}[c + d*(e + f*x)^n])^{(p)}, x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n, p\}, x]$
3920.  $\text{Int}[(v_)^{(m_.)} * ((a_.) + (b_.)*\text{Sin}[(c_.) + (d_.)(u_)^{(n_)}])^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[v, x]^m * (a + b*\text{Sin}[c + d*\text{ExpandToSum}[u, x]^n])^{(p)}, x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{LinearQ}[v, x] \&\& \text{!(LinearMatchQ}[u, x] \&\& \text{LinearMatchQ}[v, x])]$
3921.  $\text{Int}[(a_.) + \text{Cos}[(c_.) + (d_.)(u_)^{(n_)}] * (b_.))^{(p_.)} * (v_)^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[v, x]^m * (a + b*\text{Cos}[c + d*\text{ExpandToSum}[u, x]^n])^{(p)}, x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{LinearQ}[v, x] \&\& \text{!(LinearMatchQ}[u, x] \&\& \text{LinearMatchQ}[v, x])]$

3922.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)^{(n_.)}] * (x_)^{(m_.)} * \text{Sin}[(a_.) + (b_.)(x_)^{(n_.)}]^{(p_.)}, x\_Symbol] \text{ :> } \text{Simp}[\text{Sin}[a + b*x^n]^{(p+1)} / (b*n*(p+1)), x] /; \text{FreeQ}[\{a, b, m, n, p\}, x] \ \&\& \ \text{EqQ}[m, n - 1] \ \&\& \ \text{NeQ}[p, -1]$
3923.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)^{(n_.)}]^{(p_.)} * (x_)^{(m_.)} * \text{Sin}[(a_.) + (b_.)(x_)^{(n_.)}], x\_Symbol] \text{ :> } \text{Simp}[-\text{Cos}[a + b*x^n]^{(p+1)} / (b*n*(p+1)), x] /; \text{FreeQ}[\{a, b, m, n, p\}, x] \ \&\& \ \text{EqQ}[m, n - 1] \ \&\& \ \text{NeQ}[p, -1]$
3924.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)^{(n_.)}] * (x_)^{(m_.)} * \text{Sin}[(a_.) + (b_.)(x_)^{(n_.)}]^{(p_.)}, x\_Symbol] \text{ :> } \text{Simp}[x^{(m-n+1)} * (\text{Sin}[a + b*x^n]^{(p+1)} / (b*n*(p+1))), x] - \text{Simp}[(m-n+1) / (b*n*(p+1)) \ \text{Int}[x^{(m-n)} * \text{Sin}[a + b*x^n]^{(p+1)}, x], x] /; \text{FreeQ}[\{a, b, p\}, x] \ \&\& \ \text{LtQ}[0, n, m + 1] \ \&\& \ \text{NeQ}[p, -1]$
3925.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)^{(n_.)}]^{(p_.)} * (x_)^{(m_.)} * \text{Sin}[(a_.) + (b_.)(x_)^{(n_.)}], x\_Symbol] \text{ :> } \text{Simp}[(-x^{(m-n+1)}) * (\text{Cos}[a + b*x^n]^{(p+1)} / (b*n*(p+1))), x] + \text{Simp}[(m-n+1) / (b*n*(p+1)) \ \text{Int}[x^{(m-n)} * \text{Cos}[a + b*x^n]^{(p+1)}, x], x] /; \text{FreeQ}[\{a, b, p\}, x] \ \&\& \ \text{LtQ}[0, n, m + 1] \ \&\& \ \text{NeQ}[p, -1]$
3926.  $\text{Int}[\text{Sin}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \text{ :> } \text{Int}[\text{Sin}[(b + 2*c*x)^2 / (4*c)], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[b^2 - 4*a*c, 0]$
3927.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \text{ :> } \text{Int}[\text{Cos}[(b + 2*c*x)^2 / (4*c)], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[b^2 - 4*a*c, 0]$
3928.  $\text{Int}[\text{Sin}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \text{ :> } \text{Simp}[\text{Cos}[(b^2 - 4*a*c) / (4*c)] \ \text{Int}[\text{Sin}[(b + 2*c*x)^2 / (4*c)], x], x] - \text{Simp}[\text{Sin}[(b^2 - 4*a*c) / (4*c)] \ \text{Int}[\text{Cos}[(b + 2*c*x)^2 / (4*c)], x], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0]$
3929.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \text{ :> } \text{Simp}[\text{Cos}[(b^2 - 4*a*c) / (4*c)] \ \text{Int}[\text{Cos}[(b + 2*c*x)^2 / (4*c)], x], x] + \text{Simp}[\text{Sin}[(b^2 - 4*a*c) / (4*c)] \ \text{Int}[\text{Sin}[(b + 2*c*x)^2 / (4*c)], x], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0]$

3930.  $\text{Int}[\text{Sin}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Sin}[a + b*x + c*x^2]^n, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{IGtQ}[n, 1]$
3931.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Cos}[a + b*x + c*x^2]^n, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{IGtQ}[n, 1]$
3932.  $\text{Int}[\text{Sin}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_.)}, x\_Symbol] \rightarrow \text{Unintegrateable}[\text{Sin}[a + b*x + c*x^2]^n, x] /; \text{FreeQ}[\{a, b, c, n\}, x]$
3933.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_.)}, x\_Symbol] \rightarrow \text{Unintegrateable}[\text{Cos}[a + b*x + c*x^2]^n, x] /; \text{FreeQ}[\{a, b, c, n\}, x]$
3934.  $\text{Int}[\text{Sin}[v_]^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{Sin}[\text{ExpandToSum}[v, x]]^n, x] /; \text{IGtQ}[n, 0] \&\& \text{QuadraticQ}[v, x] \&\& !\text{QuadraticMatchQ}[v, x]$
3935.  $\text{Int}[\text{Cos}[v_]^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{Cos}[\text{ExpandToSum}[v, x]]^n, x] /; \text{IGtQ}[n, 0] \&\& \text{QuadraticQ}[v, x] \&\& !\text{QuadraticMatchQ}[v, x]$
3936.  $\text{Int}[\text{((d_.) + (e_.)(x_))} * \text{Sin}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[(-e) * (\text{Cos}[a + b*x + c*x^2] / (2*c)), x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[2*c*d - b*e, 0]$
3937.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_) + (c_.)(x_)^2] * \text{((d_.) + (e_.)(x_))}, x\_Symbol] \rightarrow \text{Simp}[e * (\text{Sin}[a + b*x + c*x^2] / (2*c)), x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[2*c*d - b*e, 0]$
3938.  $\text{Int}[\text{((d_.) + (e_.)(x_))}^{(m_)} * \text{Sin}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[(-e) * (d + e*x)^{(m-1)} * (\text{Cos}[a + b*x + c*x^2] / (2*c)), x] + \text{Simp}[e^2 * ((m-1) / (2*c)) \text{Int}[(d + e*x)^{(m-2)} * \text{Cos}[a + b*x + c*x^2], x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[2*c*d - b*e, 0] \&\& \text{GtQ}[m, 1]$
3939.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_) + (c_.)(x_)^2] * \text{((d_.) + (e_.)(x_))}^{(m_)}, x\_Symbol] \rightarrow \text{Simp}[e * (d + e*x)^{(m-1)} * (\text{Sin}[a + b*x + c*x^2] / (2*c)), x]$

- Simp[e<sup>2</sup>((m - 1)/(2\*c)) Int[(d + e\*x)<sup>(m - 2)</sup>\*Sin[a + b\*x + c\*x<sup>2</sup>], x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2\*c\*d - b\*e, 0] && GtQ[m, 1]
3940. Int[((d\_.) + (e\_.)\*(x\_))<sup>(m\_)</sup>\*Sin[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)<sup>2</sup>], x\_Symbol] :> Simp[(d + e\*x)<sup>(m + 1)</sup>\*(Sin[a + b\*x + c\*x<sup>2</sup>]/(e\*(m + 1))), x] - Simp[2\*(c/(e<sup>2</sup>\*(m + 1))) Int[(d + e\*x)<sup>(m + 2)</sup>\*Cos[a + b\*x + c\*x<sup>2</sup>], x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2\*c\*d - b\*e, 0] && LtQ[m, -1]
3941. Int[Cos[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)<sup>2</sup>]\*((d\_.) + (e\_.)\*(x\_))<sup>(m\_)</sup>, x\_Symbol] :> Simp[(d + e\*x)<sup>(m + 1)</sup>\*(Cos[a + b\*x + c\*x<sup>2</sup>]/(e\*(m + 1))), x] + Simp[2\*(c/(e<sup>2</sup>\*(m + 1))) Int[(d + e\*x)<sup>(m + 2)</sup>\*Sin[a + b\*x + c\*x<sup>2</sup>], x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[2\*c\*d - b\*e, 0] && LtQ[m, -1]
3942. Int[((d\_.) + (e\_.)\*(x\_))\*Sin[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)<sup>2</sup>], x\_Symbol] :> Simp[(-e)\*(Cos[a + b\*x + c\*x<sup>2</sup>]/(2\*c)), x] + Simp[(2\*c\*d - b\*e)/(2\*c) Int[Sin[a + b\*x + c\*x<sup>2</sup>], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[2\*c\*d - b\*e, 0]
3943. Int[Cos[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)<sup>2</sup>]\*((d\_.) + (e\_.)\*(x\_)), x\_Symbol] :> Simp[e\*(Sin[a + b\*x + c\*x<sup>2</sup>]/(2\*c)), x] + Simp[(2\*c\*d - b\*e)/(2\*c) Int[Cos[a + b\*x + c\*x<sup>2</sup>], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[2\*c\*d - b\*e, 0]
3944. Int[((d\_.) + (e\_.)\*(x\_))<sup>(m\_)</sup>\*Sin[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)<sup>2</sup>], x\_Symbol] :> Simp[(-e)\*(d + e\*x)<sup>(m - 1)</sup>\*(Cos[a + b\*x + c\*x<sup>2</sup>]/(2\*c)), x] + (-Simp[(b\*e - 2\*c\*d)/(2\*c) Int[(d + e\*x)<sup>(m - 1)</sup>\*Sin[a + b\*x + c\*x<sup>2</sup>], x], x] + Simp[e<sup>2</sup>((m - 1)/(2\*c)) Int[(d + e\*x)<sup>(m - 2)</sup>\*Cos[a + b\*x + c\*x<sup>2</sup>], x], x]) /; FreeQ[{a, b, c, d, e}, x] && NeQ[b\*e - 2\*c\*d, 0] && GtQ[m, 1]
3945. Int[Cos[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)<sup>2</sup>]\*((d\_.) + (e\_.)\*(x\_))<sup>(m\_)</sup>, x\_Symbol] :> Simp[e\*(d + e\*x)<sup>(m - 1)</sup>\*(Sin[a + b\*x + c\*x<sup>2</sup>]/(2\*c)), x] + (-Simp[(b\*e - 2\*c\*d)/(2\*c) Int[(d + e\*x)<sup>(m - 1)</sup>\*Cos[a + b\*x + c\*x<sup>2</sup>], x], x] - Simp[e<sup>2</sup>((m - 1)/(2\*c)) Int[(d + e\*x)<sup>(m - 2)</sup>\*Sin[a

- $+ b*x + c*x^2], x], x]) /;$  FreeQ[{a, b, c, d, e}, x] && NeQ[b\*e - 2\*c\*d, 0] && GtQ[m, 1]
3946. Int[((d\_.) + (e\_.)\*(x\_))^(m\_)\*Sin[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2], x\_Symbol] :> Simp[(d + e\*x)^(m + 1)\*(Sin[a + b\*x + c\*x^2]/(e\*(m + 1))), x] + (-Simp[(b\*e - 2\*c\*d)/(e^2\*(m + 1)) Int[(d + e\*x)^(m + 1)\*Cos[a + b\*x + c\*x^2], x], x] - Simp[2\*(c/(e^2\*(m + 1))) Int[(d + e\*x)^(m + 2)\*Cos[a + b\*x + c\*x^2], x], x]) /; FreeQ[{a, b, c, d, e}, x] && NeQ[b\*e - 2\*c\*d, 0] && LtQ[m, -1]
3947. Int[Cos[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2]\*((d\_.) + (e\_.)\*(x\_))^(m\_), x\_Symbol] :> Simp[(d + e\*x)^(m + 1)\*(Cos[a + b\*x + c\*x^2]/(e\*(m + 1))), x] + (Simp[(b\*e - 2\*c\*d)/(e^2\*(m + 1)) Int[(d + e\*x)^(m + 1)\*Sin[a + b\*x + c\*x^2], x], x] + Simp[2\*(c/(e^2\*(m + 1))) Int[(d + e\*x)^(m + 2)\*Sin[a + b\*x + c\*x^2], x], x]) /; FreeQ[{a, b, c, d, e}, x] && NeQ[b\*e - 2\*c\*d, 0] && LtQ[m, -1]
3948. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*Sin[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2]^(n\_), x\_Symbol] :> Int[ExpandTrigReduce[(d + e\*x)^m, Sin[a + b\*x + c\*x^2]^n, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[n, 1]
3949. Int[Cos[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2]^(n\_.)\*((d\_.) + (e\_.)\*(x\_))^(m\_.), x\_Symbol] :> Int[ExpandTrigReduce[(d + e\*x)^m, Cos[a + b\*x + c\*x^2]^n, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[n, 1]
3950. Int[((d\_.) + (e\_.)\*(x\_))^(m\_.)\*Sin[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2]^(n\_.), x\_Symbol] :> Unintegrable[(d + e\*x)^m\*Ssin[a + b\*x + c\*x^2]^n, x] /; FreeQ[{a, b, c, d, e, m, n}, x]
3951. Int[Cos[(a\_.) + (b\_.)\*(x\_) + (c\_.)\*(x\_)^2]^(n\_.)\*((d\_.) + (e\_.)\*(x\_))^(m\_.), x\_Symbol] :> Unintegrable[(d + e\*x)^m\*Ccos[a + b\*x + c\*x^2]^n, x] /; FreeQ[{a, b, c, d, e, m, n}, x]
3952. Int[(u\_)^(m\_.)\*Sin[v\_]^(n\_.), x\_Symbol] :> Int[ExpandToSum[u, x]^m\*Ssin[ExpandToSum[v, x]^n, x] /; FreeQ[m, x] && IGtQ[n, 0] && LinearQ[u, x] && QuadraticQ[v, x] && !(LinearMatchQ[u, x] && QuadraticMatchQ[v, x]

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3953.  $\text{Int}[\text{Cos}[v\_ ]^{(n\_)} * (u\_ )^{(m\_)}, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m * \text{Cos}[\text{ExpandToSum}[v, x]^n, x] /; \text{FreeQ}[m, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{LinearQ}[u, x] \ \&\& \ \text{QuadraticQ}[v, x] \ \&\& \ !(\text{LinearMatchQ}[u, x] \ \&\& \ \text{QuadraticMatchQ}[v, x])]$
3954.  $\text{Int}[(b\_ ) * \tan[(c\_ ) + (d\_ ) * (x\_ )]]^{(n\_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[b * ((b * \text{Tan}[c + d * x])^{(n - 1)} / (d * (n - 1))), x] - \text{Simp}[b^2 \ \text{Int}[(b * \text{Tan}[c + d * x])^{(n - 2)}, x], x] /; \text{FreeQ}[\{b, c, d\}, x] \ \&\& \ \text{GtQ}[n, 1]$
3955.  $\text{Int}[(b\_ ) * \tan[(c\_ ) + (d\_ ) * (x\_ )]]^{(n\_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(b * \text{Tan}[c + d * x])^{(n + 1)} / (b * d * (n + 1)), x] - \text{Simp}[1 / b^2 \ \text{Int}[(b * \text{Tan}[c + d * x])^{(n + 2)}, x], x] /; \text{FreeQ}[\{b, c, d\}, x] \ \&\& \ \text{LtQ}[n, -1]$
3956.  $\text{Int}[\tan[(c\_ ) + (d\_ ) * (x\_ )], x\_ \text{Symbol}] \rightarrow \text{Simp}[-\text{Log}[\text{RemoveContent}[\text{Cos}[c + d * x], x]] / d, x] /; \text{FreeQ}[\{c, d\}, x]$
3957.  $\text{Int}[(b\_ ) * \tan[(c\_ ) + (d\_ ) * (x\_ )]]^{(n\_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[b / d \ \text{Subst}[\text{Int}[x^n / (b^2 + x^2), x], x, b * \text{Tan}[c + d * x]], x] /; \text{FreeQ}[\{b, c, d, n\}, x] \ \&\& \ !\text{IntegerQ}[n]$
3958.  $\text{Int}[(a\_ ) + (b\_ ) * \tan[(c\_ ) + (d\_ ) * (x\_ )]]^2, x\_ \text{Symbol}] \rightarrow \text{Simp}[(a^2 - b^2) * x, x] + (\text{Simp}[b^2 * (\text{Tan}[c + d * x] / d), x] + \text{Simp}[2 * a * b \ \text{Int}[\text{Tan}[c + d * x], x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x]$
3959.  $\text{Int}[(a\_ ) + (b\_ ) * \tan[(c\_ ) + (d\_ ) * (x\_ )]]^{(n\_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[b * ((a + b * \text{Tan}[c + d * x])^{(n - 1)} / (d * (n - 1))), x] + \text{Simp}[2 * a \ \text{Int}[(a + b * \text{Tan}[c + d * x])^{(n - 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{GtQ}[n, 1]$
3960.  $\text{Int}[(a\_ ) + (b\_ ) * \tan[(c\_ ) + (d\_ ) * (x\_ )]]^{(n\_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[a * ((a + b * \text{Tan}[c + d * x])^{(n)} / (2 * b * d * n)), x] + \text{Simp}[1 / (2 * a) \ \text{Int}[(a + b * \text{Tan}[c + d * x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{LtQ}[n, 0]$

3961.  $\text{Int}[\text{Sqrt}[(a_) + (b_)\cdot\tan[(c_) + (d_)\cdot(x_)]]], x\_Symbol] \rightarrow \text{Simp}[-2*(b/d) \text{ Subst}[\text{Int}[1/(2*a - x^2)], x], x, \text{Sqrt}[a + b*\text{Tan}[c + d*x]]], x] / ; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0]$
3962.  $\text{Int}[((a_) + (b_)\cdot\tan[(c_) + (d_)\cdot(x_)])^{(n_)}], x\_Symbol] \rightarrow \text{Simp}[-b/d \text{ Subst}[\text{Int}[(a + x)^{(n - 1)}/(a - x)], x], x, b*\text{Tan}[c + d*x]], x] / ; \text{FreeQ}[\{a, b, c, d, n\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0]$
3963.  $\text{Int}[((a_) + (b_)\cdot\tan[(c_) + (d_)\cdot(x_)])^{(n_)}], x\_Symbol] \rightarrow \text{Simp}[b*(a + b*\text{Tan}[c + d*x])^{(n - 1)}/(d*(n - 1)), x] + \text{Int}[(a^2 - b^2 + 2*a*b*\text{Tan}[c + d*x])*(a + b*\text{Tan}[c + d*x])^{(n - 2)}, x] / ; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ \text{GtQ}[n, 1]$
3964.  $\text{Int}[((a_) + (b_)\cdot\tan[(c_) + (d_)\cdot(x_)])^{(n_)}], x\_Symbol] \rightarrow \text{Simp}[b*(a + b*\text{Tan}[c + d*x])^{(n + 1)}/(d*(n + 1)*(a^2 + b^2)), x] + \text{Simp}[1/(a^2 + b^2) \text{ Int}[(a - b*\text{Tan}[c + d*x])*(a + b*\text{Tan}[c + d*x])^{(n + 1)}, x], x] / ; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ \text{LtQ}[n, -1]$
3965.  $\text{Int}[((a_) + (b_)\cdot\tan[(c_) + (d_)\cdot(x_)])^{(-1)}], x\_Symbol] \rightarrow \text{Simp}[a*(x/(a^2 + b^2)), x] + \text{Simp}[b/(a^2 + b^2) \text{ Int}[(b - a*\text{Tan}[c + d*x])/(a + b*\text{Tan}[c + d*x]), x], x] / ; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0]$
3966.  $\text{Int}[((a_) + (b_)\cdot\tan[(c_) + (d_)\cdot(x_)])^{(n_)}], x\_Symbol] \rightarrow \text{Simp}[b/d \text{ Subst}[\text{Int}[(a + x)^n/(b^2 + x^2)], x], x, b*\text{Tan}[c + d*x]], x] / ; \text{FreeQ}[\{a, b, c, d, n\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0]$
3967.  $\text{Int}[(d_)\cdot\text{sec}[(e_) + (f_)\cdot(x_)]^{(m_)}*((a_) + (b_)\cdot\tan[(e_) + (f_)\cdot(x_)]), x\_Symbol] \rightarrow \text{Simp}[b*((d*\text{Sec}[e + f*x])^m/(f*m)), x] + \text{Simp}[a \text{ Int}[(d*\text{Sec}[e + f*x])^m, x], x] / ; \text{FreeQ}[\{a, b, d, e, f, m\}, x] \ \&\& \ (\text{IntegerQ}[2*m] \ || \ \text{NeQ}[a^2 + b^2, 0])$
3968.  $\text{Int}[\text{sec}[(e_) + (f_)\cdot(x_)]^{(m_)}*((a_) + (b_)\cdot\tan[(e_) + (f_)\cdot(x_)]^{(n_)}], x\_Symbol] \rightarrow \text{Simp}[1/(a^{(m - 2)}*b*f) \text{ Subst}[\text{Int}[(a - x)^{(m/2 - 1)}*(a + x)^{(n + m/2 - 1)}, x], x, b*\text{Tan}[e + f*x]], x] / ; \text{FreeQ}[\{a, b, e, f, n\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{IntegerQ}[m/2]$



3969.  $\text{Int}[\left((d_{\cdot})\sec[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((a_{\cdot}) + (b_{\cdot})\tan[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{n_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b*(d*\text{Sec}[e + f*x])^m*((a + b*\text{Tan}[e + f*x])^n/(a*f*m)), x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{EqQ}[\text{Simplify}[m + n], 0]$
3970.  $\text{Int}[\sec[e_{\cdot}] + (f_{\cdot})(x_{\cdot})/\text{Sqrt}[(a_{\cdot}) + (b_{\cdot})\tan[e_{\cdot}] + (f_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[-2*(a/(b*f)) \ \text{Subst}[\text{Int}[1/(2 - a*x^2), x], x, \text{Sec}[e + f*x]/\text{Sqrt}[a + b*\text{Tan}[e + f*x]]], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0]$
3971.  $\text{Int}[\left((d_{\cdot})\sec[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((a_{\cdot}) + (b_{\cdot})\tan[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{n_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b*(d*\text{Sec}[e + f*x])^m*((a + b*\text{Tan}[e + f*x])^n/(a*f*m)), x] + \text{Simp}[a/(2*d^2) \ \text{Int}[(d*\text{Sec}[e + f*x])^{m+2}*(a + b*\text{Tan}[e + f*x])^{n-1}, x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{EqQ}[m/2 + n, 0] \ \&\& \ \text{GtQ}[n, 0]$
3972.  $\text{Int}[\left((d_{\cdot})\sec[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((a_{\cdot}) + (b_{\cdot})\tan[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{n_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[2*d^2*(d*\text{Sec}[e + f*x])^{m-2}*((a + b*\text{Tan}[e + f*x])^{n+1}/(b*f*(m-2))), x] + \text{Simp}[2*(d^2/a) \ \text{Int}[(d*\text{Sec}[e + f*x])^{m-2}*(a + b*\text{Tan}[e + f*x])^{n+1}, x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{EqQ}[m/2 + n, 0] \ \&\& \ \text{LtQ}[n, -1]$
3973.  $\text{Int}[\left((d_{\cdot})\sec[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((a_{\cdot}) + (b_{\cdot})\tan[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{n_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(a/d)^{(2*\text{IntPart}[n])}*(a + b*\text{Tan}[e + f*x])^{\text{FracPart}[n]}*((a - b*\text{Tan}[e + f*x])^{\text{FracPart}[n]}/(d*\text{Sec}[e + f*x])^{(2*\text{FracPart}[n])}) \ \text{Int}[1/(a - b*\text{Tan}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{EqQ}[\text{Simplify}[m/2 + n], 0]$
3974.  $\text{Int}[\left((d_{\cdot})\sec[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((a_{\cdot}) + (b_{\cdot})\tan[e_{\cdot}] + (f_{\cdot})(x_{\cdot})\right)^{n_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[2*b*(d*\text{Sec}[e + f*x])^m*((a + b*\text{Tan}[e + f*x])^{n-1}/(f*m)), x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{EqQ}[\text{Simplify}[m/2 + n - 1], 0]$

3975.  $\text{Int}[(d \cdot \sec(e) + f \cdot x)^m \cdot (a + b \cdot \tan(e) + f \cdot x)^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[b \cdot (d \cdot \sec[e + f \cdot x])^m \cdot (a + b \cdot \tan[e + f \cdot x])^{n-1} / (f \cdot (m + n - 1))], x] + \text{Simp}[a \cdot (m + 2 \cdot n - 2) / (m + n - 1) \text{ Int}[(d \cdot \sec[e + f \cdot x])^m \cdot (a + b \cdot \tan[e + f \cdot x])^{n-1}, x], x] /;$  FreeQ[{a, b, d, e, f, m, n}, x] && EqQ[a<sup>2</sup> + b<sup>2</sup>, 0] && IGtQ[Simplify[m/2 + n - 1], 0] && !IntegerQ[n]
3976.  $\text{Int}[\text{Sqrt}[d \cdot \sec(e) + f \cdot x] \cdot \text{Sqrt}[a + b \cdot \tan(e) + f \cdot x], x_{\text{Symbol}}] \rightarrow \text{Simp}[-4 \cdot b \cdot (d^2/f) \text{ Subst}[\text{Int}[x^2/(a^2 + d^2 \cdot x^4), x], x, \text{Sqrt}[a + b \cdot \tan[e + f \cdot x]]/\text{Sqrt}[d \cdot \sec[e + f \cdot x]]], x] /;$  FreeQ[{a, b, d, e, f}, x] && EqQ[a<sup>2</sup> + b<sup>2</sup>, 0]
3977.  $\text{Int}[(d \cdot \sec(e) + f \cdot x)^m \cdot (a + b \cdot \tan(e) + f \cdot x)^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[2 \cdot b \cdot (d \cdot \sec[e + f \cdot x])^m \cdot (a + b \cdot \tan[e + f \cdot x])^{n-1} / (f \cdot m), x] - \text{Simp}[b^2 \cdot (m + 2 \cdot n - 2) / (d^2 \cdot m) \text{ Int}[(d \cdot \sec[e + f \cdot x])^{m+2} \cdot (a + b \cdot \tan[e + f \cdot x])^{n-2}, x], x] /;$  FreeQ[{a, b, d, e, f}, x] && EqQ[a<sup>2</sup> + b<sup>2</sup>, 0] && GtQ[n, 1] && ((IGtQ[n/2, 0] && ILtQ[m - 1/2, 0]) || (EqQ[n, 2] && LtQ[m, 0]) || (LeQ[m, -1] && GtQ[m + n, 0]) || (ILtQ[m, 0] && LtQ[m/2 + n - 1, 0] && IntegerQ[n]) || (EqQ[n, 3/2] && EqQ[m, -2<sup>(-1)</sup>])) && IntegerQ[2\*m]
3978.  $\text{Int}[(d \cdot \sec(e) + f \cdot x)^m \cdot (a + b \cdot \tan(e) + f \cdot x)^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[b \cdot (d \cdot \sec[e + f \cdot x])^m \cdot (a + b \cdot \tan[e + f \cdot x])^n / (a \cdot f \cdot m), x] + \text{Simp}[a \cdot (m + n) / (m \cdot d^2) \text{ Int}[(d \cdot \sec[e + f \cdot x])^{m+2} \cdot (a + b \cdot \tan[e + f \cdot x])^{n-1}, x], x] /;$  FreeQ[{a, b, d, e, f}, x] && EqQ[a<sup>2</sup> + b<sup>2</sup>, 0] && GtQ[n, 0] && LtQ[m, -1] && IntegersQ[2\*m, 2\*n]
3979.  $\text{Int}[(d \cdot \sec(e) + f \cdot x)^m \cdot (a + b \cdot \tan(e) + f \cdot x)^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[b \cdot (d \cdot \sec[e + f \cdot x])^m \cdot (a + b \cdot \tan[e + f \cdot x])^{n-1} / (f \cdot (m + n - 1))], x] + \text{Simp}[a \cdot (m + 2 \cdot n - 2) / (m + n - 1) \text{ Int}[(d \cdot \sec[e + f \cdot x])^m \cdot (a + b \cdot \tan[e + f \cdot x])^{n-1}, x], x] /;$  FreeQ[{a, b, d, e, f, m}, x] && EqQ[a<sup>2</sup> + b<sup>2</sup>, 0] && GtQ[n, 0] && NeQ[m + n - 1, 0] && IntegersQ[2\*m, 2\*n]
3980.  $\text{Int}[(d \cdot \sec(e) + f \cdot x)^{3/2} / \text{Sqrt}[a + b \cdot \tan(e) + f \cdot x], x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot (\sec[e + f \cdot x]) / (\text{Sqrt}[a - b \cdot \tan[e + f \cdot x]]), x]$

- $f*x]]*\text{Sqrt}[a + b*\text{Tan}[e + f*x]]) \text{Int}[\text{Sqrt}[d*\text{Sec}[e + f*x]]*\text{Sqrt}[a - b$   
 $*\text{Tan}[e + f*x]], x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2,$   
 $0]$
3981.  $\text{Int}[(d_*)*\text{sec}[(e_*) + (f_*)*(x_)]])^{(m_*)}*((a_*) + (b_*)*\text{tan}[(e_*) + (f_*$   
 $*)*(x_)]])^{(n_*)}, x\_Symbol] \rightarrow \text{Simp}[2*d^2*(d*\text{Sec}[e + f*x])^{(m-2)}*((a +$   
 $b*\text{Tan}[e + f*x])^{(n+1)}/(b*f*(m+2*n))), x] - \text{Simp}[d^2*((m-2)/(b^2$   
 $* (m+2*n)) \text{Int}[(d*\text{Sec}[e + f*x])^{(m-2)}*(a + b*\text{Tan}[e + f*x])^{(n+2)}, x], x] /;$   
 $\text{FreeQ}[\{a, b, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ ((\text{ILtQ}[n/2, 0] \ \&\& \ \text{IGtQ}[m - 1/2, 0]) \ || \ \text{EqQ}[n, -2] \ || \ \text{IGtQ}[m$   
 $+ n, 0] \ || \ (\text{IntegersQ}[n, m + 1/2] \ \&\& \ \text{GtQ}[2*m + n + 1, 0])) \ \&\& \ \text{Integer}$   
 $\text{Q}[2*m]$
3982.  $\text{Int}[(d_*)*\text{sec}[(e_*) + (f_*)*(x_)]])^{(m_*)}*((a_*) + (b_*)*\text{tan}[(e_*) + (f_*$   
 $*)*(x_)]])^{(n_*)}, x\_Symbol] \rightarrow \text{Simp}[d^2*(d*\text{Sec}[e + f*x])^{(m-2)}*((a +$   
 $b*\text{Tan}[e + f*x])^{(n+1)}/(b*f*(m+n-1))), x] + \text{Simp}[d^2*((m-2)/(a*$   
 $(m+n-1)) \text{Int}[(d*\text{Sec}[e + f*x])^{(m-2)}*(a + b*\text{Tan}[e + f*x])^{(n+1)}, x], x] /;$   
 $\text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{LtQ}[n,$   
 $0] \ \&\& \ \text{GtQ}[m, 1] \ \&\& \ !\text{ILtQ}[m+n, 0] \ \&\& \ \text{NeQ}[m+n-1, 0] \ \&\& \ \text{Integers}$   
 $\text{Q}[2*m, 2*n]$
3983.  $\text{Int}[(d_*)*\text{sec}[(e_*) + (f_*)*(x_)]])^{(m_*)}*((a_*) + (b_*)*\text{tan}[(e_*) + (f_*$   
 $*)*(x_)]])^{(n_*)}, x\_Symbol] \rightarrow \text{Simp}[a*(d*\text{Sec}[e + f*x])^m*((a + b*\text{Tan}[e$   
 $+ f*x])^n/(b*f*(m+2*n))), x] + \text{Simp}[\text{Simplify}[m+n]/(a*(m+2*n))$   
 $\text{Int}[(d*\text{Sec}[e + f*x])^m*(a + b*\text{Tan}[e + f*x])^{(n+1)}, x], x] /; \text{FreeQ}[\{$   
 $a, b, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{LtQ}[n, 0] \ \&\& \ \text{NeQ}[m+2*n,$   
 $0] \ \&\& \ \text{IntegersQ}[2*m, 2*n]$
3984.  $\text{Int}[(d_*)*\text{sec}[(e_*) + (f_*)*(x_)]])^{(m_*)}*((a_*) + (b_*)*\text{tan}[(e_*) + (f_*$   
 $*)*(x_)]])^{(n_*)}, x\_Symbol] \rightarrow \text{Simp}[b*(d*\text{Sec}[e + f*x])^m*((a + b*\text{Tan}[e$   
 $+ f*x])^{(n-1)}/(f*\text{Simplify}[m+n-1])), x] + \text{Simp}[a*((m+2*n-2)/\text{S}$   
 $\text{implify}[m+n-1]) \text{Int}[(d*\text{Sec}[e + f*x])^m*(a + b*\text{Tan}[e + f*x])^{(n-1)}, x], x] /;$   
 $\text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{IGtQ}[\text{Simplify}[m+n-1], 0] \ \&\& \ \text{RationalQ}[n]$
3985.  $\text{Int}[(d_*)*\text{sec}[(e_*) + (f_*)*(x_)]])^{(m_*)}*((a_*) + (b_*)*\text{tan}[(e_*) + (f_*$   
 $*)*(x_)]])^{(n_*)}, x\_Symbol] \rightarrow \text{Simp}[a*(d*\text{Sec}[e + f*x])^m*((a + b*\text{Tan}[e$

- $$+ f*x])^n/(b*f*(m + 2*n))), x] + \text{Simp}[\text{Simplify}[m + n]/(a*(m + 2*n)) \text{Int}[(d*\text{Sec}[e + f*x])^m*(a + b*\text{Tan}[e + f*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{ILtQ}[\text{Simplify}[m + n], 0] \&\& \text{NeQ}[m + 2*n, 0]$$
3986.  $\text{Int}[(d_*)*\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}*((a_*) + (b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \rightarrow \text{Simp}[(d*\text{Sec}[e + f*x])^m/((a + b*\text{Tan}[e + f*x])^{(m/2)}*(a - b*\text{Tan}[e + f*x])^{(m/2)}) \text{Int}[(a + b*\text{Tan}[e + f*x])^{(m/2 + n)}*(a - b*\text{Tan}[e + f*x])^{(m/2)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 + b^2, 0]$
3987.  $\text{Int}[\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}*((a_*) + (b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \rightarrow \text{Simp}[1/(b*f) \text{Subst}[\text{Int}[(a + x)^n*(1 + x^2/b^2)^{(m/2 - 1)}, x], x, b*\text{Tan}[e + f*x]], x] /; \text{FreeQ}[\{a, b, e, f, n\}, x] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{IntegerQ}[m/2]$
3988.  $\text{Int}[\text{sec}[(e_*) + (f_*)*(x_)]/((a_*) + (b_*)*\text{tan}[(e_*) + (f_*)*(x_)]), x\_Symbol] \rightarrow \text{Simp}[-f^{(-1)} \text{Subst}[\text{Int}[1/(a^2 + b^2 - x^2), x], x, (b - a*\text{Tan}[e + f*x])/ \text{Sec}[e + f*x]], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a^2 + b^2, 0]$
3989.  $\text{Int}[\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}/((a_*) + (b_*)*\text{tan}[(e_*) + (f_*)*(x_)]), x\_Symbol] \rightarrow \text{Simp}[-(b^2)^{(-1)} \text{Int}[\text{Sec}[e + f*x]^{(m - 2)}*(a - b*\text{Tan}[e + f*x]), x], x] + \text{Simp}[(a^2 + b^2)/b^2 \text{Int}[\text{Sec}[e + f*x]^{(m - 2)}/(a + b*\text{Tan}[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{IGtQ}[(m - 1)/2, 0]$
3990.  $\text{Int}[\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}/((a_*) + (b_*)*\text{tan}[(e_*) + (f_*)*(x_)]), x\_Symbol] \rightarrow \text{Simp}[1/(a^2 + b^2) \text{Int}[\text{Sec}[e + f*x]^m*(a - b*\text{Tan}[e + f*x]), x], x] + \text{Simp}[b^2/(a^2 + b^2) \text{Int}[\text{Sec}[e + f*x]^{(m + 2)}/(a + b*\text{Tan}[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{ILtQ}[(m - 1)/2, 0]$
3991.  $\text{Int}[\text{sec}[(e_*) + (f_*)*(x_)]^{(m_*)}*((a_*) + (b_*)*\text{tan}[(e_*) + (f_*)*(x_)]^{(n_*)}, x\_Symbol] \rightarrow \text{Module}[\{k\}, \text{Int}[\text{Sec}[e + f*x]^m*\text{Sum}[\text{Binomial}[n, 2*k]*a^{(n - 2*k)}*b^{(2*k)}*\text{Tan}[e + f*x]^{(2*k)}, \{k, 0, n/2\}], x] + \text{Int}[\text{Sec}[e + f*x]^m*\text{Tan}[e + f*x]*\text{Sum}[\text{Binomial}[n, 2*k + 1]*a^{(n - 2*k - 1)}*b^{(2$

- $*k + 1) \cdot \text{Tan}[e + f \cdot x]^{(2 \cdot k)}, \{k, 0, (n - 1)/2\}, x] /; \text{FreeQ}[\{a, b, e, f\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ \text{IntegerQ}[(m - 1)/2] \ \&\& \ \text{IGtQ}[n, 0]$
3992.  $\text{Int}[\text{sec}[(e\_.) + (f\_.) \cdot (x\_)]^{(m\_)} \cdot ((a\_.) + (b\_.) \cdot \text{tan}[(e\_.) + (f\_.) \cdot (x\_)])^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[\text{Sec}[e + f \cdot x] / (b \cdot f \cdot \text{Sqrt}[\text{Sec}[e + f \cdot x]^2]) \ \text{Subst}[\text{Int}[(a + x)^n \cdot (1 + x^2/b^2)^{(m/2 - 1)}, x], x, b \cdot \text{Tan}[e + f \cdot x]], x] /; \text{FreeQ}[\{a, b, e, f, n\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ \text{IntegerQ}[(m - 1)/2]$
3993.  $\text{Int}[(d\_.) \cdot \text{sec}[(e\_.) + (f\_.) \cdot (x\_)]^{(m\_)} \cdot ((a\_.) + (b\_.) \cdot \text{tan}[(e\_.) + (f\_.) \cdot (x\_)])^2, x\_Symbol] \rightarrow \text{Simp}[b \cdot (d \cdot \text{Sec}[e + f \cdot x])^m \cdot ((a + b \cdot \text{Tan}[e + f \cdot x]) / (f \cdot (m + 1))), x] + \text{Simp}[1 / (m + 1) \ \text{Int}[(d \cdot \text{Sec}[e + f \cdot x])^m \cdot (a^2 \cdot (m + 1) - b^2 + a \cdot b \cdot (m + 2) \cdot \text{Tan}[e + f \cdot x]), x], x] /; \text{FreeQ}[\{a, b, d, e, f, m\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ !\text{IntegerQ}[m]$
3994.  $\text{Int}[(d\_.) \cdot \text{sec}[(e\_.) + (f\_.) \cdot (x\_)]^{(m\_)} \cdot ((a\_.) + (b\_.) \cdot \text{tan}[(e\_.) + (f\_.) \cdot (x\_)])^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[d^{(2 \cdot \text{IntPart}[m/2])} \cdot ((d \cdot \text{Sec}[e + f \cdot x])^{(2 \cdot \text{FracPart}[m/2])} / (b \cdot f \cdot (\text{Sec}[e + f \cdot x]^2)^{\text{FracPart}[m/2]})) \ \text{Subst}[\text{Int}[(a + x)^n \cdot (1 + x^2/b^2)^{(m/2 - 1)}, x], x, b \cdot \text{Tan}[e + f \cdot x]], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ !\text{IntegerQ}[m] \ \&\& \ \text{IntegerQ}[n]$
3995.  $\text{Int}[(d\_.) \cdot \text{sec}[(e\_.) + (f\_.) \cdot (x\_)]^{(m\_)} \cdot ((a\_.) + (b\_.) \cdot \text{tan}[(e\_.) + (f\_.) \cdot (x\_)])^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[d^{(2 \cdot \text{IntPart}[m/2])} \cdot (a^2 + b^2)^{(\text{IntPart}[m/2] - 1)} \cdot ((d \cdot \text{Sec}[e + f \cdot x])^{(2 \cdot \text{FracPart}[m/2])} / (f \cdot b^{(2 \cdot \text{IntPart}[m/2] - 1)} \cdot (1 - (a + b \cdot \text{Tan}[e + f \cdot x]) / (a - \text{Rt}[-b^2, 2]))^{\text{FracPart}[m/2]} \cdot (1 - (a + b \cdot \text{Tan}[e + f \cdot x]) / (a + \text{Rt}[-b^2, 2]))^{\text{FracPart}[m/2]})) \ \text{Subst}[\text{Int}[x^n \cdot (1 - x / (a - \text{Rt}[-b^2, 2]))^{(m/2 - 1)} \cdot (1 - x / (a + \text{Rt}[-b^2, 2]))^{(m/2 - 1)}, x], x, a + b \cdot \text{Tan}[e + f \cdot x]], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ !\text{IntegerQ}[m] \ \&\& \ !\text{IntegerQ}[n]$
3996.  $\text{Int}[\text{Sqrt}[(a\_.) + (b\_.) \cdot \text{tan}[(e\_.) + (f\_.) \cdot (x\_)]] / \text{Sqrt}[\cos[(e\_.) + (f\_.) \cdot (x\_)] \cdot (d\_.)], x\_Symbol] \rightarrow \text{Simp}[-4 \cdot (b/f) \ \text{Subst}[\text{Int}[x^2 / (a^2 \cdot d^2 + x^4), x], x, \text{Sqrt}[d \cdot \text{Cos}[e + f \cdot x]] \cdot \text{Sqrt}[a + b \cdot \text{Tan}[e + f \cdot x]], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0]$

3997.  $\text{Int}[1/((\cos[(e_.) + (f_.)(x_.)]*(d_.))^{3/2}*\text{Sqrt}[(a_.) + (b_.)*\tan[(e_.) + (f_.)(x_.)]]), x\_Symbol] \rightarrow \text{Simp}[1/(d*\text{Cos}[e + f*x]*\text{Sqrt}[a - b*\text{Tan}[e + f*x]]*\text{Sqrt}[a + b*\text{Tan}[e + f*x]]) \text{Int}[\text{Sqrt}[a - b*\text{Tan}[e + f*x]]/\text{Sqrt}[d*\text{Cos}[e + f*x]], x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{EqQ}[a^2 + b^2, 0]$
3998.  $\text{Int}[(\cos[(e_.) + (f_.)(x_.)]*(d_.))^{(m_.)*((a_.) + (b_.)*\tan[(e_.) + (f_.)(x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(d*\text{Cos}[e + f*x])^m*(d*\text{Sec}[e + f*x])^m \text{Int}[(a + b*\text{Tan}[e + f*x])^n/(d*\text{Sec}[e + f*x])^m, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{!IntegerQ}[m]$
3999.  $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((a_.) + (b_.)*\tan[(e_.) + (f_.)(x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[b/f \text{Subst}[\text{Int}[x^m*((a + x)^n/(b^2 + x^2)^{(m/2 + 1))}, x], x, b*\text{Tan}[e + f*x]], x] /; \text{FreeQ}[\{a, b, e, f, n\}, x] \&\& \text{IntegerQ}[m/2]$
4000.  $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((a_.) + (b_.)*\tan[(e_.) + (f_.)(x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{Expand}[\text{Sin}[e + f*x]^m*(a + b*\text{Tan}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{IGtQ}[n, 0]$
4001.  $\text{Int}[\sin[(e_.) + (f_.)(x_.)]^{(m_.)*((a_.) + (b_.)*\tan[(e_.) + (f_.)(x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{Sin}[e + f*x]^m*((a*\text{Cos}[e + f*x] + b*\text{Sin}[e + f*x])^n/\text{Cos}[e + f*x]^n), x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{ILtQ}[n, 0] \&\& ((\text{LtQ}[m, 5] \&\& \text{GtQ}[n, -4]) \|\ (\text{EqQ}[m, 5] \&\& \text{EqQ}[n, -1]))$
4002.  $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_.)]*(d_.))^{(m_.)*((a_.) + (b_.)*\tan[(e_.) + (f_.)(x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(d*\text{Csc}[e + f*x])^m*\text{FracPart}[m]*(\text{Sin}[e + f*x]/d)^m \text{Int}[(a + b*\text{Tan}[e + f*x])^n/(\text{Sin}[e + f*x]/d)^m, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{!IntegerQ}[m]$
4003.  $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^{(m_.)*\sin[(e_.) + (f_.)(x_.)]^{(p_.)*((a_.) + (b_.)*\tan[(e_.) + (f_.)(x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{Cos}[e + f*x]^{(m - n)*\text{Sin}[e + f*x]^p*(a*\text{Cos}[e + f*x] + b*\text{Sin}[e + f*x])^n, x] /; \text{FreeQ}[\{a, b, e, f, m, p\}, x] \&\& \text{IntegerQ}[n]$

4004.  $\text{Int}[\cos[(e_.) + (f_.)(x_.)]^{(p_.)} * (\cot[(e_.) + (f_.)(x_.)] * (b_.) + (a_.))^{(n_.)} * \sin[(e_.) + (f_.)(x_.)]^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[\text{Sin}[e + f*x]^{(m - n)} * \text{Cos}[e + f*x]^{(p)} * (a * \text{Sin}[e + f*x] + b * \text{Cos}[e + f*x])^n, x] /;$  FreeQ[{a, b, e, f, m, p}, x] && IntegerQ[n]
4005.  $\text{Int}[((a_.) + (b_.) * \tan[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.) * \tan[(e_.) + (f_.)(x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[a^m * c^m \text{Int}[\text{Sec}[e + f*x]^{(2*m)} * (c + d * \text{Tan}[e + f*x])^{(n - m)}, x], x] /;$  FreeQ[{a, b, c, d, e, f, n}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 + b^2, 0] && IntegerQ[m] && ! (IGtQ[n, 0] && (LtQ[m, 0] || GtQ[m, n]))
4006.  $\text{Int}[((a_.) + (b_.) * \tan[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.) * \tan[(e_.) + (f_.)(x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[a * (c/f) \text{Subst}[\text{Int}[(a + b*x)^{(m - 1)} * (c + d*x)^{(n - 1)}, x], x, \text{Tan}[e + f*x]], x] /;$  FreeQ[{a, b, c, d, e, f, m, n}, x] && EqQ[b\*c + a\*d, 0] && EqQ[a^2 + b^2, 0]
4007.  $\text{Int}[((a_.) + (b_.) * \tan[(e_.) + (f_.)(x_.)]) * ((c_.) + (d_.) * \tan[(e_.) + (f_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[(a*c - b*d)*x, x] + \text{Simp}[b*d * (\text{Tan}[e + f*x]/f), x] /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && EqQ[b\*c + a\*d, 0]
4008.  $\text{Int}[((a_.) + (b_.) * \tan[(e_.) + (f_.)(x_.)]) * ((c_.) + (d_.) * \tan[(e_.) + (f_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[(a*c - b*d)*x, x] + (\text{Simp}[b*d * (\text{Tan}[e + f*x]/f), x] + \text{Simp}[(b*c + a*d) \text{Int}[\text{Tan}[e + f*x], x], x]) /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && NeQ[b\*c + a\*d, 0]
4009.  $\text{Int}[((a_.) + (b_.) * \tan[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.) * \tan[(e_.) + (f_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[(- (b*c - a*d)) * ((a + b * \text{Tan}[e + f*x])^{(m)/(2*a*f*m)}), x] + \text{Simp}[(b*c + a*d) / (2*a*b) \text{Int}[(a + b * \text{Tan}[e + f*x])^{(m + 1)}, x], x] /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^2 + b^2, 0] && LtQ[m, 0]
4010.  $\text{Int}[((a_.) + (b_.) * \tan[(e_.) + (f_.)(x_.)])^{(m_.)} * ((c_.) + (d_.) * \tan[(e_.) + (f_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[d * ((a + b * \text{Tan}[e + f*x])^{(m)/(f*m)}), x] + \text{Simp}[(b*c + a*d) / b \text{Int}[(a + b * \text{Tan}[e + f*x])^m, x], x] /;$  FreeQ[{a, b, c, d, e, f, m}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^2 + b^2, 0] &

& !LtQ[m, 0]

4011.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^m \left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot (a + b \cdot \tan[e + f \cdot x])^m / (f \cdot m), x] + \text{Int}[(a + b \cdot \tan[e + f \cdot x])^{m-1} \cdot \text{Simp}[a \cdot c - b \cdot d + (b \cdot c + a \cdot d) \cdot \tan[e + f \cdot x], x], x] /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && NeQ[a^2 + b^2, 0] && GtQ[m, 0]

4012.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^m \left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(b \cdot c - a \cdot d) \cdot (a + b \cdot \tan[e + f \cdot x])^{m+1} / (f \cdot (m+1) \cdot (a^2 + b^2)), x] + \text{Simp}[1 / (a^2 + b^2) \cdot \text{Int}[(a + b \cdot \tan[e + f \cdot x])^{m+1} \cdot \text{Simp}[a \cdot c + b \cdot d - (b \cdot c - a \cdot d) \cdot \tan[e + f \cdot x], x], x], x] /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && NeQ[a^2 + b^2, 0] && LtQ[m, -1]

4013.  $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right) / \left((a_{\cdot}) + (b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(c / (b \cdot f)) \cdot \text{Log}[\text{RemoveContent}[a \cdot \cos[e + f \cdot x] + b \cdot \sin[e + f \cdot x], x]], x] /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && NeQ[a^2 + b^2, 0] && EqQ[a\*c + b\*d, 0]

4014.  $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right) / \left((a_{\cdot}) + (b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(a \cdot c + b \cdot d) \cdot (x / (a^2 + b^2)), x] + \text{Simp}[(b \cdot c - a \cdot d) / (a^2 + b^2) \cdot \text{Int}[(b - a \cdot \tan[e + f \cdot x]) / (a + b \cdot \tan[e + f \cdot x]), x], x] /;$  FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[a\*c + b\*d, 0]

4015.  $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right) / \text{Sqrt}[(b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]], x_{\text{Symbol}}] \rightarrow \text{Simp}[-2 \cdot (d^2 / f) \cdot \text{Subst}[\text{Int}[1 / (2 \cdot c \cdot d + b \cdot x^2), x], x, (c - d \cdot \tan[e + f \cdot x]) / \text{Sqrt}[b \cdot \tan[e + f \cdot x]]], x] /;$  FreeQ[{b, c, d, e, f}, x] && EqQ[c^2 - d^2, 0]

4016.  $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right) / \text{Sqrt}[(b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]], x_{\text{Symbol}}] \rightarrow \text{Simp}[2 \cdot (c^2 / f) \cdot \text{Subst}[\text{Int}[1 / (b \cdot c - d \cdot x^2), x], x, \text{Sqrt}[b \cdot \tan[e + f \cdot x]]], x] /;$  FreeQ[{b, c, d, e, f}, x] && EqQ[c^2 + d^2, 0]



4017.  $\text{Int}[\frac{(c_.) + (d_.)\tan[(e_.) + (f_.)x]}{\sqrt{(b_.)\tan[(e_.) + (f_.)x]}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[2/f \text{ Subst}[\text{Int}[(b*c + d*x^2)/(b^2 + x^4), x], x, \sqrt{b*\text{Tan}[e + f*x]}], x] /; \text{FreeQ}\{b, c, d, e, f\}, x\} \&\& \text{NeQ}[c^2 - d^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4018.  $\text{Int}[\frac{(c_.) + (d_.)\tan[(e_.) + (f_.)x]}{\sqrt{(a_.) + (b_.)\tan[(e_.) + (f_.)x]}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-2*(d^2/f) \text{ Subst}[\text{Int}[1/(2*b*c*d - 4*a*d^2 + x^2), x], x, (b*c - 2*a*d - b*d*\text{Tan}[e + f*x])/\sqrt{a + b*\text{Tan}[e + f*x]}], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{EqQ}[2*a*c*d - b*(c^2 - d^2), 0]$
4019.  $\text{Int}[\frac{(c_.) + (d_.)\tan[(e_.) + (f_.)x]}{\sqrt{(a_.) + (b_.)\tan[(e_.) + (f_.)x]}}, x_{\text{Symbol}}] \rightarrow \text{With}\{q = \text{Rt}[a^2 + b^2, 2]\}, \text{Simp}[1/(2*q) \text{ Int}[(a*c + b*d + c*q + (b*c - a*d + d*q)*\text{Tan}[e + f*x])/\sqrt{a + b*\text{Tan}[e + f*x]}], x], x] - \text{Simp}[1/(2*q) \text{ Int}[(a*c + b*d - c*q + (b*c - a*d - d*q)*\text{Tan}[e + f*x])/\sqrt{a + b*\text{Tan}[e + f*x]}], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{NeQ}[2*a*c*d - b*(c^2 - d^2), 0] \&\& \text{NiceSqrtQ}[a^2 + b^2]$
4020.  $\text{Int}[\frac{(a_.) + (b_.)\tan[(e_.) + (f_.)x]}{d} \frac{(c_.) + (d_.)\tan[(e_.) + (f_.)x]}{d}, x_{\text{Symbol}}] \rightarrow \text{Simp}[c*(d/f) \text{ Subst}[\text{Int}[(a + (b/d)*x)^m/(d^2 + c*x), x], x, d*\text{Tan}[e + f*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{EqQ}[c^2 + d^2, 0]$
4021.  $\text{Int}[\frac{(b_.)\tan[(e_.) + (f_.)x]}{c} \frac{(c_.) + (d_.)\tan[(e_.) + (f_.)x]}{c}, x_{\text{Symbol}}] \rightarrow \text{Simp}[c \text{ Int}[(b*\text{Tan}[e + f*x])^m, x], x] + \text{Simp}[d/b \text{ Int}[(b*\text{Tan}[e + f*x])^{m+1}, x], x] /; \text{FreeQ}\{b, c, d, e, f, m\}, x\} \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{IntegerQ}[2*m]$
4022.  $\text{Int}[\frac{(a_.) + (b_.)\tan[(e_.) + (f_.)x]}{c + I*d} \frac{(c_.) + (d_.)\tan[(e_.) + (f_.)x]}{c - I*d}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(c + I*d)/2 \text{ Int}[(a + b*\text{Tan}[e + f*x])^m*(1 - I*\text{Tan}[e + f*x]), x], x] + \text{Simp}[(c - I*d)/2 \text{ Int}[(a + b*\text{Tan}[e + f*x])^m*(1 + I*\text{Tan}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{IntegerQ}[m]$

4023.  $\text{Int}[(a + (b \cdot \tan(e) + f \cdot x))^m \cdot ((c + (d \cdot \tan(e) + f \cdot x))^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b) \cdot (a \cdot c + b \cdot d)^2 \cdot ((a + b \cdot \tan(e + f \cdot x))^m / (2 \cdot a^3 \cdot f \cdot m)), x] + \text{Simp}[1 / (2 \cdot a^2) \text{Int}[(a + b \cdot \tan(e + f \cdot x))^m + 1] \cdot \text{Simp}[a \cdot c^2 - 2 \cdot b \cdot c \cdot d + a \cdot d^2 - 2 \cdot b \cdot d^2 \cdot \tan(e + f \cdot x), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LeQ}[m, -1] \&\& \text{EqQ}[a^2 + b^2, 0]$
4024.  $\text{Int}[(c + (d \cdot \tan(e) + f \cdot x))^2 / ((a + (b \cdot \tan(e) + f \cdot x))), x_{\text{Symbol}}] \rightarrow \text{Simp}[d \cdot (2 \cdot b \cdot c - a \cdot d) \cdot (x / b^2), x] + (\text{Simp}[d^2 / b \text{Int}[\tan(e + f \cdot x), x], x] + \text{Simp}[(b \cdot c - a \cdot d)^2 / b^2 \text{Int}[1 / (a + b \cdot \tan(e + f \cdot x)), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{NeQ}[a^2 + b^2, 0]$
4025.  $\text{Int}[(a + (b \cdot \tan(e) + f \cdot x))^m \cdot ((c + (d \cdot \tan(e) + f \cdot x))^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[(b \cdot c - a \cdot d)^2 \cdot ((a + b \cdot \tan(e + f \cdot x))^m + 1) / (b \cdot f \cdot (m + 1) \cdot (a^2 + b^2))], x] + \text{Simp}[1 / (a^2 + b^2) \text{Int}[(a + b \cdot \tan(e + f \cdot x))^m + 1] \cdot \text{Simp}[a \cdot c^2 + 2 \cdot b \cdot c \cdot d - a \cdot d^2 - (b \cdot c^2 - 2 \cdot a \cdot c \cdot d - b \cdot d^2) \cdot \tan(e + f \cdot x), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[a^2 + b^2, 0]$
4026.  $\text{Int}[(a + (b \cdot \tan(e) + f \cdot x))^m \cdot ((c + (d \cdot \tan(e) + f \cdot x))^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[d^2 \cdot ((a + b \cdot \tan(e + f \cdot x))^m + 1) / (b \cdot f \cdot (m + 1))], x] + \text{Int}[(a + b \cdot \tan(e + f \cdot x))^m \cdot \text{Simp}[c^2 - d^2 + 2 \cdot c \cdot d \cdot \tan(e + f \cdot x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& !\text{LeQ}[m, -1] \&\& !(\text{EqQ}[m, 2] \&\& \text{EqQ}[a, 0])$
4027.  $\text{Int}[\text{Sqrt}[(a + (b \cdot \tan(e) + f \cdot x))] / \text{Sqrt}[(c + (d \cdot \tan(e) + f \cdot x))], x_{\text{Symbol}}] \rightarrow \text{Simp}[-2 \cdot a \cdot (b / f) \text{Subst}[\text{Int}[1 / (a \cdot c - b \cdot d - 2 \cdot a^2 \cdot x^2), x], x, \text{Sqrt}[c + d \cdot \tan(e + f \cdot x)] / \text{Sqrt}[a + b \cdot \tan(e + f \cdot x)]], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b \cdot c - a \cdot d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4028.  $\text{Int}[(a + (b \cdot \tan(e) + f \cdot x))^m \cdot ((c + (d \cdot \tan(e) + f \cdot x))^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[a \cdot b \cdot (a + b \cdot \tan(e + f \cdot x))^m - 1] \cdot ((c + d \cdot \tan(e + f \cdot x))^{n+1} / (f \cdot (m - 1) \cdot (a \cdot c - b \cdot d))), x] + \text{Simp}[2 \cdot (a^2 / (a \cdot c - b \cdot d)) \text{Int}[(a + b \cdot \tan(e + f \cdot x))^{m-1} \cdot (c + d \cdot \tan(e + f \cdot x))], x]$

- $f*x])^{(n+1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{NeQ}[c^2 + d^2, 0] \ \&\& \ \text{EqQ}[m + n, 0] \ \&\& \ \text{GtQ}[m, 1/2]$
4029.  $\text{Int}[\{(a\_)+(b\_)*\tan[(e\_)+(f\_)*(x\_)]\}^{(m\_)*\{(c\_)+(d\_)*\tan[(e\_)+(f\_)*(x\_)]\}^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[a*(a + b*\tan[e + f*x])^m*((c + d*\tan[e + f*x])^n/(2*b*f*m)), x] - \text{Simp}[(a*c - b*d)/(2*b^2) \ \text{Int}[(a + b*\tan[e + f*x])^{(m+1)}*(c + d*\tan[e + f*x])^{(n-1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{NeQ}[c^2 + d^2, 0] \ \&\& \ \text{EqQ}[m + n, 0] \ \&\& \ \text{LeQ}[m, -2^{(-1)}]$
4030.  $\text{Int}[\{(a\_)+(b\_)*\tan[(e\_)+(f\_)*(x\_)]\}^{(m\_)*\{(c\_)+(d\_)*\tan[(e\_)+(f\_)*(x\_)]\}^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[a*(a + b*\tan[e + f*x])^m*((c + d*\tan[e + f*x])^{(n+1)})/(2*f*m*(b*c - a*d)), x] + \text{Simp}[1/(2*a) \ \text{Int}[(a + b*\tan[e + f*x])^{(m+1)}*(c + d*\tan[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{NeQ}[c^2 + d^2, 0] \ \&\& \ \text{EqQ}[m + n + 1, 0] \ \&\& \ \text{LtQ}[m, -1]$
4031.  $\text{Int}[\{(a\_)+(b\_)*\tan[(e\_)+(f\_)*(x\_)]\}^{(m\_)*\{(c\_)+(d\_)*\tan[(e\_)+(f\_)*(x\_)]\}^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[(-d)*(a + b*\tan[e + f*x])^m*((c + d*\tan[e + f*x])^{(n+1)})/(f*m*(c^2 + d^2)), x] + \text{Simp}[a/(a*c - b*d) \ \text{Int}[(a + b*\tan[e + f*x])^m*(c + d*\tan[e + f*x])^{(n+1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{NeQ}[c^2 + d^2, 0] \ \&\& \ \text{EqQ}[m + n + 1, 0] \ \&\& \ \text{!LtQ}[m, -1]$
4032.  $\text{Int}[\{(c\_)+(d\_)*\tan[(e\_)+(f\_)*(x\_)]\}^{(n\_)/\{(a\_)+(b\_)*\tan[(e\_)+(f\_)*(x\_)]\}}, x\_Symbol] \rightarrow \text{Simp}[(-a*c + b*d)*\{(c + d*\tan[e + f*x])^n/(2*(b*c - a*d)*f*(a + b*\tan[e + f*x]))\}, x] + \text{Simp}[1/(2*a*(b*c - a*d)) \ \text{Int}[(c + d*\tan[e + f*x])^{(n-1)}*\text{Simp}[a*c*d*(n-1) + b*c^2 + b*d^2*n - d*(b*c - a*d)*(n-1)*\tan[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{NeQ}[c^2 + d^2, 0] \ \&\& \ \text{LtQ}[0, n, 1]$
4033.  $\text{Int}[\{(c\_)+(d\_)*\tan[(e\_)+(f\_)*(x\_)]\}^{(n\_)/\{(a\_)+(b\_)*\tan[(e\_)+(f\_)*(x\_)]\}}, x\_Symbol] \rightarrow \text{Simp}[(b*c - a*d)*\{(c + d*\tan[e + f*x])^{(n-1)}/(2*a*f*(a + b*\tan[e + f*x]))\}, x] + \text{Simp}[1/(2*a^2) \ \text{Int}[(c + d*\tan[e + f*x])^{(n-2)}*\text{Simp}[a*c^2 + a*d^2*(n-1) - b*c*d*n - d*(a*c$

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*(n - 2) + b*d*n)*Tan[e + f*x], x], x] /; FreeQ[{a, b, c, d, e, f}
, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] &&
GtQ[n, 1]

4034. Int[1/(((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*tan[(e_.
) + (f_.)*(x_)])), x_Symbol] := Simp[b/(b*c - a*d) Int[1/(a + b*Tan[
e + f*x]), x], x] - Simp[d/(b*c - a*d) Int[1/(c + d*Tan[e + f*x]), x
], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2
+ b^2, 0] && NeQ[c^2 + d^2, 0]

4035. Int[((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_)/((a_.) + (b_.)*tan[(e_
.) + (f_.)*(x_)]), x_Symbol] := Simp[(-a)*((c + d*Tan[e + f*x])^(n + 1
))/(2*f*(b*c - a*d)*(a + b*Tan[e + f*x]))], x] + Simp[1/(2*a*(b*c - a*d
)) Int[(c + d*Tan[e + f*x])^n*Simp[b*c + a*d*(n - 1) - b*d*n*Tan[e +
f*x], x], x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && NeQ[b*c - a*d,
0] && EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && !GtQ[n, 0]

4036. Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*tan[(e_
.) + (f_.)*(x_)])^(n_), x_Symbol] := Simp[(-a^2)*(b*c - a*d)*(a + b*Ta
n[e + f*x])^(m - 2)*((c + d*Tan[e + f*x])^(n + 1)/(d*f*(b*c + a*d)*(n
+ 1))), x] + Simp[a/(d*(b*c + a*d)*(n + 1)) Int[(a + b*Tan[e + f*x])
^(m - 2)*(c + d*Tan[e + f*x])^(n + 1)*Simp[b*(b*c*(m - 2) - a*d*(m - 2
*n - 4)) + (a*b*c*(m - 2) + b^2*d*(n + 1) - a^2*d*(m + n - 1))*Tan[e +
f*x], x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0]
&& EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && GtQ[m, 1] && LtQ[n, -1]
&& (IntegerQ[m] || IntegersQ[2*m, 2*n])

4037. Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(3/2)/((c_.) + (d_.)*tan[(e
_.) + (f_.)*(x_)]), x_Symbol] := Simp[2*(a^2/(a*c - b*d)) Int[Sqrt[a
+ b*Tan[e + f*x]], x], x] - Simp[(2*b*c*d + a*(c^2 - d^2))/(a*(c^2 +
d^2)) Int[(a - b*Tan[e + f*x])*(Sqrt[a + b*Tan[e + f*x])/(c + d*Tan[
e + f*x]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0
] && EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0]

4038. Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(3/2)/Sqrt[(c_.) + (d_.)*ta
n[(e_.) + (f_.)*(x_)]], x_Symbol] := Simp[2*a Int[Sqrt[a + b*Tan[e +
f*x]]/Sqrt[c + d*Tan[e + f*x]], x], x] + Simp[b/a Int[(b + a*Tan[e

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+ f*x)]*(Sqrt[a + b*Tan[e + f*x]]/Sqrt[c + d*Tan[e + f*x]]), x], x] /;
FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 + b^2, 0]
] && NeQ[c^2 + d^2, 0]

4039. Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*tan[(e_)
+ (f_)*(x_)])^(n_), x_Symbol] := Simp[b^2*(a + b*Tan[e + f*x])^(m
- 2)*((c + d*Tan[e + f*x])^(n + 1)/(d*f*(m + n - 1))), x] + Simp[a/(d*
(m + n - 1)) Int[(a + b*Tan[e + f*x])^(m - 2)*(c + d*Tan[e + f*x])^n
*Simp[b*c*(m - 2) + a*d*(m + 2*n) + (a*c*(m - 2) + b*d*(3*m + 2*n - 4)
)*Tan[e + f*x], x], x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && NeQ[b
*c - a*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && IntegerQ[2*m
] && GtQ[m, 1] && NeQ[m + n - 1, 0] && (IntegerQ[m] || IntegersQ[2*m,
2*n])

4040. Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*Sqrt[(c_) + (d_)*tan
[(e_) + (f_)*(x_)]], x_Symbol] := Simp[(-b)*(a + b*Tan[e + f*x])^m*(
Sqrt[c + d*Tan[e + f*x]]/(2*a*f*m)), x] + Simp[1/(4*a^2*m) Int[(a +
b*Tan[e + f*x])^(m + 1)*(Simp[2*a*c*m + b*d + a*d*(2*m + 1)*Tan[e + f*
x], x]/Sqrt[c + d*Tan[e + f*x]]), x], x] /; FreeQ[{a, b, c, d, e, f},
x] && NeQ[b*c - a*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && L
tQ[m, 0] && IntegersQ[2*m]

4041. Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*tan[(e_)
+ (f_)*(x_)])^(n_), x_Symbol] := Simp[(-b*c - a*d)*(a + b*Tan[e
+ f*x])^m*((c + d*Tan[e + f*x])^(n - 1)/(2*a*f*m)), x] + Simp[1/(2*a^2
*m) Int[(a + b*Tan[e + f*x])^(m + 1)*(c + d*Tan[e + f*x])^(n - 2)*Si
mp[c*(a*c*m + b*d*(n - 1)) - d*(b*c*m + a*d*(n - 1)) - d*(b*d*(m - n +
1) - a*c*(m + n - 1))*Tan[e + f*x], x], x], x] /; FreeQ[{a, b, c, d,
e, f}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2,
0] && LtQ[m, 0] && GtQ[n, 1] && (IntegerQ[m] || IntegersQ[2*m, 2*n])

4042. Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((c_) + (d_)*tan[(e_)
+ (f_)*(x_)])^(n_), x_Symbol] := Simp[a*(a + b*Tan[e + f*x])^m*((c
+ d*Tan[e + f*x])^(n + 1)/(2*f*m*(b*c - a*d))), x] + Simp[1/(2*a*m*(b
*c - a*d)) Int[(a + b*Tan[e + f*x])^(m + 1)*(c + d*Tan[e + f*x])^n*S
imp[b*c*m - a*d*(2*m + n + 1) + b*d*(m + n + 1)*Tan[e + f*x], x], x],
x] /; FreeQ[{a, b, c, d, e, f, n}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2

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- + b<sup>2</sup>, 0] && NeQ[c<sup>2</sup> + d<sup>2</sup>, 0] && LtQ[m, 0] && (IntegerQ[m] || Integer  
sQ[2\*m, 2\*n])
4043. Int[((a\_) + (b\_)\*tan[(e\_) + (f\_)\*(x\_)])^(m\_)\*((c\_) + (d\_)\*tan[(e\_)  
(.) + (f\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[d\*(a + b\*Tan[e + f\*x])^m\*((c  
+ d\*Tan[e + f\*x])^(n - 1)/(f\*(m + n - 1))), x] - Simp[1/(a\*(m + n - 1  
) Int[(a + b\*Tan[e + f\*x])^m\*(c + d\*Tan[e + f\*x])^(n - 2)\*Simp[d\*(b  
\*c\*m + a\*d\*(-1 + n) - a\*c^2\*(m + n - 1) + d\*(b\*d\*m - a\*c\*(m + 2\*n - 2  
) \*Tan[e + f\*x], x], x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && NeQ[  
b\*c - a\*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && GtQ[n, 1] &&  
& NeQ[m + n - 1, 0] && (IntegerQ[n] || IntegersQ[2\*m, 2\*n])
4044. Int[((a\_) + (b\_)\*tan[(e\_) + (f\_)\*(x\_)])^(m\_)\*((c\_) + (d\_)\*tan[(e\_)  
(.) + (f\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[d\*(a + b\*Tan[e + f\*x])^m\*((c  
+ d\*Tan[e + f\*x])^(n + 1)/(f\*(n + 1)\*(c^2 + d^2))), x] - Simp[1/(a\*(c  
^2 + d^2)\*(n + 1)) Int[(a + b\*Tan[e + f\*x])^m\*(c + d\*Tan[e + f\*x])^(  
n + 1)\*Simp[b\*d\*m - a\*c\*(n + 1) + a\*d\*(m + n + 1)\*Tan[e + f\*x], x], x]  
, x] /; FreeQ[{a, b, c, d, e, f, m}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^  
2 + b^2, 0] && NeQ[c^2 + d^2, 0] && LtQ[n, -1] && (IntegerQ[n] || Inte  
gersQ[2\*m, 2\*n])
4045. Int[((a\_) + (b\_)\*tan[(e\_) + (f\_)\*(x\_)])^(m\_)/((c\_) + (d\_)\*tan[(e\_)  
(.) + (f\_)\*(x\_)]), x\_Symbol] := Simp[a/(a\*c - b\*d) Int[(a + b\*Tan[e  
+ f\*x])^m, x], x] - Simp[d/(a\*c - b\*d) Int[(a + b\*Tan[e + f\*x])^m\*((  
b + a\*Tan[e + f\*x])/(c + d\*Tan[e + f\*x])), x], x] /; FreeQ[{a, b, c, d  
, e, f, m}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[c^2 +  
d^2, 0]
4046. Int[Sqrt[(a\_) + (b\_)\*tan[(e\_) + (f\_)\*(x\_)]]\*Sqrt[(c\_) + (d\_)\*tan[  
(e\_) + (f\_)\*(x\_)], x\_Symbol] := Simp[(a\*c - b\*d)/a Int[Sqrt[a + b  
\*Tan[e + f\*x]]/Sqrt[c + d\*Tan[e + f\*x]], x], x] + Simp[d/a Int[Sqrt[  
a + b\*Tan[e + f\*x]]\*((b + a\*Tan[e + f\*x])/Sqrt[c + d\*Tan[e + f\*x]]), x  
, x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b\*c - a\*d, 0] && EqQ[a^2  
+ b^2, 0] && NeQ[c^2 + d^2, 0]
4047. Int[((a\_) + (b\_)\*tan[(e\_) + (f\_)\*(x\_)])^(m\_)\*((c\_) + (d\_)\*tan[(e\_)  
(.) + (f\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[a\*(b/f) Subst[Int[(a + x)^

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(m - 1)*((c + (d/b)*x)^n/(b^2 + a*x)), x], x, b*Tan[e + f*x]], x] /; FreeQ[{a, b, c, d, e, f, m, n}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0]
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4048. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Symbol] := Simp[(b*c - a*d)^2*(a + b*Tan[e + f*x])^(m - 2)*((c + d*Tan[e + f*x])^(n + 1)/(d*f*(n + 1)*(c^2 + d^2))), x] - Simp[1/(d*(n + 1)*(c^2 + d^2)) Int[(a + b*Tan[e + f*x])^(m - 3)*(c + d*Tan[e + f*x])^(n + 1)*Simp[a^2*d*(b*d*(m - 2) - a*c*(n + 1)) + b*(b*c - 2*a*d)*(b*c*(m - 2) + a*d*(n + 1)) - d*(n + 1)*(3*a^2*b*c - b^3*c - a^3*d + 3*a*b^2*d)*Tan[e + f*x] - b*(a*d*(2*b*c - a*d)*(m + n - 1) - b^2*(c^2*(m - 2) - d^2*(n + 1)))*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && GtQ[m, 2] && LtQ[n, -1] && IntegerQ[2*m]`
4049. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Symbol] := Simp[b^2*(a + b*Tan[e + f*x])^(m - 2)*((c + d*Tan[e + f*x])^(n + 1)/(d*f*(m + n - 1))), x] + Simp[1/(d*(m + n - 1)) Int[(a + b*Tan[e + f*x])^(m - 3)*(c + d*Tan[e + f*x])^n*Simp[a^3*d*(m + n - 1) - b^2*(b*c*(m - 2) + a*d*(1 + n)) + b*d*(m + n - 1)*(3*a^2 - b^2)*Tan[e + f*x] - b^2*(b*c*(m - 2) - a*d*(3*m + 2*n - 4))*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && IntegerQ[2*m] && GtQ[m, 2] && (GeQ[n, -1] || IntegerQ[m]) && !(IGtQ[n, 2] && (!IntegerQ[m] || (EqQ[c, 0] && NeQ[a, 0])))`
4050. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Symbol] := Simp[(b*c - a*d)*(a + b*Tan[e + f*x])^(m + 1)*((c + d*Tan[e + f*x])^(n - 1)/(f*(m + 1)*(a^2 + b^2))), x] + Simp[1/((m + 1)*(a^2 + b^2)) Int[(a + b*Tan[e + f*x])^(m + 1)*(c + d*Tan[e + f*x])^(n - 2)*Simp[a*c^2*(m + 1) + a*d^2*(n - 1) + b*c*d*(m - n + 2) - (b*c^2 - 2*a*c*d - b*d^2)*(m + 1)*Tan[e + f*x] - d*(b*c - a*d)*(m + n)*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && LtQ[m, -1] && LtQ[1, n, 2] && IntegerQ[2*m]`

4051. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Symbol] := Simp[b*(a + b*Tan[e + f*x])^(m + 1)*((c + d*Tan[e + f*x])^n/(f*(m + 1)*(a^2 + b^2))), x] + Simp[1/((m + 1)*(a^2 + b^2)) Int[(a + b*Tan[e + f*x])^(m + 1)*(c + d*Tan[e + f*x])^(n - 1)*Simp[a*c*(m + 1) - b*d*n - (b*c - a*d)*(m + 1)*Tan[e + f*x] - b*d*(m + n + 1)*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && LtQ[m, -1] && GtQ[n, 0] && IntegerQ[2*m]`
4052. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Symbol] := Simp[b^2*(a + b*Tan[e + f*x])^(m + 1)*((c + d*Tan[e + f*x])^(n + 1)/(f*(m + 1)*(a^2 + b^2)*(b*c - a*d))), x] + Simp[1/((m + 1)*(a^2 + b^2)*(b*c - a*d)) Int[(a + b*Tan[e + f*x])^(m + 1)*(c + d*Tan[e + f*x])^n*Simp[a*(b*c - a*d)*(m + 1) - b^2*d*(m + n + 2) - b*(b*c - a*d)*(m + 1)*Tan[e + f*x] - b^2*d*(m + n + 2)*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && IntegerQ[2*m] && LtQ[m, -1] && (LtQ[n, 0] || IntegerQ[m]) && !(ILtQ[n, -1] && (!IntegerQ[m] || (EqQ[c, 0] && NeQ[a, 0])))`
4053. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Symbol] := Simp[b*(a + b*Tan[e + f*x])^(m - 1)*((c + d*Tan[e + f*x])^n/(f*(m + n - 1))), x] + Simp[1/(m + n - 1) Int[(a + b*Tan[e + f*x])^(m - 2)*(c + d*Tan[e + f*x])^(n - 1)*Simp[a^2*c*(m + n - 1) - b*(b*c*(m - 1) + a*d*n) + (2*a*b*c + a^2*d - b^2*d)*(m + n - 1)*Tan[e + f*x] + b*(b*c*n + a*d*(2*m + n - 2))*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && GtQ[m, 1] && GtQ[n, 0] && IntegerQ[2*n]`
4054. `Int[1/(((a_) + (b_.)*tan[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])), x_Symbol] := Simp[(a*c - b*d)*(x/((a^2 + b^2)*(c^2 + d^2))), x] + (Simp[b^2/((b*c - a*d)*(a^2 + b^2)) Int[(b - a*Tan[e + f*x])/(a + b*Tan[e + f*x]), x], x] - Simp[d^2/((b*c - a*d)*(c^2 + d^2)) Int[(d - c*Tan[e + f*x])/(c + d*Tan[e + f*x]), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0]`



4055.  $\text{Int}[\text{Sqrt}[(a_.) + (b_.)\text{tan}[(e_.) + (f_.)(x_.)]]/((c_.) + (d_.)\text{tan}[(e_.) + (f_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[1/(c^2 + d^2) \text{Int}[\text{Simp}[a*c + b*d + (b*c - a*d)*\text{Tan}[e + f*x], x]/\text{Sqrt}[a + b*\text{Tan}[e + f*x]], x], x] - \text{Simp}[d*((b*c - a*d)/(c^2 + d^2)) \text{Int}[(1 + \text{Tan}[e + f*x]^2)/(\text{Sqrt}[a + b*\text{Tan}[e + f*x]]*(c + d*\text{Tan}[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4056.  $\text{Int}[((a_.) + (b_.)\text{tan}[(e_.) + (f_.)(x_.)])^{3/2}/((c_.) + (d_.)\text{tan}[(e_.) + (f_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[1/(c^2 + d^2) \text{Int}[\text{Simp}[a^2*c - b^2*c + 2*a*b*d + (2*a*b*c - a^2*d + b^2*d)*\text{Tan}[e + f*x], x]/\text{Sqrt}[a + b*\text{Tan}[e + f*x]], x], x] + \text{Simp}[(b*c - a*d)^2/(c^2 + d^2) \text{Int}[(1 + \text{Tan}[e + f*x]^2)/(\text{Sqrt}[a + b*\text{Tan}[e + f*x]]*(c + d*\text{Tan}[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4057.  $\text{Int}[((a_.) + (b_.)\text{tan}[(e_.) + (f_.)(x_.)])^{(m_)} / ((c_.) + (d_.)\text{tan}[(e_.) + (f_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[1/(c^2 + d^2) \text{Int}[(a + b*\text{Tan}[e + f*x])^m*(c - d*\text{Tan}[e + f*x]), x], x] + \text{Simp}[d^2/(c^2 + d^2) \text{Int}[(a + b*\text{Tan}[e + f*x])^m*((1 + \text{Tan}[e + f*x]^2)/(c + d*\text{Tan}[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& !\text{IntegerQ}[m]$
4058.  $\text{Int}[((a_.) + (b_.)\text{tan}[(e_.) + (f_.)(x_.)])^{(m_)}*((c_.) + (d_.)\text{tan}[(e_.) + (f_.)(x_.)])^{(n_)}, x\_Symbol] \rightarrow \text{With}\{\text{ff} = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[\text{ff}/f \text{Subst}[\text{Int}[(a + b*\text{ff}*x)^m*((c + d*\text{ff}*x)^n/(1 + \text{ff}^2*x^2)), x], x, \text{Tan}[e + f*x]/\text{ff}], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4059.  $\text{Int}(((d_.)/\text{tan}[(e_.) + (f_.)(x_.)])^{(n_)}*((a_.) + (b_.)\text{tan}[(e_.) + (f_.)(x_.)])^{(m_)}, x\_Symbol] \rightarrow \text{Simp}[d^m \text{Int}[(b + a*\text{Cot}[e + f*x])^m*(d*\text{Cot}[e + f*x])^{(n - m)}, x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x] \&\& !\text{IntegerQ}[n] \&\& \text{IntegerQ}[m]$
4060.  $\text{Int}(((a_.) + \text{cot}[(e_.) + (f_.)(x_.)]*(b_.))^{(m_)}*((d_.)/\text{cot}[(e_.) + (f_.)(x_.)])^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[d^m \text{Int}[(b + a*\text{Tan}[e + f*x])^m*(d*\text{Tan}[e + f*x])^{(n - m)}, x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x] \&\& !\text{IntegerQ}[n] \&\& \text{IntegerQ}[m]$

4061.  $\text{Int}[(c_.) * ((d_.) * \tan[(e_.) + (f_.) * (x_.)])^{(p_.)}]^{(n_.)} * ((a_.) + (b_.) * \tan[(e_.) + (f_.) * (x_.)])^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[n]} * ((c * (d * \tan[e + f * x])^p)^{\text{FracPart}[n]} / (d * \tan[e + f * x])^{(p * \text{FracPart}[n])}) \text{Int}[(a + b * \tan[e + f * x])^m * (d * \tan[e + f * x])^{(n * p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{!IntegerQ}[n] \&\& \text{!IntegerQ}[m]$
4062.  $\text{Int}[(a_.) + \cot[(e_.) + (f_.) * (x_.)] * (b_.)]^{(m_.)} * ((c_.) * (\cot[(e_.) + (f_.) * (x_.)] * (d_.) + (c_.) * \cot[(e_.) + (f_.) * (x_.)])^{(p_.)})^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[n]} * ((c * (d * \cot[e + f * x])^p)^{\text{FracPart}[n]} / (d * \cot[e + f * x])^{(p * \text{FracPart}[n])}) \text{Int}[(a + b * \cot[e + f * x])^m * (d * \cot[e + f * x])^{(n * p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{!IntegerQ}[n] \&\& \text{!IntegerQ}[m]$
4063.  $\text{Int}[(g_.) * \tan[(e_.) + (f_.) * (x_.)]^{(p_.)} * ((a_.) + (b_.) * \tan[(e_.) + (f_.) * (x_.)])^{(m_.)} * ((c_.) + (d_.) * \tan[(e_.) + (f_.) * (x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Unintegrable}[(g * \tan[e + f * x])^p * (a + b * \tan[e + f * x])^m * (c + d * \tan[e + f * x])^n, x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x]$
4064.  $\text{Int}[(\cot[(e_.) + (f_.) * (x_.)] * (g_.) + (a_.) + (b_.) * \tan[(e_.) + (f_.) * (x_.)])^{(m_.)} * ((c_.) + (d_.) * \tan[(e_.) + (f_.) * (x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[g^{(m + n)} \text{Int}[(g * \cot[e + f * x])^{(p - m - n)} * (b + a * \cot[e + f * x])^m * (d + c * \cot[e + f * x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[n]$
4065.  $\text{Int}[(a_.) + \cot[(e_.) + (f_.) * (x_.)] * (b_.)]^{(m_.)} * (\cot[(e_.) + (f_.) * (x_.)] * (d_.) + (c_.) + (g_.) * \tan[(e_.) + (f_.) * (x_.)])^{(n_.)} * ((g_.) * \tan[(e_.) + (f_.) * (x_.)])^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[g^{(m + n)} \text{Int}[(g * \tan[e + f * x])^{(p - m - n)} * (b + a * \tan[e + f * x])^m * (d + c * \tan[e + f * x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[n]$
4066.  $\text{Int}[(g_.) * \tan[(e_.) + (f_.) * (x_.)]^{(q_.)}]^{(p_.)} * ((a_.) + (b_.) * \tan[(e_.) + (f_.) * (x_.)])^{(m_.)} * ((c_.) + (d_.) * \tan[(e_.) + (f_.) * (x_.)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(g * \tan[e + f * x]^q)^p / (g * \tan[e + f * x])^{(p * q)} \text{Int}[(g * \tan[e + f * x])^{(p * q)} * (a + b * \tan[e + f * x])^m * (c + d * \tan[e + f * x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p, q\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{!IntegerQ}[m] \&\& \text{IntegerQ}[n]$

4067.  $\text{Int}[(\cot[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}) + (c_{.}))^{(n_{.})}*((g_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(p_{.})}*((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[g^n \text{Int}[(g*\tan[e + f*x])^{(p - n)}*(a + b*\tan[e + f*x])^m*(d + c*\tan[e + f*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, p\}, x] \&\& \text{IntegerQ}[n]$
4068.  $\text{Int}[(\cot[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}) + (c_{.}))^{(n_{.})}*\tan[(e_{.}) + (f_{.})*(x_{.})]^{(p_{.})}*((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Int}[(b + a*\cot[e + f*x])^m*((c + d*\cot[e + f*x])^n/\cot[e + f*x]^{(m + p)}), x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& !\text{IntegerQ}[n] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[p]$
4069.  $\text{Int}[(\cot[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}) + (c_{.}))^{(n_{.})}*((g_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(p_{.})}*((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\cot[e + f*x]^p*(g*\tan[e + f*x])^p \text{Int}[(b + a*\cot[e + f*x])^m*((c + d*\cot[e + f*x])^n/\cot[e + f*x]^{(m + p)}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n, p\}, x] \&\& !\text{IntegerQ}[n] \&\& \text{IntegerQ}[m] \&\& !\text{IntegerQ}[p]$
4070.  $\text{Int}[(\cot[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}) + (c_{.}))^{(n_{.})}*((g_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(p_{.})}*((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(g*\tan[e + f*x])^n*((c + d*\cot[e + f*x])^n/(d + c*\tan[e + f*x])^n) \text{Int}[(g*\tan[e + f*x])^{(p - n)}*(a + b*\tan[e + f*x])^m*(d + c*\tan[e + f*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& !\text{IntegerQ}[n] \&\& !\text{IntegerQ}[m]$
4071.  $\text{Int}[((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(m_{.})}*((A_{.}) + (B_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})}*((c_{.}) + (d_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[a*(c/f) \text{Subst}[\text{Int}[(a + b*x)^{(m - 1)}*(c + d*x)^{(n - 1)}*(A + B*x), x], x, \tan[e + f*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, m, n\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0]$
4072.  $\text{Int}[(((A_{.}) + (B_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])*((c_{.}) + (d_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})]))/((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})]), x_{\text{Symbol}}] \rightarrow \text{Simp}[B*(d/b) \text{Int}[\tan[e + f*x], x], x] + \text{Simp}[1/b \text{Int}[\text{Simp}[A*b*c + (A*b*d + B*(b*c - a*d))*\tan[e + f*x], x]/(a + b*\tan[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$

4073. `Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_) + (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])`, x\_Symbol] :> `Simp[(-A*b - a*B)*(a*c + b*d)*((a + b*Tan[e + f*x])^m/(2*a^2*f*m))`, x] + `Simp[1/(2*a*b) Int[(a + b*Tan[e + f*x])^(m + 1)*Simp[A*b*c + a*B*c + a*A*d + b*B*d + 2*a*B*d*Tan[e + f*x]`, x], x] /; `FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && LtQ[m, -1] && EqQ[a^2 + b^2, 0]`
4074. `Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_) + (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])`, x\_Symbol] :> `Simp[(b*c - a*d)*(A*b - a*B)*((a + b*Tan[e + f*x])^(m + 1)/(b*f*(m + 1)*(a^2 + b^2)))`, x] + `Simp[1/(a^2 + b^2) Int[(a + b*Tan[e + f*x])^(m + 1)*Simp[a*A*c + b*B*c + A*b*d - a*B*d - (A*b*c - a*B*c - a*A*d - b*B*d)*Tan[e + f*x]`, x], x] /; `FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && LtQ[m, -1] && NeQ[a^2 + b^2, 0]`
4075. `Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_) + (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])`, x\_Symbol] :> `Simp[B*d*((a + b*Tan[e + f*x])^(m + 1)/(b*f*(m + 1)))`, x] + `Int[(a + b*Tan[e + f*x])^m*Simp[A*c - B*d + (B*c + A*d)*Tan[e + f*x]`, x], x] /; `FreeQ[{a, b, c, d, e, f, A, B, m}, x] && NeQ[b*c - a*d, 0] && !LeQ[m, -1]`
4076. `Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_) + (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])^(n_)`, x\_Symbol] :> `Simp[(-a^2)*(B*c - A*d)*(a + b*Tan[e + f*x])^(m - 1)*((c + d*Tan[e + f*x])^(n + 1)/(d*f*(b*c + a*d)*(n + 1)))`, x] - `Simp[a/(d*(b*c + a*d)*(n + 1) Int[(a + b*Tan[e + f*x])^(m - 1)*(c + d*Tan[e + f*x])^(n + 1)*Simp[A*b*d*(m - n - 2) - B*(b*c*(m - 1) + a*d*(n + 1)) + (a*A*d*(m + n) - B*(a*c*(m - 1) + b*d*(n + 1)))*Tan[e + f*x]`, x], x], x] /; `FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 + b^2, 0] && GtQ[m, 1] && LtQ[n, -1]`
4077. `Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_) + (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])^(n_)`, x\_Symbol] :> `Simp[b*B*(a + b*Tan[e + f*x])^(m - 1)*((c + d*Tan[e + f*x])^(n`

- $$+ 1)/(d*f*(m + n))), x] + \text{Simp}[1/(d*(m + n)) \text{ Int}[(a + b*\text{Tan}[e + f*x])^{m-1}*(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[a*A*d*(m + n) + B*(a*c*(m - 1) - b*d*(n + 1)) - (B*(b*c - a*d)*(m - 1) - d*(A*b + a*B))*(m + n))*\text{Tan}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{GtQ}[m, 1] \&\& \text{!LtQ}[n, -1]$$
4078. 
$$\text{Int}[(a + b*\text{Tan}[e + f*x])^m*((A + B*\text{Tan}[e + f*x])^n*(c + d*\text{Tan}[e + f*x])^n), x\_Symbol] \text{:>} \text{Simp}[(-A*b - a*B)*(a + b*\text{Tan}[e + f*x])^m*(c + d*\text{Tan}[e + f*x])^n/(2*a*f*m), x] + \text{Simp}[1/(2*a^2*m) \text{ Int}[(a + b*\text{Tan}[e + f*x])^{m+1}*(c + d*\text{Tan}[e + f*x])^{n-1}*\text{Simp}[A*(a*c*m + b*d*n) - B*(b*c*m + a*d*n) - d*(b*B*(m - n) - a*A*(m + n))*\text{Tan}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{LtQ}[m, 0] \&\& \text{GtQ}[n, 0]$$
4079. 
$$\text{Int}[(a + b*\text{Tan}[e + f*x])^m*((A + B*\text{Tan}[e + f*x])^n*(c + d*\text{Tan}[e + f*x])^n), x\_Symbol] \text{:>} \text{Simp}[(a*A + b*B)*(a + b*\text{Tan}[e + f*x])^m*(c + d*\text{Tan}[e + f*x])^{n+1}/(2*f*m*(b*c - a*d)), x] + \text{Simp}[1/(2*a*m*(b*c - a*d)) \text{ Int}[(a + b*\text{Tan}[e + f*x])^{m+1}*(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[A*(b*c*m - a*d*(2*m + n + 1)) + B*(a*c*m - b*d*(n + 1)) + d*(A*b - a*B)*(m + n + 1)*\text{Tan}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{LtQ}[m, 0] \&\& \text{!GtQ}[n, 0]$$
4080. 
$$\text{Int}[(a + b*\text{Tan}[e + f*x])^m*((A + B*\text{Tan}[e + f*x])^n*(c + d*\text{Tan}[e + f*x])^n), x\_Symbol] \text{:>} \text{Simp}[B*(a + b*\text{Tan}[e + f*x])^m*((c + d*\text{Tan}[e + f*x])^n/(f*(m + n))), x] + \text{Simp}[1/(a*(m + n)) \text{ Int}[(a + b*\text{Tan}[e + f*x])^m*(c + d*\text{Tan}[e + f*x])^{n-1}*\text{Simp}[a*A*c*(m + n) - B*(b*c*m + a*d*n) + (a*A*d*(m + n) - B*(b*d*m - a*c*n))*\text{Tan}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& \text{GtQ}[n, 0]$$
4081. 
$$\text{Int}[(a + b*\text{Tan}[e + f*x])^m*((A + B*\text{Tan}[e + f*x])^n*(c + d*\text{Tan}[e + f*x])^n), x\_Symbol] \text{:>} \text{Simp}[(A*d - B*c)*(a + b*\text{Tan}[e + f*x])^m*(c + d*\text{Tan}[e + f*x])^{n+1}/(f*(n + 1)*(c^2 + d^2)), x] - \text{Simp}[1/(a*(n + 1)*(c^2 + d^2))$$

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Int[(a + b*Tan[e + f*x])^m*(c + d*Tan[e + f*x])^(n + 1)*Simp[A*(b*d*m
- a*c*(n + 1)) - B*(b*c*m + a*d*(n + 1)) - a*(B*c - A*d)*(m + n + 1)*
Tan[e + f*x], x], x] /; FreeQ[{a, b, c, d, e, f, A, B, m}, x] && NeQ[
b*c - a*d, 0] && EqQ[a^2 + b^2, 0] && LtQ[n, -1]

4082. Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_)
+ (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])^(n_), x_Symbol]
:> Simp[b*(B/f) Subst[Int[(a + b*x)^(m - 1)*(c + d*x)^n, x], x,
Tan[e + f*x]], x] /; FreeQ[{a, b, c, d, e, f, A, B, m, n}, x] && NeQ[b
*c - a*d, 0] && EqQ[a^2 + b^2, 0] && EqQ[A*b + a*B, 0]

4083. Int[(((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_)
+ (f_)*(x_)]))/((c_) + (d_)*tan[(e_) + (f_)*(x_)]), x_Symbol]
:> Simp[(A*b + a*B)/(b*c + a*d) Int[(a + b*Tan[e + f*x])^m, x], x]
- Simp[(B*c - A*d)/(b*c + a*d) Int[(a + b*Tan[e + f*x])^m*((a - b*Tan
[e + f*x])/(c + d*Tan[e + f*x])), x], x] /; FreeQ[{a, b, c, d, e, f,
A, B, m}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[A*b + a*
B, 0]

4084. Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_)
+ (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])^(n_), x_Symbol]
:> Simp[(A*b + a*B)/b Int[(a + b*Tan[e + f*x])^m*(c + d*Tan[e +
f*x])^n, x], x] - Simp[B/b Int[(a + b*Tan[e + f*x])^m*(c + d*Tan[e +
f*x])^n*(a - b*Tan[e + f*x]), x], x] /; FreeQ[{a, b, c, d, e, f, A, B,
m, n}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 + b^2, 0] && NeQ[A*b + a*B,
0]

4085. Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_)
+ (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])^(n_), x_Symbol]
:> Simp[A^2/f Subst[Int[(a + b*x)^m*((c + d*x)^n/(A - B*x)), x],
x, Tan[e + f*x]], x] /; FreeQ[{a, b, c, d, e, f, A, B, m, n}, x] && NeQ[
b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && !IntegerQ[m] && !IntegerQ[n]
&& !IntegersQ[2*m, 2*n] && EqQ[A^2 + B^2, 0]

4086. Int[((a_) + (b_)*tan[(e_) + (f_)*(x_)])^(m_)*((A_) + (B_)*tan[(e_)
+ (f_)*(x_)])*((c_) + (d_)*tan[(e_) + (f_)*(x_)])^(n_), x_Symbol]
:> Simp[(A + I*B)/2 Int[(a + b*Tan[e + f*x])^m*(c + d*Tan[e + f

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x])^n(1 - I*Tan[e + f*x]), x], x] + Simp[(A - I*B)/2 Int[(a + b*Tan
n[e + f*x])^m*(c + d*Tan[e + f*x])^n*(1 + I*Tan[e + f*x]), x], x] /; F
reeQ[{a, b, c, d, e, f, A, B, m, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^
2 + b^2, 0] && !IntegerQ[m] && !IntegerQ[n] && !IntegersQ[2*m, 2*n]
&& NeQ[A^2 + B^2, 0]

4087. Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^2*((A_.) + (B_.)*tan[(e_.)
+ (f_.)*(x_)])*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Symbol
] :> Simp[(- (B*c - A*d))*(b*c - a*d)^2*((c + d*Tan[e + f*x])^(n + 1)/(
f*d^2*(n + 1)*(c^2 + d^2))), x] + Simp[1/(d*(c^2 + d^2)) Int[(c + d*
Tan[e + f*x])^(n + 1)*Simp[B*(b*c - a*d)^2 + A*d*(a^2*c - b^2*c + 2*a*
b*d) + d*(B*(a^2*c - b^2*c + 2*a*b*d) + A*(2*a*b*c - a^2*d + b^2*d))*T
an[e + f*x] + b^2*B*(c^2 + d^2)*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a
, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] &
& NeQ[c^2 + d^2, 0] && LtQ[n, -1]

4088. Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_)*((A_.) + (B_.)*tan[(e
.) + (f.)*(x_)])*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Sym
bol] :> Simp[(b*c - a*d)*(B*c - A*d)*(a + b*Tan[e + f*x])^(m - 1)*((c
+ d*Tan[e + f*x])^(n + 1)/(d*f*(n + 1)*(c^2 + d^2))), x] - Simp[1/(d*(
n + 1)*(c^2 + d^2)) Int[(a + b*Tan[e + f*x])^(m - 2)*(c + d*Tan[e +
f*x])^(n + 1)*Simp[a*A*d*(b*d*(m - 1) - a*c*(n + 1)) + (b*B*c - (A*b +
a*B)*d)*(b*c*(m - 1) + a*d*(n + 1)) - d*((a*A - b*B)*(b*c - a*d) + (A
*b + a*B)*(a*c + b*d))*(n + 1)*Tan[e + f*x] - b*(d*(A*b*c + a*B*c - a*
A*d)*(m + n) - b*B*(c^2*(m - 1) - d^2*(n + 1)))*Tan[e + f*x]^2, x], x]
, x] /; FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && NeQ
[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && GtQ[m, 1] && LtQ[n, -1] && (Int
egerQ[m] || IntegersQ[2*m, 2*n])

4089. Int[(((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^2*((A_.) + (B_.)*tan[(e_.)
+ (f_.)*(x_)]))/((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)]), x_Symbol] :
> Simp[b^2*B*(Tan[e + f*x]/(d*f)), x] + Simp[1/d Int[(a^2*A*d - b^2*
B*c + (2*a*A*b + B*(a^2 - b^2))*d*Tan[e + f*x] + (A*b^2*d - b*B*(b*c -
2*a*d))*Tan[e + f*x]^2)/(c + d*Tan[e + f*x]), x], x] /; FreeQ[{a, b,
c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ
[c^2 + d^2, 0]

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4090.  $\text{Int}[(a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]^{(m_.)}((A_.) + (B_.)\tan[(e_.) + (f_.)(x_.)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[b*B*(a + b*\tan[e + f*x])^{(m - 1)}((c + d*\tan[e + f*x])^{(n + 1)} / (d*f*(m + n))), x] + \text{Simp}[1 / (d*(m + n)) \text{Int}[(a + b*\tan[e + f*x])^{(m - 2)}(c + d*\tan[e + f*x])^n * \text{Simp}[a^2*A*d*(m + n) - b*B*(b*c*(m - 1) + a*d*(n + 1)) + d*(m + n)*(2*a*A*b + B*(a^2 - b^2))*\tan[e + f*x] - (b*B*(b*c - a*d)*(m - 1) - b*(A*b + a*B)*d*(m + n))*\tan[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{GtQ}[m, 1] \&\& (\text{IntegerQ}[m] || \text{IntegersQ}[2*m, 2*n]) \&\& !( \text{IGtQ}[n, 1] \&\& ( !\text{IntegerQ}[m] || (\text{EqQ}[c, 0] \&\& \text{NeQ}[a, 0])) )$
4091.  $\text{Int}[(a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]^{(m_.)}((A_.) + (B_.)\tan[(e_.) + (f_.)(x_.)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(A*b - a*B)*(a + b*\tan[e + f*x])^{(m + 1)}((c + d*\tan[e + f*x])^n / (f*(m + 1)*(a^2 + b^2))), x] + \text{Simp}[1 / (b*(m + 1)*(a^2 + b^2)) \text{Int}[(a + b*\tan[e + f*x])^{(m + 1)}(c + d*\tan[e + f*x])^{(n - 1)} * \text{Simp}[b*B*(b*c*(m + 1) + a*d*n) + A*b*(a*c*(m + 1) - b*d*n) - b*(A*(b*c - a*d) - B*(a*c + b*d))*(m + 1)*\tan[e + f*x] - b*d*(A*b - a*B)*(m + n + 1)*\tan[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{LtQ}[0, n, 1] \&\& (\text{IntegerQ}[m] || \text{IntegersQ}[2*m, 2*n])$
4092.  $\text{Int}[(a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]^{(m_.)}((A_.) + (B_.)\tan[(e_.) + (f_.)(x_.)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[b*(A*b - a*B)*(a + b*\tan[e + f*x])^{(m + 1)}((c + d*\tan[e + f*x])^{(n + 1)} / (f*(m + 1)*(b*c - a*d)*(a^2 + b^2))), x] + \text{Simp}[1 / ((m + 1)*(b*c - a*d)*(a^2 + b^2)) \text{Int}[(a + b*\tan[e + f*x])^{(m + 1)}(c + d*\tan[e + f*x])^n * \text{Simp}[b*B*(b*c*(m + 1) + a*d*(n + 1)) + A*(a*(b*c - a*d)*(m + 1) - b^2*d*(m + n + 2)) - (A*b - a*B)*(b*c - a*d)*(m + 1)*\tan[e + f*x] - b*d*(A*b - a*B)*(m + n + 2)*\tan[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{LtQ}[m, -1] \&\& (\text{IntegerQ}[m] || \text{IntegersQ}[2*m, 2*n]) \&\& !( \text{ILtQ}[n, -1] \&\& ( !\text{IntegerQ}[m] || (\text{EqQ}[c, 0] \&\& \text{NeQ}[a, 0])) )$
4093.  $\text{Int}[(a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]^{(m_.)}((A_.) + (B_.)\tan[(e_.) + (f_.)(x_.)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(A*b - a*B)*(a + b*\tan[e + f*x])^{(m + 1)}((c + d*\tan[e + f*x])^n / (f*(m + 1)*(a^2 + b^2))), x] + \text{Simp}[1 / (b*(m + 1)*(a^2 + b^2)) \text{Int}[(a + b*\tan[e + f*x])^{(m + 1)}(c + d*\tan[e + f*x])^{(n - 1)} * \text{Simp}[b*B*(b*c*(m + 1) + a*d*n) + A*b*(a*c*(m + 1) - b*d*n) - b*(A*(b*c - a*d) - B*(a*c + b*d))*(m + 1)*\tan[e + f*x] - b*d*(A*b - a*B)*(m + n + 1)*\tan[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{LtQ}[m, -1] \&\& (\text{IntegerQ}[m] || \text{IntegersQ}[2*m, 2*n]) \&\& !( \text{ILtQ}[n, -1] \&\& ( !\text{IntegerQ}[m] || (\text{EqQ}[c, 0] \&\& \text{NeQ}[a, 0])) )$



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bol] := Simp[B*(a + b*Tan[e + f*x])^m*((c + d*Tan[e + f*x])^n/(f*(m +
n))), x] + Simp[1/(m + n) Int[(a + b*Tan[e + f*x])^(m - 1)*(c + d*Ta
n[e + f*x])^(n - 1)*Simp[a*A*c*(m + n) - B*(b*c*m + a*d*n) + (A*b*c +
a*B*c + a*A*d - b*B*d)*(m + n)*Tan[e + f*x] + (A*b*d*(m + n) + B*(a*d*
m + b*c*n))*Tan[e + f*x]^2, x], x] /; FreeQ[{a, b, c, d, e, f, A,
B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0]
&& LtQ[0, m, 1] && LtQ[0, n, 1]

4094. Int[((A_.) + (B_.)*tan[(e_.) + (f_.)*(x_)])/((a_.) + (b_.)*tan[(e_.) +
(f_.)*(x_)])*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)]), x_Symbol] := S
imp[(B*(b*c + a*d) + A*(a*c - b*d))*(x/((a^2 + b^2)*(c^2 + d^2))), x]
+ (Simp[b*((A*b - a*B)/((b*c - a*d)*(a^2 + b^2))) Int[(b - a*Tan[e +
f*x])/(a + b*Tan[e + f*x]), x], x] + Simp[d*((B*c - A*d)/((b*c - a*d)
*(c^2 + d^2))) Int[(d - c*Tan[e + f*x])/(c + d*Tan[e + f*x]), x], x]
) /; FreeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^
2 + b^2, 0] && NeQ[c^2 + d^2, 0]

4095. Int[((A_.) + (B_.)*tan[(e_.) + (f_.)*(x_)])*Sqrt[(c_.) + (d_.)*tan[(e
_.) + (f_.)*(x_)])/((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]), x_Symbol]
:= Simp[1/(a^2 + b^2) Int[Simp[A*(a*c + b*d) + B*(b*c - a*d) - (A*(
b*c - a*d) - B*(a*c + b*d))*Tan[e + f*x], x]/Sqrt[c + d*Tan[e + f*x]],
x], x] - Simp[(b*c - a*d)*((B*a - A*b)/(a^2 + b^2)) Int[(1 + Tan[e
+ f*x]^2)/((a + b*Tan[e + f*x])*Sqrt[c + d*Tan[e + f*x])], x], x] /; F
reeQ[{a, b, c, d, e, f, A, B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^
2, 0] && NeQ[c^2 + d^2, 0]

4096. Int[((A_.) + (B_.)*tan[(e_.) + (f_.)*(x_)])*((c_.) + (d_.)*tan[(e_.)
+ (f_.)*(x_)])^(n_))/((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]), x_Symbol
] := Simp[1/(a^2 + b^2) Int[(c + d*Tan[e + f*x])^n*Simp[a*A + b*B -
(A*b - a*B)*Tan[e + f*x], x], x], x] + Simp[b*((A*b - a*B)/(a^2 + b^2)
) Int[(c + d*Tan[e + f*x])^n*((1 + Tan[e + f*x]^2)/(a + b*Tan[e + f*
x])), x], x] /; FreeQ[{a, b, c, d, e, f, A, B, n}, x] && NeQ[b*c - a*d
, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0]

4097. Int[(Sqrt[(a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])*((A_.) + (B_.)*tan[(e
_.) + (f_.)*(x_)])]/Sqrt[(c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)]), x_Sym
bol] := Int[Simp[a*A - b*B + (A*b + a*B)*Tan[e + f*x], x]/(Sqrt[a + b*

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- $$\text{Tan}[e + f*x] * \text{Sqrt}[c + d*\text{Tan}[e + f*x]], x] + \text{Simp}[b*B \text{ Int}[(1 + \text{Tan}[e + f*x]^2)/(\text{Sqrt}[a + b*\text{Tan}[e + f*x]] * \text{Sqrt}[c + d*\text{Tan}[e + f*x]]), x], x] /;$$

$$\text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$$
4098.
$$\text{Int}[(a_. + (b_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(m_.)} * ((A_.) + (B_.)*\text{tan}[(e_.) + (f_.)*(x_.)]) * ((c_.) + (d_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[A^2/f \text{ Subst}[\text{Int}[(a + b*x)^m * ((c + d*x)^n / (A - B*x)), x], x, \text{Tan}[e + f*x]], x] /;$$

$$\text{FreeQ}\{a, b, c, d, e, f, A, B, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{EqQ}[A^2 + B^2, 0]$$
4099.
$$\text{Int}[(a_. + (b_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(m_.)} * ((A_.) + (B_.)*\text{tan}[(e_.) + (f_.)*(x_.)]) * ((c_.) + (d_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(A + I*B)/2 \text{ Int}[(a + b*\text{Tan}[e + f*x])^m * (c + d*\text{Tan}[e + f*x])^n * (1 - I*\text{Tan}[e + f*x]), x], x] + \text{Simp}[(A - I*B)/2 \text{ Int}[(a + b*\text{Tan}[e + f*x])^m * (c + d*\text{Tan}[e + f*x])^n * (1 + I*\text{Tan}[e + f*x]), x], x] /;$$

$$\text{FreeQ}\{a, b, c, d, e, f, A, B, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[A^2 + B^2, 0]$$
4100.
$$\text{Int}[(a_. + (b_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(m_.)} * ((A_.) + (C_.)*\text{tan}[(e_.) + (f_.)*(x_.)]^2), x_Symbol] \rightarrow \text{Simp}[A/(b*f) \text{ Subst}[\text{Int}[(a + x)^m, x], x, b*\text{Tan}[e + f*x]], x] /;$$

$$\text{FreeQ}\{a, b, e, f, A, C, m\}, x] \&\& \text{EqQ}[A, C]$$
4101.
$$\text{Int}[(a_. + \text{cot}[(e_.) + (f_.)*(x_.)] * (b_.))^{(m_.)} * (\text{cot}[(e_.) + (f_.)*(x_.)]^2 * (C_.) + (A_.)), x_Symbol] \rightarrow \text{Simp}[-A/(b*f) \text{ Subst}[\text{Int}[(a + x)^m, x], x, b*\text{Cot}[e + f*x]], x] /;$$

$$\text{FreeQ}\{a, b, e, f, A, C, m\}, x] \&\& \text{EqQ}[A, C]$$
4102.
$$\text{Int}[(a_. + (b_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(m_.)} * ((A_.) + (B_.)*\text{tan}[(e_.) + (f_.)*(x_.)] + (C_.)*\text{tan}[(e_.) + (f_.)*(x_.)]^2), x_Symbol] \rightarrow \text{Simp}[1/b^2 \text{ Int}[(a + b*\text{Tan}[e + f*x])^{(m+1)} * \text{Simp}[b*B - a*C + b*C*\text{Tan}[e + f*x], x], x], x] /;$$

$$\text{FreeQ}\{a, b, e, f, A, B, C, m\}, x] \&\& \text{EqQ}[A*b^2 - a*b*B + a^2*C, 0]$$
4103.
$$\text{Int}[(a_. + (b_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(m_.)} * ((A_.) + (C_.)*\text{tan}[(e_.) + (f_.)*(x_.)]^2), x_Symbol] \rightarrow \text{Simp}[-C/b^2 \text{ Int}[(a + b*\text{Tan}[e + f$$

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x])^(m + 1)(a - b*Tan[e + f*x]), x], x] /; FreeQ[{a, b, e, f, A, C,
m}, x] && EqQ[A*b^2 + a^2*C, 0]

4104. Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_.)*((A_.) + (B_.)*tan[(
e_.) + (f_.)*(x_) + (C_.)*tan[(e_.) + (f_.)*(x_)]^2), x_Symbol] :> Si
mp[(-(a*A + b*B - a*C))*Tan[e + f*x]*((a + b*Tan[e + f*x])^m/(2*a*f*m)
), x] + Simp[1/(2*a^2*m) Int[(a + b*Tan[e + f*x])^(m + 1)*Simp[(b*B
- a*C) + a*A*(2*m + 1) - (b*C*(m - 1) + (A*b - a*B)*(m + 1))*Tan[e + f
*x], x], x], x] /; FreeQ[{a, b, e, f, A, B, C}, x] && NeQ[A*b^2 - a*b*
B + a^2*C, 0] && LeQ[m, -1] && EqQ[a^2 + b^2, 0]

4105. Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_.)*((A_.) + (C_.)*tan[(
e_.) + (f_.)*(x_)]^2), x_Symbol] :> Simp[(-(a*A - a*C))*Tan[e + f*x]*
(a + b*Tan[e + f*x])^m/(2*a*f*m), x] + Simp[1/(2*a^2*m) Int[(a + b*
Tan[e + f*x])^(m + 1)*Simp[(-a)*C + a*A*(2*m + 1) - (b*C*(m - 1) + A*b
*(m + 1))*Tan[e + f*x], x], x], x] /; FreeQ[{a, b, e, f, A, C}, x] &&
NeQ[A*b^2 + a^2*C, 0] && LeQ[m, -1] && EqQ[a^2 + b^2, 0]

4106. Int[((A_) + (B_.)*tan[(e_.) + (f_.)*(x_)] + (C_.)*tan[(e_.) + (f_.)*(x
)]^2)/((a.) + (b_.)*tan[(e_.) + (f_.)*(x_)]), x_Symbol] :> Simp[(a*A
+ b*B - a*C)*(x/(a^2 + b^2)), x] + Simp[(A*b^2 - a*b*B + a^2*C)/(a^2
+ b^2) Int[(1 + Tan[e + f*x]^2)/(a + b*Tan[e + f*x]), x], x] /; Free
Q[{a, b, e, f, A, B, C}, x] && NeQ[a^2 + b^2, 0] && EqQ[A*b - a*B - b*
C, 0]

4107. Int[((A_) + (B_.)*tan[(e_.) + (f_.)*(x_)] + (C_.)*tan[(e_.) + (f_.)*(x
)]^2)/tan[(e.) + (f_.)*(x_)], x_Symbol] :> Simp[B*x, x] + (Simp[A
Int[1/Tan[e + f*x], x], x] + Simp[C Int[Tan[e + f*x], x], x]) /; Fre
eQ[{e, f, A, B, C}, x] && NeQ[A, C]

4108. Int[((A_) + (C_.)*tan[(e_.) + (f_.)*(x_)]^2)/tan[(e_.) + (f_.)*(x_)],
x_Symbol] :> Simp[A Int[1/Tan[e + f*x], x], x] + Simp[C Int[Tan[e
+ f*x], x], x] /; FreeQ[{e, f, A, C}, x] && NeQ[A, C]

4109. Int[((A_) + (B_.)*tan[(e_.) + (f_.)*(x_)] + (C_.)*tan[(e_.) + (f_.)*(x
)]^2)/((a.) + (b_.)*tan[(e_.) + (f_.)*(x_)]), x_Symbol] :> Simp[(a*A
+ b*B - a*C)*(x/(a^2 + b^2)), x] + (Simp[(A*b^2 - a*b*B + a^2*C)/(a^2

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- $$+ b^2) \text{ Int}[(1 + \text{Tan}[e + f*x]^2)/(a + b*\text{Tan}[e + f*x]), x], x] - \text{Simp} \\
[(A*b - a*B - b*C)/(a^2 + b^2) \text{ Int}[\text{Tan}[e + f*x], x], x] /; \text{FreeQ}\{a \\
, b, e, f, A, B, C\}, x] \&\& \text{NeQ}[A*b^2 - a*b*B + a^2*C, 0] \&\& \text{NeQ}[a^2 + \\
b^2, 0] \&\& \text{NeQ}[A*b - a*B - b*C, 0]$$
4110. 
$$\text{Int}[(A + C)*\text{tan}[(e + f*x)]^2/(a + b*\text{tan}[(e + f*x)] + \\
(f*x)], x\_Symbol] \rightarrow \text{Simp}[a*(A - C)*(x/(a^2 + b^2)), x] + (\text{Simp} \\
[(a^2*C + A*b^2)/(a^2 + b^2) \text{ Int}[(1 + \text{Tan}[e + f*x]^2)/(a + b*\text{Tan}[e + \\
f*x]), x], x] - \text{Simp}[b*((A - C)/(a^2 + b^2)) \text{ Int}[\text{Tan}[e + f*x], x], \\
x]) /; \text{FreeQ}\{a, b, e, f, A, C\}, x] \&\& \text{NeQ}[a^2*C + A*b^2, 0] \&\& \text{NeQ}[a^2 \\
+ b^2, 0] \&\& \text{NeQ}[A, C]$$
4111. 
$$\text{Int}[(a + b)*\text{tan}[(e + f*x)]^m*((A + B)*\text{tan}[(e \\
+ f*x)] + (C)*\text{tan}[(e + f*x)]^2), x\_Symbol] \rightarrow \text{Simp} \\
[(A*b^2 - a*b*B + a^2*C)*((a + b*\text{Tan}[e + f*x])^{m+1}/(b*f*(m+1)*( \\
a^2 + b^2))), x] + \text{Simp}[1/(a^2 + b^2) \text{ Int}[(a + b*\text{Tan}[e + f*x])^{m+1} \\
*\text{Simp}[b*B + a*(A - C) - (A*b - a*B - b*C)*\text{Tan}[e + f*x], x], x], x] / \\
; \text{FreeQ}\{a, b, e, f, A, B, C\}, x] \&\& \text{NeQ}[A*b^2 - a*b*B + a^2*C, 0] \&\& \\
\text{LtQ}[m, -1] \&\& \text{NeQ}[a^2 + b^2, 0]$$
4112. 
$$\text{Int}[(a + b)*\text{tan}[(e + f*x)]^m*((A + C)*\text{tan}[(e \\
+ f*x)]^2), x\_Symbol] \rightarrow \text{Simp}[(A*b^2 + a^2*C)*((a + b*\text{Tan}[e \\
+ f*x])^{m+1}/(b*f*(m+1)*(a^2 + b^2))), x] + \text{Simp}[1/(a^2 + b^2) \\
\text{Int}[(a + b*\text{Tan}[e + f*x])^{m+1}*\text{Simp}[a*(A - C) - (A*b - b*C)*\text{Tan}[e + \\
f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, C\}, x] \&\& \text{NeQ}[A*b^2 + a^2*C, \\
0] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[a^2 + b^2, 0]$$
4113. 
$$\text{Int}[(a + b)*\text{tan}[(e + f*x)]^m*((A + B)*\text{tan}[(e \\
+ f*x)] + (C)*\text{tan}[(e + f*x)]^2), x\_Symbol] \rightarrow \text{Simp} \\
[C*((a + b*\text{Tan}[e + f*x])^{m+1}/(b*f*(m+1))), x] + \text{Int}[(a + b*\text{Tan} \\
[e + f*x])^m*\text{Simp}[A - C + B*\text{Tan}[e + f*x], x], x] /; \text{FreeQ}\{a, b, e, f, \\
A, B, C, m\}, x] \&\& \text{NeQ}[A*b^2 - a*b*B + a^2*C, 0] \&\& !\text{LeQ}[m, -1]$$
4114. 
$$\text{Int}[(a + b)*\text{tan}[(e + f*x)]^m*((A + C)*\text{tan}[(e \\
+ f*x)]^2), x\_Symbol] \rightarrow \text{Simp}[C*((a + b*\text{Tan}[e + f*x])^{m+1} \\
/(b*f*(m+1))), x] + \text{Simp}[(A - C) \text{ Int}[(a + b*\text{Tan}[e + f*x])^m, x], \\
x] /; \text{FreeQ}\{a, b, e, f, A, C, m\}, x] \&\& \text{NeQ}[A*b^2 + a^2*C, 0] \&\& !\text{L}$$

eQ[m, -1]

4115.  $\text{Int}[\left((a_{.}) + (b_{.})\tan[(e_{.}) + (f_{.})x]\right)^{m_{.}}\left((c_{.}) + (d_{.})\tan[(e_{.}) + (f_{.})x]\right)^{n_{.}}\left((A_{.}) + (B_{.})\tan[(e_{.}) + (f_{.})x] + (C_{.})\tan[(e_{.}) + (f_{.})x]^2\right), x\_Symbol] \rightarrow \text{Simp}[1/b^2 \text{Int}[(a + b\tan[e + f*x])^{m+1}(c + d\tan[e + f*x])^n(b*B - a*C + b*C\tan[e + f*x])], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, n\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[A*b^2 - a*b*B + a^2*C, 0]$

4116.  $\text{Int}[\left((a_{.}) + (b_{.})\tan[(e_{.}) + (f_{.})x]\right)^{m_{.}}\left((c_{.}) + (d_{.})\tan[(e_{.}) + (f_{.})x]\right)^{n_{.}}\left((A_{.}) + (C_{.})\tan[(e_{.}) + (f_{.})x]^2\right), x\_Symbol] \rightarrow \text{Simp}[-C/b^2 \text{Int}[(a + b\tan[e + f*x])^{m+1}(c + d\tan[e + f*x])^n(a - b\tan[e + f*x])], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C, m, n\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[A*b^2 + a^2*C, 0]$

4117.  $\text{Int}[\left((a_{.}) + (b_{.})\tan[(e_{.}) + (f_{.})x]\right)^{m_{.}}\left((c_{.}) + (d_{.})\tan[(e_{.}) + (f_{.})x]\right)^{n_{.}}\left((A_{.}) + (C_{.})\tan[(e_{.}) + (f_{.})x]^2\right), x\_Symbol] \rightarrow \text{Simp}[A/f \text{Subst}[\text{Int}[(a + b*x)^m(c + d*x)^n, x], x, \tan[e + f*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C, m, n\}, x\} \&\& \text{EqQ}[A, C]$

4118.  $\text{Int}[\left((a_{.}) + (b_{.})\tan[(e_{.}) + (f_{.})x]\right)\left((c_{.}) + (d_{.})\tan[(e_{.}) + (f_{.})x]\right)^{n_{.}}\left((A_{.}) + (B_{.})\tan[(e_{.}) + (f_{.})x] + (C_{.})\tan[(e_{.}) + (f_{.})x]^2\right), x\_Symbol] \rightarrow \text{Simp}[(-b*c - a*d)(c^2*C - B*c*d + A*d^2)((c + d\tan[e + f*x])^{n+1}/(d^2*f*(n+1)(c^2 + d^2))), x] + \text{Simp}[1/(d*(c^2 + d^2)) \text{Int}[(c + d\tan[e + f*x])^{n+1} \text{Simp}[a*d*(A*c - c*C + B*d) + b*(c^2*C - B*c*d + A*d^2) + d*(A*b*c + a*B*c - b*c*C - a*A*d + b*B*d + a*C*d)*\tan[e + f*x] + b*C*(c^2 + d^2)*\tan[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{LtQ}[n, -1]$

4119.  $\text{Int}[\left((a_{.}) + (b_{.})\tan[(e_{.}) + (f_{.})x]\right)\left((c_{.}) + (d_{.})\tan[(e_{.}) + (f_{.})x]\right)^{n_{.}}\left((A_{.}) + (C_{.})\tan[(e_{.}) + (f_{.})x]^2\right), x\_Symbol] \rightarrow \text{Simp}[(-b*c - a*d)(c^2*C + A*d^2)((c + d\tan[e + f*x])^{n+1}/(d^2*f*(n+1)(c^2 + d^2))), x] + \text{Simp}[1/(d*(c^2 + d^2)) \text{Int}[(c + d\tan[e + f*x])^{n+1} \text{Simp}[a*d*(A*c - c*C) + b*(c^2*C + A*d^2) + d*(A*b*c - b*c*C - a*A*d + a*C*d)*\tan[e + f*x] + b*C*(c^2 + d^2)*\tan[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C\}, x\} \&\& \text{NeQ}[b*c -$

- $a*d, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{LtQ}[n, -1]$
4120.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}\left((A_{\cdot}) + (B_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] + (C_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[b*C*\text{Tan}[e + f*x]*\left((c + d*\text{Tan}[e + f*x])^{(n + 1)}/(d*f*(n + 2))\right), x] - \text{Simp}[1/(d*(n + 2)) \text{Int}[(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[b*c*C - a*A*d*(n + 2) - (A*b + a*B - b*C)*d*(n + 2)*\text{Tan}[e + f*x] - (a*C*d*(n + 2) - b*(c*C - B*d*(n + 2)))*\text{Tan}[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& !\text{LtQ}[n, -1]$
4121.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)\left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}\left((A_{\cdot}) + (C_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[b*C*\text{Tan}[e + f*x]*\left((c + d*\text{Tan}[e + f*x])^{(n + 1)}/(d*f*(n + 2))\right), x] - \text{Simp}[1/(d*(n + 2)) \text{Int}[(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[b*c*C - a*A*d*(n + 2) - (A*b - b*C)*d*(n + 2)*\text{Tan}[e + f*x] - (a*C*d*(n + 2) - b*c*C)*\text{Tan}[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, C, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& !\text{LtQ}[n, -1]$
4122.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}\left((A_{\cdot}) + (B_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] + (C_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(a*A + b*B - a*C)*(a + b*\text{Tan}[e + f*x])^m*\left((c + d*\text{Tan}[e + f*x])^{(n + 1)}/(2*f*m*(b*c - a*d))\right), x] + \text{Simp}[1/(2*a*m*(b*c - a*d)) \text{Int}[(a + b*\text{Tan}[e + f*x])^{(m + 1)}*(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[b*(c*(A + C)*m - B*d*(n + 1)) + a*(B*c*m + C*d*(n + 1) - A*d*(2*m + n + 1)) + (b*C*d*(m - n - 1) + A*b*d*(m + n + 1) + a*(2*c*C*m - B*d*(m + n + 1)))*\text{Tan}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& (\text{LtQ}[m, 0] || \text{EqQ}[m + n + 1, 0])$
4123.  $\text{Int}[\left((a_{\cdot}) + (b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(m_{\cdot})}\left((c_{\cdot}) + (d_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}\left((A_{\cdot}) + (C_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[a*(A - C)*(a + b*\text{Tan}[e + f*x])^m*\left((c + d*\text{Tan}[e + f*x])^{(n + 1)}/(2*f*m*(b*c - a*d))\right), x] + \text{Simp}[1/(2*a*m*(b*c - a*d)) \text{Int}[(a + b*\text{Tan}[e + f*x])^{(m + 1)}*(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[b*c*(A + C)*m + a*(C*d*(n + 1) - A*d*(2*m + n + 1)) + (b*C*d*(m - n - 1) + A*b*d*(m + n + 1) + 2*a*c*C*m)*\text{Tan}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e,$

$f, A, C, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& (\text{LtQ}[m, 0] \mid\mid \text{EqQ}[m + n + 1, 0])$

4124.  $\text{Int}[(a + (b \cdot \tan(e + f \cdot x)))^m \cdot ((c + d \cdot \tan(e + f \cdot x)))^n \cdot ((A + (B \cdot \tan(e + f \cdot x)) + C) \cdot \tan(e + f \cdot x))^2], x\_Symbol] \rightarrow \text{Simp}[(c^2 \cdot C - B \cdot c \cdot d + A \cdot d^2) \cdot (a + b \cdot \tan(e + f \cdot x))^m \cdot ((c + d \cdot \tan(e + f \cdot x)))^{n+1} / (d \cdot f \cdot (n+1) \cdot (c^2 + d^2)), x] - \text{Simp}[1 / (a \cdot d \cdot (n+1) \cdot (c^2 + d^2)) \text{Int}[(a + b \cdot \tan(e + f \cdot x))^m \cdot (c + d \cdot \tan(e + f \cdot x))^{n+1} \cdot \text{Simp}[b \cdot (c^2 \cdot C - B \cdot c \cdot d + A \cdot d^2) \cdot m - a \cdot d \cdot (n+1) \cdot (A \cdot c - c \cdot C + B \cdot d) - a \cdot (d \cdot (B \cdot c - A \cdot d) \cdot (m + n + 1) - C \cdot (c^2 \cdot m - d^2 \cdot (n+1))) \cdot \tan(e + f \cdot x), x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& !\text{LtQ}[m, 0] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[c^2 + d^2, 0]$

4125.  $\text{Int}[(a + (b \cdot \tan(e + f \cdot x)))^m \cdot ((c + d \cdot \tan(e + f \cdot x)))^n \cdot ((A + (C \cdot \tan(e + f \cdot x)))^2), x\_Symbol] \rightarrow \text{Simp}[(c^2 \cdot C + A \cdot d^2) \cdot (a + b \cdot \tan(e + f \cdot x))^m \cdot ((c + d \cdot \tan(e + f \cdot x)))^{n+1} / (d \cdot f \cdot (n+1) \cdot (c^2 + d^2)), x] - \text{Simp}[1 / (a \cdot d \cdot (n+1) \cdot (c^2 + d^2)) \text{Int}[(a + b \cdot \tan(e + f \cdot x))^m \cdot (c + d \cdot \tan(e + f \cdot x))^{n+1} \cdot \text{Simp}[b \cdot (c^2 \cdot C + A \cdot d^2) \cdot m - a \cdot d \cdot (n+1) \cdot (A \cdot c - c \cdot C) - a \cdot ((-A) \cdot d^2 \cdot (m + n + 1) - C \cdot (c^2 \cdot m - d^2 \cdot (n+1))) \cdot \tan(e + f \cdot x), x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& !\text{LtQ}[m, 0] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[c^2 + d^2, 0]$

4126.  $\text{Int}[(a + (b \cdot \tan(e + f \cdot x)))^m \cdot ((c + d \cdot \tan(e + f \cdot x)))^n \cdot ((A + (B \cdot \tan(e + f \cdot x)) + C) \cdot \tan(e + f \cdot x))^2), x\_Symbol] \rightarrow \text{Simp}[C \cdot (a + b \cdot \tan(e + f \cdot x))^m \cdot ((c + d \cdot \tan(e + f \cdot x)))^{n+1} / (d \cdot f \cdot (m + n + 1)), x] + \text{Simp}[1 / (b \cdot d \cdot (m + n + 1)) \text{Int}[(a + b \cdot \tan(e + f \cdot x))^m \cdot (c + d \cdot \tan(e + f \cdot x))^n \cdot \text{Simp}[A \cdot b \cdot d \cdot (m + n + 1) + C \cdot (a \cdot c \cdot m - b \cdot d \cdot (n + 1)) - (C \cdot m \cdot (b \cdot c - a \cdot d) - b \cdot B \cdot d \cdot (m + n + 1)) \cdot \tan(e + f \cdot x), x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 + b^2, 0] \&\& !\text{LtQ}[m, 0] \&\& \text{NeQ}[m + n + 1, 0]$

4127.  $\text{Int}[(a + (b \cdot \tan(e + f \cdot x)))^m \cdot ((c + d \cdot \tan(e + f \cdot x)))^n \cdot ((A + (C \cdot \tan(e + f \cdot x)))^2), x\_Symbol] \rightarrow \text{Simp}[C \cdot (a + b \cdot \tan(e + f \cdot x))^m \cdot ((c + d \cdot \tan(e + f \cdot x)))^{n+1}$

- $$\frac{1}{(d*f*(m+n+1))}, x] + \text{Simp}[1/(b*d*(m+n+1)) \text{ Int}[(a+b*\text{Tan}[e+f*x])^m*(c+d*\text{Tan}[e+f*x])^n*\text{Simp}[A*b*d*(m+n+1)+C*(a*c*m-b*d*(n+1))-C*m*(b*c-a*d)*\text{Tan}[e+f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C, m, n\}, x] \&\& \text{NeQ}[b*c-a*d, 0] \&\& \text{EqQ}[a^2+b^2, 0] \&\& \text{!LtQ}[m, 0] \&\& \text{NeQ}[m+n+1, 0]$$
4128. 
$$\text{Int}[(a_. + (b_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(m_.)}*((c_.) + (d_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(n_.)}*((A_.) + (B_.)*\text{tan}[(e_.) + (f_.)*(x_.)] + (C_.)*\text{tan}[(e_.) + (f_.)*(x_.)]^2), x\_Symbol] \rightarrow \text{Simp}[(A*d^2 + c*(c*C - B*d)) * (a + b*\text{Tan}[e + f*x])^m*((c + d*\text{Tan}[e + f*x])^{(n+1)})/(d*f*(n+1)*(c^2 + d^2)), x] - \text{Simp}[1/(d*(n+1)*(c^2 + d^2)) \text{ Int}[(a + b*\text{Tan}[e + f*x])^{(m-1)}*(c + d*\text{Tan}[e + f*x])^{(n+1)}*\text{Simp}[A*d*(b*d*m - a*c*(n+1)) + (c*C - B*d)*(b*c*m + a*d*(n+1)) - d*(n+1)*((A - C)*(b*c - a*d) + B*(a*c + b*d))*\text{Tan}[e + f*x] - b*(d*(B*c - A*d)*(m+n+1) - C*(c^2*m - d^2*(n+1)))*\text{Tan}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{GtQ}[m, 0] \&\& \text{LtQ}[n, -1]$$
4129. 
$$\text{Int}[(a_. + (b_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(m_.)}*((c_.) + (d_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(n_.)}*((A_.) + (C_.)*\text{tan}[(e_.) + (f_.)*(x_.)]^2), x\_Symbol] \rightarrow \text{Simp}[(A*d^2 + c^2*C)*(a + b*\text{Tan}[e + f*x])^m*((c + d*\text{Tan}[e + f*x])^{(n+1)})/(d*f*(n+1)*(c^2 + d^2)), x] - \text{Simp}[1/(d*(n+1)*(c^2 + d^2)) \text{ Int}[(a + b*\text{Tan}[e + f*x])^{(m-1)}*(c + d*\text{Tan}[e + f*x])^{(n+1)}*\text{Simp}[A*d*(b*d*m - a*c*(n+1)) + c*C*(b*c*m + a*d*(n+1)) - d*(n+1)*((A - C)*(b*c - a*d))*\text{Tan}[e + f*x] + b*(A*d^2*(m+n+1) + C*(c^2*m - d^2*(n+1)))*\text{Tan}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{GtQ}[m, 0] \&\& \text{LtQ}[n, -1]$$
4130. 
$$\text{Int}[(a_. + (b_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(m_.)}*((c_.) + (d_.)*\text{tan}[(e_.) + (f_.)*(x_.)])^{(n_.)}*((A_.) + (B_.)*\text{tan}[(e_.) + (f_.)*(x_.)] + (C_.)*\text{tan}[(e_.) + (f_.)*(x_.)]^2), x\_Symbol] \rightarrow \text{Simp}[C*(a + b*\text{Tan}[e + f*x])^m*((c + d*\text{Tan}[e + f*x])^{(n+1)})/(d*f*(m+n+1)), x] + \text{Simp}[1/(d*(m+n+1)) \text{ Int}[(a + b*\text{Tan}[e + f*x])^{(m-1)}*(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[a*A*d*(m+n+1) - C*(b*c*m + a*d*(n+1)) + d*(A*b + a*B - b*C)*(m+n+1)*\text{Tan}[e + f*x] - (C*m*(b*c - a*d) - b*B*d*(m+n+1))*\text{Tan}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& \text{GtQ}[m, 0]$$



- `] && !(IGtQ[n, 0] && ( !IntegerQ[m] || (EqQ[c, 0] && NeQ[a, 0])))`
4131. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_.)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_.)*((A_.) + (C_.)*tan[(e_.) + (f_.)*(x_)]^2), x_Symbol] :> Simp[C*(a + b*Tan[e + f*x])^m*((c + d*Tan[e + f*x])^(n + 1)/(d*f*(m + n + 1))), x] + Simp[1/(d*(m + n + 1)) Int[(a + b*Tan[e + f*x])^(m - 1)*(c + d*Tan[e + f*x])^n*Simp[a*A*d*(m + n + 1) - C*(b*c*m + a*d*(n + 1)) + d*(A*b - b*C)*(m + n + 1)*Tan[e + f*x] - C*m*(b*c - a*d)*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, A, C, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && GtQ[m, 0] && !(IGtQ[n, 0] && ( !IntegerQ[m] || (EqQ[c, 0] && NeQ[a, 0])))`
4132. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_.)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_.)*((A_.) + (B_.)*tan[(e_.) + (f_.)*(x_)] + (C_.)*tan[(e_.) + (f_.)*(x_)]^2), x_Symbol] :> Simp[(A*b^2 - a*(b*B - a*C))*(a + b*Tan[e + f*x])^(m + 1)*((c + d*Tan[e + f*x])^(n + 1)/(f*(m + 1)*(b*c - a*d)*(a^2 + b^2))), x] + Simp[1/((m + 1)*(b*c - a*d)*(a^2 + b^2)) Int[(a + b*Tan[e + f*x])^(m + 1)*(c + d*Tan[e + f*x])^n*Simp[A*(a*(b*c - a*d)*(m + 1) - b^2*d*(m + n + 2)) + (b*B - a*C)*(b*c*(m + 1) + a*d*(n + 1)) - (m + 1)*(b*c - a*d)*(A*b - a*B - b*C)*Tan[e + f*x] - d*(A*b^2 - a*(b*B - a*C))*(m + n + 2)*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, A, B, C, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && LtQ[m, -1] && !(ILtQ[n, -1] && ( !IntegerQ[m] || (EqQ[c, 0] && NeQ[a, 0])))`
4133. `Int[((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(m_.)*((c_.) + (d_.)*tan[(e_.) + (f_.)*(x_)])^(n_.)*((A_.) + (C_.)*tan[(e_.) + (f_.)*(x_)]^2), x_Symbol] :> Simp[(A*b^2 + a^2*C)*(a + b*Tan[e + f*x])^(m + 1)*((c + d*Tan[e + f*x])^(n + 1)/(f*(m + 1)*(b*c - a*d)*(a^2 + b^2))), x] + Simp[1/((m + 1)*(b*c - a*d)*(a^2 + b^2)) Int[(a + b*Tan[e + f*x])^(m + 1)*(c + d*Tan[e + f*x])^n*Simp[A*(a*(b*c - a*d)*(m + 1) - b^2*d*(m + n + 2)) - a*C*(b*c*(m + 1) + a*d*(n + 1)) - (m + 1)*(b*c - a*d)*(A*b - b*C)*Tan[e + f*x] - d*(A*b^2 + a^2*C)*(m + n + 2)*Tan[e + f*x]^2, x], x], x] /; FreeQ[{a, b, c, d, e, f, A, C, n}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 + b^2, 0] && NeQ[c^2 + d^2, 0] && LtQ[m, -1] && !(ILtQ[n, -1] && ( !IntegerQ[m] || (EqQ[c, 0] && NeQ[a, 0])))`

4134.  $\text{Int}[\frac{((A_.) + (B_.)\tan[(e_.) + (f_.)(x_.)] + (C_.)\tan[(e_.) + (f_.)(x_.)]^2)/(((a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]*(c_.) + (d_.)\tan[(e_.) + (f_.)(x_.)]))}{x\_Symbol}] := \text{Simp}[(a*(A*c - c*C + B*d) + b*(B*c - A*d + C*d))*(x/((a^2 + b^2)*(c^2 + d^2))), x] + (\text{Simp}[(A*b^2 - a*b*B + a^2*C)/((b*c - a*d)*(a^2 + b^2)) \text{Int}[(b - a*\text{Tan}[e + f*x])/(a + b*\text{Tan}[e + f*x]), x], x] - \text{Simp}[(c^2*C - B*c*d + A*d^2)/((b*c - a*d)*(c^2 + d^2)) \text{Int}[(d - c*\text{Tan}[e + f*x])/(c + d*\text{Tan}[e + f*x]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4135.  $\text{Int}[\frac{((A_.) + (C_.)\tan[(e_.) + (f_.)(x_.)]^2)/(((a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]*(c_.) + (d_.)\tan[(e_.) + (f_.)(x_.)]))}{x\_Symbol}] := \text{Simp}[(a*(A*c - c*C) - b*(A*d - C*d))*(x/((a^2 + b^2)*(c^2 + d^2))), x] + (\text{Simp}[(A*b^2 + a^2*C)/((b*c - a*d)*(a^2 + b^2)) \text{Int}[(b - a*\text{Tan}[e + f*x])/(a + b*\text{Tan}[e + f*x]), x], x] - \text{Simp}[(c^2*C + A*d^2)/((b*c - a*d)*(c^2 + d^2)) \text{Int}[(d - c*\text{Tan}[e + f*x])/(c + d*\text{Tan}[e + f*x]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, A, C\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4136.  $\text{Int}[\frac{(((c_.) + (d_.)\tan[(e_.) + (f_.)(x_.)]))^n*((A_.) + (B_.)\tan[(e_.) + (f_.)(x_.)] + (C_.)\tan[(e_.) + (f_.)(x_.)]^2)/((a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)])}{x\_Symbol}] := \text{Simp}[1/(a^2 + b^2) \text{Int}[(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[b*B + a*(A - C) + (a*B - b*(A - C))*\text{Tan}[e + f*x], x], x], x] + \text{Simp}[(A*b^2 - a*b*B + a^2*C)/(a^2 + b^2) \text{Int}[(c + d*\text{Tan}[e + f*x])^n*((1 + \text{Tan}[e + f*x]^2)/(a + b*\text{Tan}[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& !\text{GtQ}[n, 0] \&\& !\text{LeQ}[n, -1]$
4137.  $\text{Int}[\frac{(((c_.) + (d_.)\tan[(e_.) + (f_.)(x_.)]))^n*((A_.) + (C_.)\tan[(e_.) + (f_.)(x_.)]^2)/((a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)])}{x\_Symbol}] := \text{Simp}[1/(a^2 + b^2) \text{Int}[(c + d*\text{Tan}[e + f*x])^n*\text{Simp}[a*(A - C) - (A*b - b*C)*\text{Tan}[e + f*x], x], x], x] + \text{Simp}[(A*b^2 + a^2*C)/(a^2 + b^2) \text{Int}[(c + d*\text{Tan}[e + f*x])^n*((1 + \text{Tan}[e + f*x]^2)/(a + b*\text{Tan}[e + f*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, C, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0] \&\& !\text{GtQ}[n, 0] \&\& !\text{LeQ}[n, -1]$

4138.  $\text{Int}[(a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]^{(m_.)}((c_.) + (d_.)\tan[(e_.) + (f_.)(x_.)]^{(n_.)}((A_.) + (B_.)\tan[(e_.) + (f_.)(x_.)] + (C_.)\tan[(e_.) + (f_.)(x_.)]^2), x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff/f \text{ Subst}[\text{Int}[(a + b*ff*x)^m*(c + d*ff*x)^n*((A + B*ff*x + C*ff^2*x^2)/(1 + ff^2*x^2)), x], x, \text{Tan}[e + f*x]/ff], x]] / ; \text{FreeQ}[\{a, b, c, d, e, f, A, B, C, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4139.  $\text{Int}[(a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]^{(m_.)}((c_.) + (d_.)\tan[(e_.) + (f_.)(x_.)]^{(n_.)}((A_.) + (C_.)\tan[(e_.) + (f_.)(x_.)]^2), x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff/f \text{ Subst}[\text{Int}[(a + b*ff*x)^m*(c + d*ff*x)^n*((A + C*ff^2*x^2)/(1 + ff^2*x^2)), x], x, \text{Tan}[e + f*x]/ff], x]] / ; \text{FreeQ}[\{a, b, c, d, e, f, A, C, m, n\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 + b^2, 0] \&\& \text{NeQ}[c^2 + d^2, 0]$
4140.  $\text{Int}[(u_.)*((a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u*(a*\text{sec}[e + f*x]^2)^p], x] / ; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{EqQ}[a, b]$
4141.  $\text{Int}[(u_.)*((b_.)\tan[(e_.) + (f_.)(x_.)]^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[(b*ff^n)^{\text{IntPart}[p]}*((b*\text{Tan}[e + f*x]^n)^{\text{FracPart}[p]} / (\text{Tan}[e + f*x]/ff)^{(n*\text{FracPart}[p])}) \text{Int}[\text{ActivateTrig}[u]*(\text{Tan}[e + f*x]/ff)^{(n*p)}, x], x]] / ; \text{FreeQ}[\{b, e, f, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{IntegerQ}[n] \&\& (\text{EqQ}[u, 1] \text{ || } \text{MatchQ}[u, ((d_.)*(trig_)[e + f*x])^{(m_.)}]) / ; \text{FreeQ}[\{d, m\}, x] \&\& \text{MemberQ}[\{\sin, \cos, \tan, \cot, \sec, \csc\}, trig]]$
4142.  $\text{Int}[(u_.)*((b_.)*((c_.)\tan[(e_.) + (f_.)(x_.)]^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[b^{\text{IntPart}[p]}*((b*(c*\text{Tan}[e + f*x])^n)^{\text{FracPart}[p]} / (c*\text{Tan}[e + f*x]^{(n*\text{FracPart}[p])}) \text{Int}[\text{ActivateTrig}[u]*(c*\text{Tan}[e + f*x])^{(n*p)}, x], x] / ; \text{FreeQ}[\{b, c, e, f, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{!IntegerQ}[n] \&\& (\text{EqQ}[u, 1] \text{ || } \text{MatchQ}[u, ((d_.)*(trig_)[e + f*x])^{(m_.)}]) / ; \text{FreeQ}[\{d, m\}, x] \&\& \text{MemberQ}[\{\sin, \cos, \tan, \cot, \sec, \csc\}, trig]]$
4143.  $\text{Int}[(a_.) + (b_.)\tan[(e_.) + (f_.)(x_.)]^2)^{(-1)}, x\_Symbol] \rightarrow \text{Simp}[x / (a - b), x] - \text{Simp}[b / (a - b) \text{ Int}[\text{Sec}[e + f*x]^2 / (a + b*\text{Tan}[e + f*x]^2), x], x] / ; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a, b]$

4144.  $\text{Int}[(a + (b \cdot (c \cdot \tan[e + f \cdot x])^n)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Tan}[e + f \cdot x], x]\}, \text{Simp}[c \cdot (\text{ff}/f) \text{ Subst}[\text{Int}[(a + b \cdot (\text{ff} \cdot x)^n]^p / (c^2 + \text{ff}^2 \cdot x^2), x], x, c \cdot (\text{Tan}[e + f \cdot x] / \text{ff})], x] \text{ /; FreeQ}[\{a, b, c, e, f, n, p\}, x] \&\& (\text{IntegersQ}[n, p] \mid \text{IGtQ}[p, 0] \mid \mid \text{EqQ}[n^2, 4] \mid \mid \text{EqQ}[n^2, 16])]$
4145.  $\text{Int}[(a + (b \cdot (c \cdot \tan[e + f \cdot x])^n)^p), x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(a + b \cdot (c \cdot \text{Tan}[e + f \cdot x])^n)^p, x] \text{ /; FreeQ}[\{a, b, c, e, f, n, p\}, x]$
4146.  $\text{Int}[\sin[e + (f \cdot x)]^m \cdot (a + (b \cdot (c \cdot \tan[e + f \cdot x])^n)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Tan}[e + f \cdot x], x]\}, \text{Simp}[c \cdot (\text{ff}^{m+1}/f) \text{ Subst}[\text{Int}[x^m \cdot (a + b \cdot (\text{ff} \cdot x)^n]^p / (c^2 + \text{ff}^2 \cdot x^2)^{(m/2+1)}, x], x, c \cdot (\text{Tan}[e + f \cdot x] / \text{ff})], x] \text{ /; FreeQ}[\{a, b, c, e, f, n, p\}, x] \&\& \text{IntegerQ}[m/2]$
4147.  $\text{Int}[\sin[e + (f \cdot x)]^m \cdot (a + (b \cdot \tan[e + (f \cdot x)]^2)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Sec}[e + f \cdot x], x]\}, \text{Simp}[1/(f \cdot \text{ff}^m) \text{ Subst}[\text{Int}[(-1 + \text{ff}^2 \cdot x^2)^{(m-1)/2} \cdot (a - b + b \cdot \text{ff}^2 \cdot x^2)^p / x^{m+1}, x], x, \text{Sec}[e + f \cdot x] / \text{ff}], x] \text{ /; FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[(m-1)/2]$
4148.  $\text{Int}[\sin[e + (f \cdot x)]^m \cdot (a + (b \cdot \tan[e + (f \cdot x)]^2)^n)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Sec}[e + f \cdot x], x]\}, \text{Simp}[1/(f \cdot \text{ff}^m) \text{ Subst}[\text{Int}[(-1 + \text{ff}^2 \cdot x^2)^{(m-1)/2} \cdot (a + b \cdot (-1 + \text{ff}^2 \cdot x^2)^{n/2})^p / x^{m+1}, x], x, \text{Sec}[e + f \cdot x] / \text{ff}], x] \text{ /; FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[(m-1)/2] \&\& \text{IntegerQ}[n/2]$
4149.  $\text{Int}[(d \cdot \sin[e + (f \cdot x)]^m \cdot (a + (b \cdot (c \cdot \tan[e + (f \cdot x)]^n)^p), x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrig}[(d \cdot \sin[e + f \cdot x])^m \cdot (a + b \cdot (c \cdot \tan[e + f \cdot x])^n)^p, x], x] \text{ /; FreeQ}[\{a, b, c, d, e, f, m, n\}, x] \&\& \text{IGtQ}[p, 0]$
4150.  $\text{Int}[(d \cdot \sin[e + (f \cdot x)]^m \cdot (a + (b \cdot \tan[e + (f \cdot x)]^2)^p), x_{\text{Symbol}}] \rightarrow \text{With}[\{\text{ff} = \text{FreeFactors}[\text{Tan}[e + f \cdot x], x]$

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}, Simp[ff*(d*SIN[e + f*x])^m*((Sec[e + f*x]^2)^(m/2)/(f*Tan[e + f*x]^
m)) Subst[Int[(ff*x)^m*((a + b*ff^2*x^2)^p/(1 + ff^2*x^2)^(m/2 + 1))
, x], x, Tan[e + f*x]/ff], x]] /; FreeQ[{a, b, d, e, f, m, p}, x] &&
!IntegerQ[m]

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4151. $\text{Int}[(d \cdot \sin(e + f \cdot x) + (f \cdot x))^m \cdot ((a + b \cdot (c \cdot \tan(e + f \cdot x) + (f \cdot x))^n))^p, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d \cdot \sin[e + f \cdot x])^m \cdot (a + b \cdot (c \cdot \tan[e + f \cdot x])^n)^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x]$
4152. $\text{Int}[(\cos(e + f \cdot x) + (f \cdot x) \cdot d)^m \cdot ((a + b \cdot (c \cdot \tan(e + f \cdot x) + (f \cdot x))^n))^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot \cos[e + f \cdot x])^{\text{FracPart}[m]} \cdot (\sec[e + f \cdot x]/d)^{\text{FracPart}[m]} \text{Int}[(a + b \cdot (c \cdot \tan[e + f \cdot x])^n)^p / (\sec[e + f \cdot x]/d)^m, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& !\text{IntegerQ}[m]$
4153. $\text{Int}[(d \cdot \tan(e + f \cdot x) + (f \cdot x))^m \cdot ((a + b \cdot (c \cdot \tan(e + f \cdot x) + (f \cdot x))^n))^p, x_{\text{Symbol}}] \rightarrow \text{With}\{ff = \text{FreeFactors}[\tan[e + f \cdot x], x]\}, \text{Simp}[c \cdot (ff/f) \text{Subst}[\text{Int}[(d \cdot ff \cdot (x/c))^m \cdot ((a + b \cdot (ff \cdot x)^n)^p / (c^2 + ff^2 \cdot x^2)), x], x, c \cdot (\tan[e + f \cdot x]/ff)], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& (\text{IGtQ}[p, 0] \parallel \text{EqQ}[n, 2] \parallel \text{EqQ}[n, 4] \parallel (\text{IntegerQ}[p] \&\& \text{RationalQ}[n]))$
4154. $\text{Int}[(d \cdot \tan(e + f \cdot x) + (f \cdot x))^m \cdot ((a + b \cdot (c \cdot \tan(e + f \cdot x) + (f \cdot x))^n))^p, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrig}[(d \cdot \tan[e + f \cdot x])^m \cdot (a + b \cdot (c \cdot \tan[e + f \cdot x])^n)^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \&\& \text{IGtQ}[p, 0]$
4155. $\text{Int}[(d \cdot \tan(e + f \cdot x) + (f \cdot x))^m \cdot ((a + b \cdot (c \cdot \tan(e + f \cdot x) + (f \cdot x))^n))^p, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d \cdot \tan[e + f \cdot x])^m \cdot (a + b \cdot (c \cdot \tan[e + f \cdot x])^n)^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x]$
4156. $\text{Int}[(\cot(e + f \cdot x) + (f \cdot x) \cdot d)^m \cdot ((a + b \cdot \tan(e + f \cdot x) + (f \cdot x))^n))^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[d^{(n \cdot p)} \text{Int}[(d \cdot \cot[e + f \cdot x])^{(m - n \cdot p)} \cdot (b + a \cdot \cot[e + f \cdot x])^n)^p, x], x] /; \text{FreeQ}\{a, b, d, e, f,$

- $m, n, p\}$, x] && !IntegerQ[m] && IntegersQ[n, p]
4157. $\text{Int}[(\cot[(e_{.}) + (f_{.})*(x_{.})]*(d_{.}))^{(m_{.})}*((a_{.}) + (b_{.})*((c_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})})^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(d*\text{Cot}[e + f*x])^{\text{FracPart}[m]}*(\text{Tan}[e + f*x]/d)^{\text{FracPart}[m]} \text{Int}[(a + b*(c*\text{Tan}[e + f*x])^n]^p / (\text{Tan}[e + f*x]/d)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p\}, x] \&\& !\text{IntegerQ}[m]$
4158. $\text{Int}[\sec[(e_{.}) + (f_{.})*(x_{.})]^{(m_{.})}*((a_{.}) + (b_{.})*((c_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})})^{(p_{.})}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff/(c^{(m-1)}*f) \text{Subst}[\text{Int}[(c^2 + ff^2*x^2)^{(m/2-1)}*(a + b*(ff*x)^n]^p, x], x, c*(\text{Tan}[e + f*x]/ff)], x] /; \text{FreeQ}[\{a, b, c, e, f, n, p\}, x] \&\& \text{IntegerQ}[m/2] \&\& (\text{IntegersQ}[n, p] \parallel \text{IGtQ}[m, 0] \parallel \text{IGtQ}[p, 0] \parallel \text{EqQ}[n^2, 4] \parallel \text{EqQ}[n^2, 16])$
4159. $\text{Int}[\sec[(e_{.}) + (f_{.})*(x_{.})]^{(m_{.})}*((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})})^{(p_{.})}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Sin}[e + f*x], x]\}, \text{Simp}[ff/f \text{Subst}[\text{Int}[\text{ExpandToSum}[b*(ff*x)^n + a*(1 - ff^2*x^2)^{(n/2)}], x]^p / (1 - ff^2*x^2)^{((m + n*p + 1)/2)}, x], x, \text{Sin}[e + f*x]/ff], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegerQ}[(m-1)/2] \&\& \text{IntegerQ}[n/2] \&\& \text{IntegerQ}[p]$
4160. $\text{Int}[\sec[(e_{.}) + (f_{.})*(x_{.})]^{(m_{.})}*((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})})^{(p_{.})}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Sin}[e + f*x], x]\}, \text{Simp}[ff/f \text{Subst}[\text{Int}[(1/(1 - ff^2*x^2)^{(m+1)/2})]*((b*(ff*x)^n + a*(1 - ff^2*x^2)^{(n/2)})/(1 - ff^2*x^2)^{(n/2)})^p, x], x, \text{Sin}[e + f*x]/ff], x] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[(m-1)/2] \&\& \text{IntegerQ}[n/2] \&\& !\text{IntegerQ}[p]$
4161. $\text{Int}[(d_{.})*\sec[(e_{.}) + (f_{.})*(x_{.})]^{(m_{.})}*((a_{.}) + (b_{.})*((c_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})])^{(n_{.})})^{(p_{.})}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(d*\sec[e + f*x])^m*(a + b*(c*\tan[e + f*x])^n]^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x] \&\& \text{IGtQ}[p, 0]$
4162. $\text{Int}[(d_{.})*\sec[(e_{.}) + (f_{.})*(x_{.})]^{(m_{.})}*((a_{.}) + (b_{.})*\tan[(e_{.}) + (f_{.})*(x_{.})]^2)^{(p_{.})}, x_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff*((d*\text{Sec}[e + f*x])^m/(f*(\text{Sec}[e + f*x]^2)^{(m/2}))) \text{Subst}[\text{Int}$

- $$[(1 + ff^2*x^2)^{(m/2 - 1)}*(a + b*ff^2*x^2)^p, x], x, \text{Tan}[e + f*x]/ff],$$

$$x]] /; \text{FreeQ}\{a, b, d, e, f, m, p\}, x\} \&\& \text{!IntegerQ}[m]$$
4163.
$$\text{Int}[(d_*)\text{sec}[(e_*) + (f_*)(x_)]^{(m_*)}((a_*) + (b_*)((c_*)\text{tan}[(e_*) + (f_*)(x_)]^{(n_*)})^{(p_*)}), x_Symbol] :> \text{Unintegrable}[(d*\text{Sec}[e + f*x])^m*(a + b*(c*\text{Tan}[e + f*x])^n)^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x]$$
4164.
$$\text{Int}[(\text{csc}[(e_*) + (f_*)(x_)]*(d_*)^{(m_*)}((a_*) + (b_*)((c_*)\text{tan}[(e_*) + (f_*)(x_)]^{(n_*)})^{(p_*)}), x_Symbol] :> \text{Simp}[(d*\text{Csc}[e + f*x])^{\text{FracPart}[m]}*(\text{Sin}[e + f*x]/d)^{\text{FracPart}[m]} \text{Int}[(a + b*(c*\text{Tan}[e + f*x])^n)^p / (\text{Sin}[e + f*x]/d)^m, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x\} \&\& \text{!IntegerQ}[m]$$
4165.
$$\text{Int}[(a_*) + (b_*)\text{tan}[(d_*) + (e_*)(x_)]^{(n_*)} + (c_*)\text{tan}[(d_*) + (e_*)(x_)]^{(n2_*)})^{(p_*)}, x_Symbol] :> \text{Simp}[1/(4^p*c^p) \text{Int}[(b + 2*c*\text{Tan}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[n^2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$$
4166.
$$\text{Int}[(\text{cot}[(d_*) + (e_*)(x_)]^{(n_*)}*(b_*) + \text{cot}[(d_*) + (e_*)(x_)]^{(n2_*)}*(c_*) + (a_*)^{(p_*)}), x_Symbol] :> \text{Simp}[1/(4^p*c^p) \text{Int}[(b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[n^2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$$
4167.
$$\text{Int}[(a_*) + (b_*)\text{tan}[(d_*) + (e_*)(x_)]^{(n_*)} + (c_*)\text{tan}[(d_*) + (e_*)(x_)]^{(n2_*)})^{(p_*)}, x_Symbol] :> \text{Simp}[(a + b*\text{Tan}[d + e*x]^n + c*\text{Tan}[d + e*x]^{(2*n)})^p / (b + 2*c*\text{Tan}[d + e*x]^n)^{(2*p)} \text{Int}[(b + 2*c*\text{Tan}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[n^2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{!IntegerQ}[p]$$
4168.
$$\text{Int}[(\text{cot}[(d_*) + (e_*)(x_)]^{(n_*)}*(b_*) + \text{cot}[(d_*) + (e_*)(x_)]^{(n2_*)}*(c_*) + (a_*)^{(p_*)}), x_Symbol] :> \text{Simp}[(a + b*\text{Cot}[d + e*x]^n + c*\text{Cot}[d + e*x]^{(2*n)})^p / (b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)} \text{Int}[(b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[n^2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{!IntegerQ}[p]$$

4169. $\text{Int}[\left((a_{.}) + (b_{.})\tan[(d_{.}) + (e_{.})(x_{.})]^{(n_{.})} + (c_{.})\tan[(d_{.}) + (e_{.})(x_{.})]^{(n2_{.})}\right)^{-1}, x_{\text{Symbol}}] \rightarrow \text{Module}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*(c/q) \text{Int}[1/(b - q + 2*c*\text{Tan}[d + e*x]^n), x], x] - \text{Simp}[2*(c/q) \text{Int}[1/(b + q + 2*c*\text{Tan}[d + e*x]^n), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
4170. $\text{Int}[\left((a_{.}) + \cot[(d_{.}) + (e_{.})(x_{.})]^{(n_{.})}\right)*(b_{.}) + \cot[(d_{.}) + (e_{.})(x_{.})]^{(n2_{.})}\right)^{-1}, x_{\text{Symbol}}] \rightarrow \text{Module}[\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[2*(c/q) \text{Int}[1/(b - q + 2*c*\text{Cot}[d + e*x]^n), x], x] - \text{Simp}[2*(c/q) \text{Int}[1/(b + q + 2*c*\text{Cot}[d + e*x]^n), x], x]] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
4171. $\text{Int}[\sin[(d_{.}) + (e_{.})(x_{.})]^{(m_{.})}\left((a_{.}) + (b_{.})\left((f_{.})\tan[(d_{.}) + (e_{.})(x_{.})]^{(n_{.})} + (c_{.})\left((f_{.})\tan[(d_{.}) + (e_{.})(x_{.})]^{(n2_{.})}\right)^{(p_{.})}\right)\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[f/e \text{Subst}[\text{Int}[x^m*((a + b*x^n + c*x^{(2*n)})^p/(f^2 + x^2)^{(m/2 + 1))}, x], x, f*\text{Tan}[d + e*x]], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IntegerQ}[m/2]$
4172. $\text{Int}[\cos[(d_{.}) + (e_{.})(x_{.})]^{(m_{.})}\left((a_{.}) + (b_{.})\left(\cot[(d_{.}) + (e_{.})(x_{.})]^{(n_{.})}\right)*(f_{.})\right)^{(n_{.})} + (c_{.})\left(\cot[(d_{.}) + (e_{.})(x_{.})]^{(n2_{.})}\right)^{(p_{.})}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[-f/e \text{Subst}[\text{Int}[x^m*((a + b*x^n + c*x^{(2*n)})^p/(f^2 + x^2)^{(m/2 + 1))}, x], x, f*\text{Cot}[d + e*x]], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IntegerQ}[m/2]$
4173. $\text{Int}[\sin[(d_{.}) + (e_{.})(x_{.})]^{(m_{.})}\left((a_{.}) + (b_{.})\tan[(d_{.}) + (e_{.})(x_{.})]^{(n_{.})} + (c_{.})\tan[(d_{.}) + (e_{.})(x_{.})]^{(n2_{.})}\right)^{(p_{.})}, x_{\text{Symbol}}] \rightarrow \text{Module}[\{g = \text{FreeFactors}[\text{Cos}[d + e*x], x]\}, \text{Simp}[-g/e \text{Subst}[\text{Int}[(1 - g^2*x^2)^{(m-1)/2}*(\text{ExpandToSum}[a*(g*x)^{(2*n)} + b*(g*x)^n*(1 - g^2*x^2)^{(n/2)} + c*(1 - g^2*x^2)^n, x]^p/(g*x)^{(2*n*p)}), x], x, \text{Cos}[d + e*x]/g], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IntegerQ}[(m-1)/2] \&\& \text{IntegerQ}[n/2] \&\& \text{IntegerQ}[p]$
4174. $\text{Int}[\cos[(d_{.}) + (e_{.})(x_{.})]^{(m_{.})}\left((a_{.}) + \cot[(d_{.}) + (e_{.})(x_{.})]^{(n_{.})}\right)*(b_{.}) + (c_{.})\tan[(d_{.}) + (e_{.})(x_{.})]^{(n2_{.})}\right)^{(p_{.})}, x_{\text{Symbol}}] \rightarrow \text{Module}[\{g = \text{FreeFactors}[\text{Sin}[d + e*x], x]\}, \text{Simp}[g/e \text{Subst}[\text{Int}[(1 - g^2*x^2)^{(m-1)/2}*(\text{ExpandToSum}[a*(g*x)^{(2*n)} + b*(g*x)^n*(1 - g^2*x^2)^{(n/2)} + c*(1 - g^2*x^2)^n, x]^p/(g*x)^{(2*n*p)}), x], x, \text{Sin}[d + e*x]/$

- g], x]] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[(m - 1)/2] && IntegerQ[n/2] && IntegerQ[p]
4175. Int[cos[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + (b_.)*((f_.)*tan[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*((f_.)*tan[(d_.) + (e_.)*(x_)]^(n2_.))^(p_.), x_Symbol] := Simp[f^(m + 1)/e Subst[Int[(a + b*x^n + c*x^(2*n))^p/(f^2 + x^2)^(m/2 + 1), x], x, f*Tan[d + e*x]], x] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && EqQ[n2, 2*n] && IntegerQ[m/2]
4176. Int[((a_.) + (b_.)*(cot[(d_.) + (e_.)*(x_)]*(f_.))^(n_.) + (c_.)*(cot[(d_.) + (e_.)*(x_)]*(f_.))^(n2_.))^(p_.)*sin[(d_.) + (e_.)*(x_)]^(m_), x_Symbol] := Simp[-f^(m + 1)/e Subst[Int[(a + b*x^n + c*x^(2*n))^p/(f^2 + x^2)^(m/2 + 1), x], x, f*Cot[d + e*x]], x] /; FreeQ[{a, b, c, d, e, f, n, p}, x] && EqQ[n2, 2*n] && IntegerQ[m/2]
4177. Int[cos[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + (b_.)*tan[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*tan[(d_.) + (e_.)*(x_)]^(n2_.))^(p_.), x_Symbol] := Module[{g = FreeFactors[Sin[d + e*x], x]}, Simp[g/e Subst[Int[(1 - g^2*x^2)^((m - 2*n*p - 1)/2)*ExpandToSum[c*x^(2*n) + b*x^n*(1 - x^2)^(n/2) + a*(1 - x^2)^n, x]^p, x], x, Sin[d + e*x]/g], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[(m - 1)/2] && IntegerQ[n/2] && IntegerQ[p]
4178. Int[((a_.) + cot[(d_.) + (e_.)*(x_)]^(n_.)*(b_.) + cot[(d_.) + (e_.)*(x_)]^(n2_.)*(c_.))^(p_.)*sin[(d_.) + (e_.)*(x_)]^(m_), x_Symbol] := Module[{g = FreeFactors[Cos[d + e*x], x]}, Simp[-g/e Subst[Int[(1 - g^2*x^2)^((m - 2*n*p - 1)/2)*ExpandToSum[c*x^(2*n) + b*x^n*(1 - x^2)^(n/2) + a*(1 - x^2)^n, x]^p, x], x, Cos[d + e*x]/g], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[(m - 1)/2] && IntegerQ[n/2] && IntegerQ[p]
4179. Int[tan[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + (b_.)*tan[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*tan[(d_.) + (e_.)*(x_)]^(n2_.))^(p_), x_Symbol] := Simp[1/(4^p*c^p) Int[Tan[d + e*x]^m*(b + 2*c*Tan[d + e*x]^n)^(2*p), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && EqQ[n2, 2*n] && EqQ[b^2 - 4*a*c, 0] && IntegerQ[p]

4180. $\text{Int}[\cot[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + \cot[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cot[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p c^p) \text{Int}[\text{Cot}[d + e*x]^{m*(b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
4181. $\text{Int}[\tan[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)*\tan[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)*\tan[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*\text{Tan}[d + e*x]^n + c*\text{Tan}[d + e*x]^{(2*n)})^p / (b + 2*c*\text{Tan}[d + e*x]^n)^{(2*p)} \text{Int}[\text{Tan}[d + e*x]^{m*(b + 2*c*\text{Tan}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
4182. $\text{Int}[\cot[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + \cot[(d_.) + (e_.)(x_.)]^{(n_.)}(b_.) + \cot[(d_.) + (e_.)(x_.)]^{(n2_.)}(c_.))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*\text{Cot}[d + e*x]^n + c*\text{Cot}[d + e*x]^{(2*n)})^p / (b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)} \text{Int}[\text{Cot}[d + e*x]^{m*(b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
4183. $\text{Int}[\tan[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)*((f_.)*\tan[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)*((f_.)*\tan[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[f/e \text{Subst}[\text{Int}[(x/f)^m*((a + b*x^n + c*x^{(2*n)})^p / (f^2 + x^2)), x], x, f*\text{Tan}[d + e*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
4184. $\text{Int}[\cot[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)*(\cot[(d_.) + (e_.)(x_.)]*(f_.))^{(n_.)} + (c_.)*(\cot[(d_.) + (e_.)(x_.)]*(f_.))^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[-f/e \text{Subst}[\text{Int}[(x/f)^m*((a + b*x^n + c*x^{(2*n)})^p / (f^2 + x^2)), x], x, f*\text{Cot}[d + e*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0]$
4185. $\text{Int}[\cot[(d_.) + (e_.)(x_.)]^{(m_.)}((a_.) + (b_.)*\tan[(d_.) + (e_.)(x_.)]^{(n_.)} + (c_.)*\tan[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p c^p) \text{Int}[\text{Cot}[d + e*x]^{m*(b + 2*c*\text{Tan}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$

4186. $\text{Int}[(a_.) + \cot[(d_.) + (e_.)*(x_)]^{(n_.)}*(b_.) + \cot[(d_.) + (e_.)*(x_)]^{(n2_.)}*(c_.)]^{(p_.)}*\tan[(d_.) + (e_.)*(x_)]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p*c^p) \text{Int}[\text{Tan}[d + e*x]^{m*(b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p]$
4187. $\text{Int}[\cot[(d_.) + (e_.)*(x_)]^{(m_.)}*((a_.) + (b_.)*\tan[(d_.) + (e_.)*(x_)]^{(n_.)} + (c_.)*\tan[(d_.) + (e_.)*(x_)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*\text{Tan}[d + e*x]^n + c*\text{Tan}[d + e*x]^{(2*n)})^p/(b + 2*c*\text{Tan}[d + e*x]^n)^{(2*p)} \text{Int}[\text{Cot}[d + e*x]^{m*(b + 2*c*\text{Tan}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
4188. $\text{Int}[(a_.) + \cot[(d_.) + (e_.)*(x_)]^{(n_.)}*(b_.) + \cot[(d_.) + (e_.)*(x_)]^{(n2_.)}*(c_.)]^{(p_.)}*\tan[(d_.) + (e_.)*(x_)]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*\text{Cot}[d + e*x]^n + c*\text{Cot}[d + e*x]^{(2*n)})^p/(b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)} \text{Int}[\text{Tan}[d + e*x]^{m*(b + 2*c*\text{Cot}[d + e*x]^n)^{(2*p)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[p]$
4189. $\text{Int}[\cot[(d_.) + (e_.)*(x_)]^{(m_.)}*((a_.) + (b_.)*\tan[(d_.) + (e_.)*(x_)]^{(n_.)} + (c_.)*\tan[(d_.) + (e_.)*(x_)]^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Module}\{g = \text{FreeFactors}[\text{Cot}[d + e*x], x]\}, \text{Simp}[g/e \text{Subst}[\text{Int}[(g*x)^{(m - 2*n*p)}*((c + b*(g*x)^n + a*(g*x)^{(2*n)})^p/(1 + g^2*x^2)), x], x, \text{Cot}[d + e*x]/g], x] /; \text{FreeQ}\{a, b, c, d, e, m, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[n/2]$
4190. $\text{Int}[(a_.) + \cot[(d_.) + (e_.)*(x_)]^{(n_.)}*(b_.) + \cot[(d_.) + (e_.)*(x_)]^{(n2_.)}*(c_.)]^{(p_.)}*\tan[(d_.) + (e_.)*(x_)]^{(m_.)}, x_Symbol] \rightarrow \text{Module}\{g = \text{FreeFactors}[\text{Tan}[d + e*x], x]\}, \text{Simp}[-g/e \text{Subst}[\text{Int}[(g*x)^{(m - 2*n*p)}*((c + b*(g*x)^n + a*(g*x)^{(2*n)})^p/(1 + g^2*x^2)), x], x, \text{Tan}[d + e*x]/g], x] /; \text{FreeQ}\{a, b, c, d, e, m, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[n/2]$
4191. $\text{Int}[(A_.) + (B_.)*\tan[(d_.) + (e_.)*(x_)]*((a_.) + (b_.)*\tan[(d_.) + (e_.)*(x_)] + (c_.)*\tan[(d_.) + (e_.)*(x_)]^2)^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Int}[(A_.) + (B_.)*\tan[(d_.) + (e_.)*(x_)]*((a_.) + (b_.)*\tan[(d_.) + (e_.)*(x_)] + (c_.)*\tan[(d_.) + (e_.)*(x_)]^2)^{(n_.)}, x_)] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[n/2]$

- $1/(4^n c^n) \int [(A + B \tan[d + ex]) (b + 2c \tan[d + ex])^{2n}, x]$ /; FreeQ[{a, b, c, d, e, A, B}, x] && EqQ[b^2 - 4ac, 0] && IntegerQ[n]
4192. $\int [(\cot[d] + e(x)) (b) + \cot[d] + e(x)]^{2n} (c) + (a)^n (\cot[d] + e(x)) (B) + (A)]$, x_Symbol] :> Simp[
 $1/(4^n c^n) \int [(A + B \cot[d + ex]) (b + 2c \cot[d + ex])^{2n}, x]$ /; FreeQ[{a, b, c, d, e, A, B}, x] && EqQ[b^2 - 4ac, 0] && IntegerQ[n]
4193. $\int [((A) + (B) \tan[d] + e(x)) ((a) + (b) \tan[d] + e(x)) + (c) \tan[d] + e(x)]^{2n}$, x_Symbol] :> Simp[
 $(a + b \tan[d + ex] + c \tan[d + ex]^2)^n / (b + 2c \tan[d + ex])^{2n}$
 $\int [(A + B \tan[d + ex]) (b + 2c \tan[d + ex])^{2n}, x]$ /; FreeQ[{a, b, c, d, e, A, B}, x] && EqQ[b^2 - 4ac, 0] && !IntegerQ[n]
4194. $\int [(\cot[d] + e(x)) (b) + \cot[d] + e(x)]^{2n} (c) + (a)^n (\cot[d] + e(x)) (B) + (A)]$, x_Symbol] :> Simp[
 $(a + b \cot[d + ex] + c \cot[d + ex]^2)^n / (b + 2c \cot[d + ex])^{2n}$
 $\int [(A + B \cot[d + ex]) (b + 2c \cot[d + ex])^{2n}, x]$ /; FreeQ[{a, b, c, d, e, A, B}, x] && EqQ[b^2 - 4ac, 0] && !IntegerQ[n]
4195. $\int [((A) + (B) \tan[d] + e(x)) / ((a) + (b) \tan[d] + e(x)) + (c) \tan[d] + e(x)]^{2n}$, x_Symbol] :> Module[{q = Rt[b^2 - 4ac, 2]}, Simp[(B + (bB - 2Ac)/q) Int[1/Simp[b + q + 2cTan[d + ex], x], x], x] + Simp[(B - (bB - 2Ac)/q) Int[1/Simp[b - q + 2cTan[d + ex], x], x], x]] /; FreeQ[{a, b, c, d, e, A, B}, x] && NeQ[b^2 - 4ac, 0]
4196. $\int [(\cot[d] + e(x)) (B) + (A)) / ((a) + \cot[d] + e(x)) (x) (b) + \cot[d] + e(x)]^{2n} (c)$, x_Symbol] :> Module[{q = Rt[b^2 - 4ac, 2]}, Simp[(B + (bB - 2Ac)/q) Int[1/Simp[b + q + 2cCot[d + ex], x], x], x] + Simp[(B - (bB - 2Ac)/q) Int[1/Simp[b - q + 2cCot[d + ex], x], x], x]] /; FreeQ[{a, b, c, d, e, A, B}, x] && NeQ[b^2 - 4ac, 0]

4197. $\text{Int}[\left((A_{\cdot}) + (B_{\cdot})\tan[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]\right)\left((a_{\cdot}) + (b_{\cdot})\tan[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})] + (c_{\cdot})\tan[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]^2\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrig}[(A + B\tan[d + e*x])*(a + b\tan[d + e*x] + c\tan[d + e*x]^2)^n, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B\}, x\} \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IntegerQ}[n]$
4198. $\text{Int}[\left((a_{\cdot}) + \cot[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]\right)\left((b_{\cdot}) + \cot[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})]\right)^2 * (c_{\cdot})^{(n_{\cdot})} * \left(\cot[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})] * (B_{\cdot}) + (A_{\cdot})\right), x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrig}[(A + B*\cot[d + e*x])*(a + b*\cot[d + e*x] + c*\cot[d + e*x]^2)^n, x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, A, B\}, x\} \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0] \ \&\& \ \text{IntegerQ}[n]$
4199. $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} * \tan[(e_{\cdot}) + \text{Pi} * (k_{\cdot}) + (\text{Complex}[0, fz_{\cdot}]) * (f_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[(-I) * ((c + d*x)^{(m + 1)} / (d * (m + 1))), x] + \text{Simp}[2*I \ \text{Int}[\left((c + d*x)^m * (E^{2*((-I)*e + f*fz*x)}) / (1 + E^{2*((-I)*e + f*fz*x)}) / E^{2*I*k*Pi}\right)], x], x] /;$ $\text{FreeQ}\{c, d, e, f, fz\}, x\} \ \&\& \ \text{IntegerQ}[4*k] \ \&\& \ \text{IGtQ}[m, 0]$
4200. $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} * \tan[(e_{\cdot}) + \text{Pi} * (k_{\cdot}) + (f_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[I * ((c + d*x)^{(m + 1)} / (d * (m + 1))), x] - \text{Simp}[2*I \ \text{Int}[\left((c + d*x)^m * E^{2*I*k*Pi} * (E^{2*I*(e + f*x)}) / (1 + E^{2*I*k*Pi}) * E^{2*I*(e + f*x)}\right)], x], x] /;$ $\text{FreeQ}\{c, d, e, f\}, x\} \ \&\& \ \text{IntegerQ}[4*k] \ \&\& \ \text{IGtQ}[m, 0]$
4201. $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} * \tan[(e_{\cdot}) + (\text{Complex}[0, fz_{\cdot}]) * (f_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[(-I) * ((c + d*x)^{(m + 1)} / (d * (m + 1))), x] + \text{Simp}[2*I \ \text{Int}[\left((c + d*x)^m * (E^{2*((-I)*e + f*fz*x)}) / (1 + E^{2*((-I)*e + f*fz*x)})\right)], x], x] /;$ $\text{FreeQ}\{c, d, e, f, fz\}, x\} \ \&\& \ \text{IGtQ}[m, 0]$
4202. $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} * \tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})], x_{\text{Symbol}}] \rightarrow \text{Simp}[I * ((c + d*x)^{(m + 1)} / (d * (m + 1))), x] - \text{Simp}[2*I \ \text{Int}[\left((c + d*x)^m * (E^{2*I*(e + f*x)}) / (1 + E^{2*I*(e + f*x)})\right)], x], x] /;$ $\text{FreeQ}\{c, d, e, f\}, x\} \ \&\& \ \text{IGtQ}[m, 0]$
4203. $\text{Int}[\left((c_{\cdot}) + (d_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} * \left((b_{\cdot})\tan[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)^{(n_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b * (c + d*x)^m * ((b*\text{Tan}[e + f*x])^{(n - 1)} / (f * (n - 1))), x] + (-\text{Simp}[b*d*(m/(f*(n - 1))) \ \text{Int}[\left((c + d*x)^{(m - 1)} * (b*\text{Tan}[e + f$

- $x]^{(n-1)}, x], x] - \text{Simp}[b^2 \text{ Int}[(c + d*x)^m*(b*\text{Tan}[e + f*x])^{(n-2)}, x], x] /; \text{FreeQ}[\{b, c, d, e, f\}, x] \ \&\& \ \text{GtQ}[n, 1] \ \&\& \ \text{GtQ}[m, 0]$
4204. $\text{Int}[(c + d*x)^m*((b*\text{Tan}[e + f*x])^{(n)}, x_Symbol] :> \text{Simp}[(c + d*x)^m*((b*\text{Tan}[e + f*x])^{(n+1)}/(b*f*(n+1))), x] + (-\text{Simp}[d*(m/(b*f*(n+1))) \text{ Int}[(c + d*x)^{(m-1)}*(b*\text{Tan}[e + f*x])^{(n+1)}, x], x] - \text{Simp}[1/b^2 \text{ Int}[(c + d*x)^m*(b*\text{Tan}[e + f*x])^{(n+2)}, x], x]) /; \text{FreeQ}[\{b, c, d, e, f\}, x] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{GtQ}[m, 0]$
4205. $\text{Int}[(c + d*x)^m*((a + b*\text{Tan}[e + f*x])^{(n)}, x_Symbol] :> \text{Int}[\text{ExpandIntegrand}[(c + d*x)^m, (a + b*\text{Tan}[e + f*x])^n], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{IGtQ}[n, 0]$
4206. $\text{Int}[(c + d*x)^m/((a + b*\text{Tan}[e + f*x])), x_Symbol] :> \text{Simp}[(c + d*x)^{(m+1)}/(2*a*d*(m+1)), x] + (\text{Simp}[a*d*(m/(2*b*f)) \text{ Int}[(c + d*x)^{(m-1)}/(a + b*\text{Tan}[e + f*x]), x], x] - \text{Simp}[a*((c + d*x)^m/(2*b*f*(a + b*\text{Tan}[e + f*x])), x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{GtQ}[m, 0]$
4207. $\text{Int}[1/((c + d*x)^2*((a + b*\text{Tan}[e + f*x])), x_Symbol] :> -\text{Simp}[(d*(c + d*x)*(a + b*\text{Tan}[e + f*x]))^{(-1)}, x] + (-\text{Simp}[f/(a*d) \text{ Int}[\text{Sin}[2*e + 2*f*x]/(c + d*x), x], x] + \text{Simp}[f/(b*d) \text{ Int}[\text{Cos}[2*e + 2*f*x]/(c + d*x), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0]$
4208. $\text{Int}[(c + d*x)^m/((a + b*\text{Tan}[e + f*x]), x_Symbol] :> \text{Simp}[f*((c + d*x)^{(m+2)}/(b*d^2*(m+1)*(m+2))), x] + (\text{Simp}[2*b*(f/(a*d*(m+1))) \text{ Int}[(c + d*x)^{(m+1)}/(a + b*\text{Tan}[e + f*x]), x], x] + \text{Simp}[(c + d*x)^{(m+1)}/(d*(m+1)*(a + b*\text{Tan}[e + f*x])), x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 + b^2, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{NeQ}[m, -2]$
4209. $\text{Int}[1/((c + d*x)*((a + b*\text{Tan}[e + f*x])), x_Symbol] :> \text{Simp}[\text{Log}[c + d*x]/(2*a*d), x] + (\text{Simp}[1/(2*a) \text{ Int}[\text{Cos}[2*e + 2*f*x]/(c + d*x), x], x] + \text{Simp}[1/(2*b) \text{ Int}[\text{Sin}[2*e + 2*f*x]/(c$

- + d*x), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[a^2 + b^2, 0]
4210. Int[((c_.) + (d_.)*(x_))^(m_)/((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]), x_Symbol] := Simp[(c + d*x)^(m + 1)/(2*a*d*(m + 1)), x] + Simp[1/(2*a) Int[(c + d*x)^m*E^(2*(a/b)*(e + f*x)), x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[a^2 + b^2, 0] && !IntegerQ[m]
4211. Int[((c_.) + (d_.)*(x_))^(m_)*((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]^(n_), x_Symbol] := Int[ExpandIntegrand[(c + d*x)^m, (1/(2*a) + Cos[2*e + 2*f*x]/(2*a) + Sin[2*e + 2*f*x]/(2*b))^(n), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[a^2 + b^2, 0] && ILtQ[m, 0] && ILtQ[n, 0]
4212. Int[((c_.) + (d_.)*(x_))^(m_)*((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]^(n_), x_Symbol] := Int[ExpandIntegrand[(c + d*x)^m, (1/(2*a) + E^(2*(a/b)*(e + f*x))/(2*a))^(n), x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[a^2 + b^2, 0] && ILtQ[n, 0]
4213. Int[((c_.) + (d_.)*(x_))^(m_.)*((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]^(n_), x_Symbol] := With[{u = IntHide[(a + b*Tan[e + f*x])^n, x]}, Simp[(c + d*x)^m u, x] - Simp[d*m Int[(c + d*x)^(m - 1) u, x], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[a^2 + b^2, 0] && ILtQ[n, -1] && GtQ[m, 0]
4214. Int[((c_.) + (d_.)*(x_))^(m_.)/((a_.) + (b_.)*tan[(e_.) + Pi*(k_.) + (f_.)*(x_)]), x_Symbol] := Simp[(c + d*x)^(m + 1)/(d*(m + 1)*(a + I*b)), x] + Simp[2*I*b Int[(c + d*x)^m*E^(2*I*k*Pi)*(E^Simp[2*I*(e + f*x), x])/((a + I*b)^2 + (a^2 + b^2)*E^(2*I*k*Pi)*E^Simp[2*I*(e + f*x), x])], x] /; FreeQ[{a, b, c, d, e, f}, x] && IntegerQ[4*k] && NeQ[a^2 + b^2, 0] && IGtQ[m, 0]
4215. Int[((c_.) + (d_.)*(x_))^(m_.)/((a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]), x_Symbol] := Simp[(c + d*x)^(m + 1)/(d*(m + 1)*(a + I*b)), x] + Simp[2*I*b Int[(c + d*x)^m*(E^Simp[2*I*(e + f*x), x])/((a + I*b)^2 + (a^2 + b^2)*E^Simp[2*I*(e + f*x), x])], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[a^2 + b^2, 0] && IGtQ[m, 0]

4216. `Int[((c_.) + (d_.)*(x_))/((a_) + (b_.)*tan[(e_.) + (f_.)*(x_)])^2, x_Symbol] := Simp[-(c + d*x)^2/(2*d*(a^2 + b^2)), x] + (Simp[1/(f*(a^2 + b^2)) Int[(b*d + 2*a*c*f + 2*a*d*f*x)/(a + b*Tan[e + f*x]), x], x] - Simp[b*((c + d*x)/(f*(a^2 + b^2)*(a + b*Tan[e + f*x]))), x]) /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[a^2 + b^2, 0]`
4217. `Int[((c_.) + (d_.)*(x_))^(m_.)*((a_) + (b_.)*tan[(e_.) + (f_.)*(x_)])^(n_), x_Symbol] := Int[ExpandIntegrand[(c + d*x)^m, (1/(a - I*b) - 2*I*(b/(a^2 + b^2 + (a - I*b)^2*E^(2*I*(e + f*x))))^(-n)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[a^2 + b^2, 0] && ILtQ[n, 0] && IGtQ[m, 0]`
4218. `Int[((c_.) + (d_.)*(x_))*Sqrt[(a_) + (b_.)*tan[(e_.) + (f_.)*(x_)]], x_Symbol] := Simp[(-Sqrt[2])*b*(c + d*x)*(ArcTanh[Sqrt[a + b*Tan[e + f*x]]/(Sqrt[2]*Rt[a, 2])]/(Rt[a, 2]*f)), x] + Simp[Sqrt[2]*b*(d/(Rt[a, 2]*f)) Int[ArcTanh[Sqrt[a + b*Tan[e + f*x]]/(Sqrt[2]*Rt[a, 2])], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[a^2 + b^2, 0]`
4219. `Int[((c_.) + (d_.)*(x_))*Sqrt[(a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]], x_Symbol] := Simp[(-I)*Rt[a - I*b, 2]*((c + d*x)/f)*ArcTanh[Sqrt[a + b*Tan[e + f*x]]/Rt[a - I*b, 2]], x] + (Simp[I*Rt[a + I*b, 2]*((c + d*x)/f)*ArcTanh[Sqrt[a + b*Tan[e + f*x]]/Rt[a + I*b, 2]], x] + Simp[I*d*(Rt[a - I*b, 2]/f) Int[ArcTanh[Sqrt[a + b*Tan[e + f*x]]/Rt[a - I*b, 2]], x], x] - Simp[I*d*(Rt[a + I*b, 2]/f) Int[ArcTanh[Sqrt[a + b*Tan[e + f*x]]/Rt[a + I*b, 2]], x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[a^2 + b^2, 0]`
4220. `Int[((c_.) + (d_.)*(x_))/Sqrt[(a_) + (b_.)*tan[(e_.) + (f_.)*(x_)]], x_Symbol] := Simp[1/(2*a) Int[(c + d*x)*Sqrt[a + b*Tan[e + f*x]], x], x] + Simp[a/2 Int[(c + d*x)*(Sec[e + f*x]^2/(a + b*Tan[e + f*x])^(3/2)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[a^2 + b^2, 0]`
4221. `Int[((c_.) + (d_.)*(x_))/Sqrt[(a_.) + (b_.)*tan[(e_.) + (f_.)*(x_)]], x_Symbol] := Simp[(-I)*((c + d*x)/(f*Rt[a - I*b, 2]))*ArcTanh[Sqrt[a + b*Tan[e + f*x]]/Rt[a - I*b, 2]], x] + (Simp[I*((c + d*x)/(f*Rt[a + I*b, 2]))*ArcTanh[Sqrt[a + b*Tan[e + f*x]]/Rt[a + I*b, 2]], x] + Simp[I*(d/(f*Rt[a - I*b, 2])) Int[ArcTanh[Sqrt[a + b*Tan[e + f*x]]/Rt[a - I`

- $$\text{Simp}[I*(d/(f*\text{Rt}[a + I*b, 2])) \text{Int}[\text{ArcTanh}[\text{Sqrt}[a + b*\text{Tan}[e + f*x]]/\text{Rt}[a + I*b, 2]], x], x) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[a^2 + b^2, 0]$$
4222. $\text{Int}[(c + d*x)^m * \tan(e + f*x)^n, x_Symbol] \rightarrow \text{Simp}[\text{If}[\text{MatchQ}[f, (f1_)*(Complex[0, j_])], \text{If}[\text{MatchQ}[e, (e1_)+ Pi/2], I^n * \text{Unintegrable}[(c + d*x)^m * \text{Coth}[(-I)*(e - Pi/2) - I*f*x]^n, x], I^n * \text{Unintegrable}[(c + d*x)^m * \text{Tanh}[(-I)*e - I*f*x]^n, x]], \text{If}[\text{MatchQ}[e, (e1_)+ Pi/2], (-1)^n * \text{Unintegrable}[(c + d*x)^m * \text{Cot}[e - Pi/2 + f*x]^n, x], \text{Unintegrable}[(c + d*x)^m * \text{Tan}[e + f*x]^n, x]], x] /; \text{FreeQ}[\{c, d, e, f, m, n\}, x] \ \&\& \ \text{IntegerQ}[n]$
4223. $\text{Int}[(c + d*x)^m * ((a + b*\tan(e + f*x))^n), x_Symbol] \rightarrow \text{Unintegrable}[(c + d*x)^m * (a + b*\text{Tan}[e + f*x])^n, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x]$
4224. $\text{Int}[u^m * (a + b*\text{Tan}[v])^n, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m * (a + b*\text{Tan}[\text{ExpandToSum}[v, x]])^n, x] /; \text{FreeQ}[\{a, b, m, n\}, x] \ \&\& \ \text{LinearQ}[\{u, v\}, x] \ \&\& \ !\text{LinearMatchQ}[\{u, v\}, x]$
4225. $\text{Int}[(a + \text{Cot}[v]*(b))^n * u^m, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m * (a + b*\text{Cot}[\text{ExpandToSum}[v, x]])^n, x] /; \text{FreeQ}[\{a, b, m, n\}, x] \ \&\& \ \text{LinearQ}[\{u, v\}, x] \ \&\& \ !\text{LinearMatchQ}[\{u, v\}, x]$
4226. $\text{Int}[(a + b*\text{Tan}[c + d*x]^n])^p, x_Symbol] \rightarrow \text{Simp}[1/n \ \text{Subst}[\text{Int}[x^{(1/n - 1)} * (a + b*\text{Tan}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \ \&\& \ \text{IGtQ}[1/n, 0] \ \&\& \ \text{IntegerQ}[p]$
4227. $\text{Int}[(a + \text{Cot}[c + d*x]^n * b)^p, x_Symbol] \rightarrow \text{Simp}[1/n \ \text{Subst}[\text{Int}[x^{(1/n - 1)} * (a + b*\text{Cot}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \ \&\& \ \text{IGtQ}[1/n, 0] \ \&\& \ \text{IntegerQ}[p]$
4228. $\text{Int}[(a + b*\text{Tan}[c + d*x]^n])^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b*\text{Tan}[c + d*x]^n)^p, x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x]$

4229. `Int[((a_.) + Cot[(c_.) + (d_.)*(x_)^(n_)])*(b_.))^(p_.), x_Symbol] := S
nintegrable[(a + b*Cot[c + d*x^n])^p, x] /; FreeQ[{a, b, c, d, n, p},
x]`
4230. `Int[((a_.) + (b_.)*Tan[(c_.) + (d_.)*(u_)^(n_)])^(p_.), x_Symbol] := S
imp[1/Coefficient[u, x, 1] Subst[Int[(a + b*Tan[c + d*x^n])^p, x], x
, u], x] /; FreeQ[{a, b, c, d, n, p}, x] && LinearQ[u, x] && NeQ[u, x]`
4231. `Int[((a_.) + Cot[(c_.) + (d_.)*(u_)^(n_)])*(b_.))^(p_.), x_Symbol] := S
imp[1/Coefficient[u, x, 1] Subst[Int[(a + b*Cot[c + d*x^n])^p, x], x
, u], x] /; FreeQ[{a, b, c, d, n, p}, x] && LinearQ[u, x] && NeQ[u, x]`
4232. `Int[((a_.) + (b_.)*Tan[u_])^(p_.), x_Symbol] := Int[(a + b*Tan[ExpandT
oSum[u, x]])^p, x] /; FreeQ[{a, b, p}, x] && BinomialQ[u, x] && !Bino
mialMatchQ[u, x]`
4233. `Int[((a_.) + Cot[u_]*(b_.))^(p_.), x_Symbol] := Int[(a + b*Cot[ExpandT
oSum[u, x]])^p, x] /; FreeQ[{a, b, p}, x] && BinomialQ[u, x] && !Bino
mialMatchQ[u, x]`
4234. `Int[(x_)^(m_.)*((a_.) + (b_.)*Tan[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x_S
ymbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*Tan[
c + d*x])^p, x], x, x^n], x] /; FreeQ[{a, b, c, d, m, n, p}, x] && IGt
Q[Simplify[(m + 1)/n], 0] && IntegerQ[p]`
4235. `Int[((a_.) + Cot[(c_.) + (d_.)*(x_)^(n_)])*(b_.))^(p_.)*(x_)^(m_.), x_S
ymbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*Cot[
c + d*x])^p, x], x, x^n], x] /; FreeQ[{a, b, c, d, m, n, p}, x] && IGt
Q[Simplify[(m + 1)/n], 0] && IntegerQ[p]`
4236. `Int[(x_)^(m_.)*Tan[(c_.) + (d_.)*(x_)^(n_)]^2, x_Symbol] := Simp[x^(m
- n + 1)*(Tan[c + d*x^n]/(d*n)), x] + (-Int[x^m, x] - Simp[(m - n + 1)
/(d*n) Int[x^(m - n)*Tan[c + d*x^n], x], x]) /; FreeQ[{c, d, m, n},
x]`

4237. $\text{Int}[\text{Cot}[(c_.) + (d_.)(x_)^{(n_.)}]^{2*}(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-x^{(m - n + 1)}) * (\text{Cot}[c + d*x^n]/(d*n)), x] + (-\text{Int}[x^m, x] + \text{Simp}[(m - n + 1)/(d*n) \text{Int}[x^{(m - n)} * \text{Cot}[c + d*x^n], x], x]) /; \text{FreeQ}[\{c, d, m, n\}, x]$
4238. $\text{Int}[(x_)^{(m_.)} * ((a_.) + (b_.) * \text{Tan}[(c_.) + (d_.)(x_)^{(n_.)}])^{(p_.)}, x_Symbol] \rightarrow \text{Unintegrable}[x^m * (a + b * \text{Tan}[c + d*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x]$
4239. $\text{Int}[((a_.) + \text{Cot}[(c_.) + (d_.)(x_)^{(n_.)}] * (b_.))^{(p_.)} * (x_)^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[x^m * (a + b * \text{Cot}[c + d*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x]$
4240. $\text{Int}(((e_)(x_))^{(m_.)} * ((a_.) + (b_.) * \text{Tan}[(c_.) + (d_.)(x_)^{(n_.)}])^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]} * ((e*x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m * (a + b * \text{Tan}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
4241. $\text{Int}(((a_.) + \text{Cot}[(c_.) + (d_.)(x_)^{(n_.)}] * (b_.))^{(p_.)} * ((e_)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]} * ((e*x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m * (a + b * \text{Cot}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
4242. $\text{Int}(((e_)(x_))^{(m_.)} * ((a_.) + (b_.) * \text{Tan}[u_])^{(p_.)}, x_Symbol] \rightarrow \text{Int}[(e*x)^m * (a + b * \text{Tan}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, e, m, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
4243. $\text{Int}(((a_.) + \text{Cot}[u_] * (b_.))^{(p_.)} * ((e_)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(e*x)^m * (a + b * \text{Cot}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, e, m, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
4244. $\text{Int}[(x_)^{(m_.)} * \text{Sec}[(a_.) + (b_.)(x_)^{(n_.)}]^{(p_.)} * \text{Tan}[(a_.) + (b_.)(x_)^{(n_.)}]^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m - n + 1)} * (\text{Sec}[a + b*x^n]^p / (b * n * p)), x] - \text{Simp}[(m - n + 1) / (b * n * p) \text{Int}[x^{(m - n)} * \text{Sec}[a + b*x^n]^p, x], x] /; \text{FreeQ}[\{a, b, p\}, x] \&\& \text{IntegerQ}[n] \&\& \text{GeQ}[m, n] \&\& \text{EqQ}[q, 1]$

4245. $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_)^{(n_.)}]^{(q_.)} \text{Csc}[(a_.) + (b_.)(x_)^{(n_.)}]^{(p_.)} (x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-x^{(m-n+1)}) \text{Csc}[a + b x^n]^p / (b^n p), x] + \text{Simp}[(m-n+1)/(b^n p) \text{Int}[x^{(m-n)} \text{Csc}[a + b x^n]^p], x] /; \text{FreeQ}\{a, b, p, x\} \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{GeQ}[m, n] \ \&\& \ \text{EqQ}[q, 1]$
4246. $\text{Int}[\text{Tan}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrateable}[\text{Tan}[a + b x + c x^2]^n, x] /; \text{FreeQ}\{a, b, c, n\}, x]$
4247. $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrateable}[\text{Cot}[a + b x + c x^2]^n, x] /; \text{FreeQ}\{a, b, c, n\}, x]$
4248. $\text{Int}[((d_.) + (e_.)(x_)) \text{Tan}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[(-e) \text{Log}[\text{Cos}[a + b x + c x^2]] / (2c), x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[2c d - b e, 0]$
4249. $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_) + (c_.)(x_)^2] * ((d_.) + (e_.)(x_)), x_Symbol] \rightarrow \text{Simp}[e \text{Log}[\text{Sin}[a + b x + c x^2]] / (2c), x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[2c d - b e, 0]$
4250. $\text{Int}[((d_.) + (e_.)(x_)) \text{Tan}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[(-e) \text{Log}[\text{Cos}[a + b x + c x^2]] / (2c), x] + \text{Simp}[(2c d - b e) / (2c) \text{Int}[\text{Tan}[a + b x + c x^2], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[2c d - b e, 0]$
4251. $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_) + (c_.)(x_)^2] * ((d_.) + (e_.)(x_)), x_Symbol] \rightarrow \text{Simp}[e \text{Log}[\text{Sin}[a + b x + c x^2]] / (2c), x] + \text{Simp}[(2c d - b e) / (2c) \text{Int}[\text{Cot}[a + b x + c x^2], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[2c d - b e, 0]$
4252. $\text{Int}[((d_.) + (e_.)(x_))^{(m_.)} \text{Tan}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrateable}[(d + e x)^m \text{Tan}[a + b x + c x^2]^n, x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x]$

4253. $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_.)}((d_.) + (e_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(d + e*x)^m * \text{Cot}[a + b*x + c*x^2]^n, x] /;$ $\text{FreeQ}\{a, b, c, d, e, m, n\}, x]$
4254. $\text{Int}[\text{csc}[(c_.) + (d_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[\text{ExpandIntegrand}[(1 + x^2)^{(n/2 - 1)}, x], x], x, \text{Cot}[c + d*x]], x] /;$ $\text{FreeQ}\{c, d\}, x] \&\& \text{IGtQ}[n/2, 0]$
4255. $\text{Int}[(\text{csc}[(c_.) + (d_.)(x_)]*(b_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(-b)*\text{Cos}[c + d*x]*(b*\text{Csc}[c + d*x])^{(n - 1)}/(d*(n - 1))), x] + \text{Simp}[b^2*((n - 2)/(n - 1)) \text{Int}[(b*\text{Csc}[c + d*x])^{(n - 2)}, x], x] /;$ $\text{FreeQ}\{b, c, d\}, x] \&\& \text{GtQ}[n, 1] \&\& \text{IntegerQ}[2*n]$
4256. $\text{Int}[(\text{csc}[(c_.) + (d_.)(x_)]*(b_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Cos}[c + d*x]*(b*\text{Csc}[c + d*x])^{(n + 1)}/(b*d^n), x] + \text{Simp}[(n + 1)/(b^2*n) \text{Int}[(b*\text{Csc}[c + d*x])^{(n + 2)}, x], x] /;$ $\text{FreeQ}\{b, c, d\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{IntegerQ}[2*n]$
4257. $\text{Int}[\text{csc}[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[-\text{ArcTanh}[\text{Cos}[c + d*x]]/d, x] /;$ $\text{FreeQ}\{c, d\}, x]$
4258. $\text{Int}[(\text{csc}[(c_.) + (d_.)(x_)]*(b_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(b*\text{Csc}[c + d*x])^n * \text{Sin}[c + d*x]^n \text{Int}[1/\text{Sin}[c + d*x]^n, x], x] /;$ $\text{FreeQ}\{b, c, d\}, x] \&\& \text{EqQ}[n^2, 1/4]$
4259. $\text{Int}[(\text{csc}[(c_.) + (d_.)(x_)]*(b_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(b*\text{Csc}[c + d*x])^{(n - 1)}*((\text{Sin}[c + d*x]/b)^{(n - 1)} \text{Int}[1/(\text{Sin}[c + d*x]/b)^n, x]), x] /;$ $\text{FreeQ}\{b, c, d, n\}, x] \&\& !\text{IntegerQ}[n]$
4260. $\text{Int}[(\text{csc}[(c_.) + (d_.)(x_)]*(b_.) + (a_.))^{2}, x_Symbol] \rightarrow \text{Simp}[a^2*x, x] + (\text{Simp}[2*a*b \text{Int}[\text{Csc}[c + d*x], x], x] + \text{Simp}[b^2 \text{Int}[\text{Csc}[c + d*x]^2, x], x]) /;$ $\text{FreeQ}\{a, b, c, d\}, x]$
4261. $\text{Int}[\text{Sqrt}[\text{csc}[(c_.) + (d_.)(x_)]*(b_.) + (a_.)], x_Symbol] \rightarrow \text{Simp}[-2*(b/d) \text{Subst}[\text{Int}[1/(a + x^2), x], x, b*(\text{Cot}[c + d*x]/\text{Sqrt}[a + b*\text{Csc}[c$

- + d*x]]], x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0]
4262. Int[(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] := Simp[(-b^2)*Cot[c + d*x]*((a + b*Csc[c + d*x])^(n - 2)/(d*(n - 1))), x] + Simp[a/(n - 1) Int[(a + b*Csc[c + d*x])^(n - 2)*(a*(n - 1) + b*(3*n - 4)*Csc[c + d*x]), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0] && GtQ[n, 1] && IntegerQ[2*n]
4263. Int[1/Sqrt[csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_)], x_Symbol] := Simp[1/a Int[Sqrt[a + b*Csc[c + d*x]], x], x] - Simp[b/a Int[Csc[c + d*x]/Sqrt[a + b*Csc[c + d*x]], x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0]
4264. Int[(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] := Simp[(-Cot[c + d*x]*((a + b*Csc[c + d*x])^n/(d*(2*n + 1))), x] + Simp[1/(a^2*(2*n + 1)) Int[(a + b*Csc[c + d*x])^(n + 1)*(a*(2*n + 1) - b*(n + 1)*Csc[c + d*x]), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0] && LeQ[n, -1] && IntegerQ[2*n]
4265. Int[(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] := Simp[a^n*(Cot[c + d*x]/(d*Sqrt[1 + Csc[c + d*x]]*Sqrt[1 - Csc[c + d*x]])) Subst[Int[(1 + b*(x/a))^(n - 1/2)/(x*Sqrt[1 - b*(x/a)]), x], x, Csc[c + d*x]], x] /; FreeQ[{a, b, c, d, n}, x] && EqQ[a^2 - b^2, 0] && !IntegerQ[2*n] && GtQ[a, 0]
4266. Int[(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] := Simp[a^IntPart[n]*((a + b*Csc[c + d*x])^FracPart[n]/(1 + (b/a)*Csc[c + d*x])^FracPart[n]) Int[(1 + (b/a)*Csc[c + d*x])^n, x], x] /; FreeQ[{a, b, c, d, n}, x] && EqQ[a^2 - b^2, 0] && !IntegerQ[2*n] && !GtQ[a, 0]
4267. Int[Sqrt[csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_)], x_Symbol] := Simp[2*((a + b*Csc[c + d*x])/(d*Rt[a + b, 2]*Cot[c + d*x]))*Sqrt[b*((1 + Csc[c + d*x])/(a + b*Csc[c + d*x]))]*Sqrt[(-b)*((1 - Csc[c + d*x])/(a + b*Csc[c + d*x]))]*EllipticPi[a/(a + b), ArcSin[Rt[a + b, 2]/Sqrt[a + b*Csc[c + d*x]]], (a - b)/(a + b)], x] /; FreeQ[{a, b, c, d}, x] && NeQ[a^2 - b^2, 0]

4268. $\text{Int}[(\text{csc}[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^{\frac{3}{2}}, x_Symbol] \rightarrow \text{Int}[(a^2 + b*(2*a - b)*\text{Csc}[c + d*x])/ \text{Sqrt}[a + b*\text{Csc}[c + d*x]], x] + \text{Simp}[b^2 \text{Int}[\text{Csc}[c + d*x]*((1 + \text{Csc}[c + d*x])/ \text{Sqrt}[a + b*\text{Csc}[c + d*x]])], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4269. $\text{Int}[(\text{csc}[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^n, x_Symbol] \rightarrow \text{Simp}[(-b^2)*\text{Cot}[c + d*x]*((a + b*\text{Csc}[c + d*x])^{n-2}/(d*(n-1))), x] + \text{Simp}[1/(n-1) \text{Int}[(a + b*\text{Csc}[c + d*x])^{n-3}*\text{Simp}[a^{3*(n-1)} + (b*(b^2*(n-2) + 3*a^2*(n-1)))*\text{Csc}[c + d*x] + (a*b^2*(3*n-4))*\text{Csc}[c + d*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[2*n]$
4270. $\text{Int}[(\text{csc}[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^{-1}, x_Symbol] \rightarrow \text{Simp}[x/a, x] - \text{Simp}[1/a \text{Int}[1/(1 + (a/b)*\text{Sin}[c + d*x]), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4271. $\text{Int}[1/\text{Sqrt}[\text{csc}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[2*(\text{Rt}[a + b, 2]/(a*d*\text{Cot}[c + d*x]))*\text{Sqrt}[b*((1 - \text{Csc}[c + d*x])/(a + b))]*\text{Sqrt}[(-b)*((1 + \text{Csc}[c + d*x])/(a - b))]*\text{EllipticPi}[(a + b)/a, \text{ArcSin}[\text{Sqrt}[a + b*\text{Csc}[c + d*x]]/\text{Rt}[a + b, 2]], (a + b)/(a - b)], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4272. $\text{Int}[(\text{csc}[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^n, x_Symbol] \rightarrow \text{Simp}[b^2*\text{Cot}[c + d*x]*((a + b*\text{Csc}[c + d*x])^{n+1}/(a*d*(n+1)*(a^2 - b^2))), x] + \text{Simp}[1/(a*(n+1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Csc}[c + d*x])^{n+1}*\text{Simp}[(a^2 - b^2)*(n+1) - a*b*(n+1)*\text{Csc}[c + d*x] + b^2*(n+2)*\text{Csc}[c + d*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[n, -1] \&\& \text{IntegerQ}[2*n]$
4273. $\text{Int}[(\text{csc}[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^n, x_Symbol] \rightarrow \text{Unintegrable}[(a + b*\text{Csc}[c + d*x])^n, x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{!IntegerQ}[2*n]$
4274. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)^n*(\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[a \text{Int}[(d*\text{Csc}[e + f*x])^n, x], x] + \text{Simp}[b/d \text{Int}[(d*\text{Csc}[e + f*x])^{n+1}, x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x]$

$n\}, x]$

4275. $\text{Int}[(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(d_{_}))^{(n_{_})}*(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_}))^2, x_Symbol] \rightarrow \text{Simp}[2*a*(b/d) \text{Int}[(d*\text{Csc}[e + f*x])^{(n + 1)}, x], x] + \text{Int}[(d*\text{Csc}[e + f*x])^n*(a^2 + b^2*\text{Csc}[e + f*x]^2), x] /;$
 $\text{FreeQ}[\{a, b, d, e, f, n\}, x]$

4276. $\text{Int}[\text{csc}[(e_{_}) + (f_{_})*(x_{_})]^2/(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_})), x_Symbol] \rightarrow \text{Simp}[1/b \text{Int}[\text{Csc}[e + f*x], x], x] - \text{Simp}[a/b \text{Int}[\text{Csc}[e + f*x]/(a + b*\text{Csc}[e + f*x]), x], x] /;$
 $\text{FreeQ}[\{a, b, e, f\}, x]$

4277. $\text{Int}[\text{csc}[(e_{_}) + (f_{_})*(x_{_})]^3/(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_})), x_Symbol] \rightarrow \text{Simp}[-\text{Cot}[e + f*x]/(b*f), x] - \text{Simp}[a/b \text{Int}[\text{Csc}[e + f*x]^2/(a + b*\text{Csc}[e + f*x]), x], x] /;$
 $\text{FreeQ}[\{a, b, e, f\}, x]$

4278. $\text{Int}[(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(d_{_}))^{(n_{_})}*(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_}))^{(m_{_})}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(a + b*\text{csc}[e + f*x])^m*(d*\text{csc}[e + f*x])^n, x], x] /;$
 $\text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{RationalQ}[n]$

4279. $\text{Int}[\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*\text{Sqrt}[\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_})], x_Symbol] \rightarrow \text{Simp}[-2*b*(\text{Cot}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] /;$
 $\text{FreeQ}[\{a, b, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$

4280. $\text{Int}[\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_}))^{(m_{_})}, x_Symbol] \rightarrow \text{Simp}[(-b)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m - 1)}/(f*m)), x] + \text{Simp}[a*((2*m - 1)/m) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 1)}, x], x] /;$
 $\text{FreeQ}[\{a, b, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[m, 1/2] \ \&\& \ \text{IntegerQ}[2*m]$

4281. $\text{Int}[\text{csc}[(e_{_}) + (f_{_})*(x_{_})]/(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_})), x_Symbol] \rightarrow \text{Simp}[-\text{Cot}[e + f*x]/(f*(b + a*\text{Csc}[e + f*x])), x] /;$
 $\text{FreeQ}[\{a, b, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$

4282. $\text{Int}[\text{csc}[(e_{_}) + (f_{_})*(x_{_})]/\text{Sqrt}[\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_})], x_Symbol] \rightarrow \text{Simp}[-2/f \text{Subst}[\text{Int}[1/(2*a + x^2), x], x, b*(\text{Cot}[e +$

- $f*x]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]]], x] /; \text{FreeQ}\{a, b, e, f\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0]$
4283. $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] :> \text{Simp}[b*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(a*f*(2*m + 1))), x] + \text{Simp}[(m + 1)/(a*(2*m + 1)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}\{a, b, e, f\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}] \&\& \text{IntegerQ}[2*m]$
4284. $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]^2*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] :> \text{Simp}[(-\text{Cot}[e + f*x])*((a + b*\text{Csc}[e + f*x])^m/(f*(2*m + 1))), x] + \text{Simp}[m/(b*(2*m + 1)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}\{a, b, e, f\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$
4285. $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]^2*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] :> \text{Simp}[(-\text{Cot}[e + f*x])*((a + b*\text{Csc}[e + f*x])^m/(f*(m + 1))), x] + \text{Simp}[a*(m/(b*(m + 1))) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^m, x], x] /; \text{FreeQ}\{a, b, e, f, m\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& ! \text{LtQ}[m, -2^{(-1)}]$
4286. $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]^3*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] :> \text{Simp}[b*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(a*f*(2*m + 1))), x] - \text{Simp}[1/(a^2*(2*m + 1)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(a*m - b*(2*m + 1)*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, e, f\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$
4287. $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]^3*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] :> \text{Simp}[(-\text{Cot}[e + f*x])*((a + b*\text{Csc}[e + f*x])^{(m + 1)}/(b*f*(m + 2))), x] + \text{Simp}[1/(b*(m + 2)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^m*(b*(m + 1) - a*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, e, f, m\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}]$
4288. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)], x_Symbol] :> \text{Simp}[-2*(a/(b*f))*\text{Sqrt}[a*(d/b)] \text{Subst}[\text{Int}[1/\text{Sqrt}[1 + x^2/a], x], x, b*(\text{Cot}[e + f*x]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]])], x] /; \text{FreeQ}\{a, b, d, e, f\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{GtQ}[a*(d/b),$

0]

4289. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(d_)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[-2*b*(d/f) \text{ Subst}[\text{Int}[1/(b - d*x^2), x], x, b*(\text{Cot}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[d*\text{Csc}[e + f*x]])]], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{GtQ}[a*(d/b), 0]$
4290. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_))^n*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[-2*b*d*\text{Cot}[e + f*x]*((d*\text{Csc}[e + f*x])^{n-1}/(f*(2*n-1)*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] + \text{Simp}[2*a*d*((n-1)/(b*(2*n-1))) \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(d*\text{Csc}[e + f*x])^{n-1}, x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{GtQ}[n, 1] \&\& \text{IntegerQ}[2*n]$
4291. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(d_)], x_Symbol] \rightarrow \text{Simp}[-2*a*(\text{Cot}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[d*\text{Csc}[e + f*x]])), x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0]$
4292. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_))^n*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[a*\text{Cot}[e + f*x]*((d*\text{Csc}[e + f*x])^n/(f*n*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] + \text{Simp}[a*((2*n+1)/(2*b*d*n)) \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(d*\text{Csc}[e + f*x])^{n+1}, x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[n, -2^{(-1)}] \&\& \text{IntegerQ}[2*n]$
4293. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_))^n*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[a^2*d*(\text{Cot}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[a - b*\text{Csc}[e + f*x]])) \text{ Subst}[\text{Int}[(d*x)^{n-1}/\text{Sqrt}[a - b*x], x], x, \text{Csc}[e + f*x]], x] /; \text{FreeQ}[\{a, b, d, e, f, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0]$
4294. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(d_)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[(-\text{Sqrt}[2])*(\text{Sqrt}[a]/(b*f)) \text{ Subst}[\text{Int}[1/\text{Sqrt}[1 + x^2], x], x, b*(\text{Cot}[e + f*x]/(a + b*\text{Csc}[e + f*x]))], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[d - a/b, 0] \&\&$

GtQ[a, 0]

4295. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(d_.)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)], x_Symbol] \rightarrow \text{Simp}[-2*b*(d/(a*f)) \text{ Subst}[\text{Int}[1/(2*b - d*x^2), x], x, b*(\text{Cot}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[d*\text{Csc}[e + f*x]])]], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0]$
4296. $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(d_.))^{(n_)}*(\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(-a)*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m-1)}*((d*\text{Csc}[e + f*x])^n/(f*m)), x] + \text{Simp}[b*((2*m - 1)/(d*m)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m-1)}*(d*\text{Csc}[e + f*x])^{(n+1)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n, 0] \&\& \text{GtQ}[m, 1/2] \&\& \text{IntegerQ}[2*m]$
4297. $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(d_.))^{(n_)}*(\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[b*d*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m-1)}*((d*\text{Csc}[e + f*x])^{(n-1)}/(a*f*(2*m + 1))), x] + \text{Simp}[d*((m + 1)/(b*(2*m + 1))) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m+1)}*(d*\text{Csc}[e + f*x])^{(n-1)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n, 0] \&\& \text{LtQ}[m, -2^{(-1)}] \&\& \text{IntegerQ}[2*m]$
4298. $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(d_.))^{(n_)}*(\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(-\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m-1)}*((d*\text{Csc}[e + f*x])^n/(f*(2*m + 1))), x] + \text{Simp}[m/(a*(2*m + 1)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m+1)}*(d*\text{Csc}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n + 1, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$
4299. $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(d_.))^{(n_)}*(\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(-\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m-1)}*((d*\text{Csc}[e + f*x])^n/(f*(m + 1))), x] + \text{Simp}[a*(m/(b*d*(m + 1))) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m+1)}*(d*\text{Csc}[e + f*x])^{(n+1)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n + 1, 0] \&\& \text{!LtQ}[m, -2^{(-1)}]$
4300. $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(d_.))^{(n_)}*(\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[b^2*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m-1)}*((d*\text{Csc}[e + f*x])^n/(f*(2*m + 1))), x] + \text{Simp}[d*((m + 1)/(b*(2*m + 1))) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m+1)}*(d*\text{Csc}[e + f*x])^{(n-1)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n + 1, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$

- $$\int (a + b \operatorname{Csc}[e + f x])^{m-2} (d \operatorname{Csc}[e + f x])^n / (f^n), x - \operatorname{Simp}[a / (d^n) \operatorname{Int}[(a + b \operatorname{Csc}[e + f x])^{m-2} (d \operatorname{Csc}[e + f x])^{n+1} (b(m-2n-2) - a(m+2n-1) \operatorname{Csc}[e + f x]), x], x] /; \operatorname{FreeQ}[\{a, b, d, e, f\}, x] \&\& \operatorname{EqQ}[a^2 - b^2, 0] \&\& \operatorname{GtQ}[m, 1] \&\& (\operatorname{LtQ}[n, -1] \mid\mid (\operatorname{EqQ}[m, 3/2] \&\& \operatorname{EqQ}[n, -2] (-1)))] \&\& \operatorname{IntegerQ}[2m]$$
4301. $\operatorname{Int}[(\operatorname{csc}[e] + (f)(x))(d)^n (\operatorname{csc}[e] + (f)(x))(b + a)^m, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[(-b^2) \operatorname{Cot}[e + f x] (a + b \operatorname{Csc}[e + f x])^{m-2} ((d \operatorname{Csc}[e + f x])^n / (f(m+n-1))), x] + \operatorname{Simp}[b / (m+n-1) \operatorname{Int}[(a + b \operatorname{Csc}[e + f x])^{m-2} (d \operatorname{Csc}[e + f x])^n (b(m+2n-1) + a(3m+2n-4) \operatorname{Csc}[e + f x]), x], x] /; \operatorname{FreeQ}[\{a, b, d, e, f, n\}, x] \&\& \operatorname{EqQ}[a^2 - b^2, 0] \&\& \operatorname{GtQ}[m, 1] \&\& \operatorname{NeQ}[m+n-1, 0] \&\& \operatorname{IntegerQ}[2m]$
4302. $\operatorname{Int}[(\operatorname{csc}[e] + (f)(x))(d)^n (\operatorname{csc}[e] + (f)(x))(b + a)^m, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[b d \operatorname{Cot}[e + f x] (a + b \operatorname{Csc}[e + f x])^m ((d \operatorname{Csc}[e + f x])^{n-1} / (a f (2m+1))), x] - \operatorname{Simp}[d / (a b (2m+1)) \operatorname{Int}[(a + b \operatorname{Csc}[e + f x])^{m+1} (d \operatorname{Csc}[e + f x])^{n-1} (a(n-1) - b(m+n) \operatorname{Csc}[e + f x]), x], x] /; \operatorname{FreeQ}[\{a, b, d, e, f\}, x] \&\& \operatorname{EqQ}[a^2 - b^2, 0] \&\& \operatorname{LtQ}[m, -1] \&\& \operatorname{LtQ}[1, n, 2] \&\& (\operatorname{IntegersQ}[2m, 2n] \mid\mid \operatorname{IntegerQ}[m])$
4303. $\operatorname{Int}[(\operatorname{csc}[e] + (f)(x))(d)^n (\operatorname{csc}[e] + (f)(x))(b + a)^m, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[(-d^2) \operatorname{Cot}[e + f x] (a + b \operatorname{Csc}[e + f x])^m ((d \operatorname{Csc}[e + f x])^{n-2} / (f(2m+1))), x] + \operatorname{Simp}[d^2 / (a b (2m+1)) \operatorname{Int}[(a + b \operatorname{Csc}[e + f x])^{m+1} (d \operatorname{Csc}[e + f x])^{n-2} (b(n-2) + a(m-n+2) \operatorname{Csc}[e + f x]), x], x] /; \operatorname{FreeQ}[\{a, b, d, e, f\}, x] \&\& \operatorname{EqQ}[a^2 - b^2, 0] \&\& \operatorname{LtQ}[m, -1] \&\& \operatorname{GtQ}[n, 2] \&\& (\operatorname{IntegersQ}[2m, 2n] \mid\mid \operatorname{IntegerQ}[m])$
4304. $\operatorname{Int}[(\operatorname{csc}[e] + (f)(x))(d)^n (\operatorname{csc}[e] + (f)(x))(b + a)^m, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[(-\operatorname{Cot}[e + f x]) (a + b \operatorname{Csc}[e + f x])^m ((d \operatorname{Csc}[e + f x])^n / (f(2m+1))), x] + \operatorname{Simp}[1 / (a^2 (2m+1)) \operatorname{Int}[(a + b \operatorname{Csc}[e + f x])^{m+1} (d \operatorname{Csc}[e + f x])^n (a(2m+n+1) - b(m+n+1) \operatorname{Csc}[e + f x]), x], x] /; \operatorname{FreeQ}[\{a, b, d, e, f, n\}, x] \&\& \operatorname{EqQ}[a^2 - b^2, 0] \&\& \operatorname{LtQ}[m, -1] \&\& (\operatorname{IntegersQ}[2m, 2n] \mid\mid \operatorname{IntegerQ}[m])$

4305. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (d_.)^n) / (\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[d^2 \cdot \text{Cot}[e + f \cdot x] \cdot ((d \cdot \text{Csc}[e + f \cdot x])^{n-2}) / (f \cdot (a + b \cdot \text{Csc}[e + f \cdot x]))], x] - \text{Simp}[d^2 / (a \cdot b) \text{Int}[(d \cdot \text{Csc}[e + f \cdot x])^{n-2} \cdot (b \cdot (n-2) - a \cdot (n-1) \cdot \text{Csc}[e + f \cdot x]), x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[n, 1]$
4306. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (d_.)^n) / (\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[\text{Cot}[e + f \cdot x] \cdot ((d \cdot \text{Csc}[e + f \cdot x])^n) / (f \cdot (a + b \cdot \text{Csc}[e + f \cdot x]))], x] - \text{Simp}[1/a^2 \text{Int}[(d \cdot \text{Csc}[e + f \cdot x])^n \cdot (a \cdot (n-1) - b \cdot n \cdot \text{Csc}[e + f \cdot x]), x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[n, 0]$
4307. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (d_.)^n) / (\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[(-b) \cdot d \cdot \text{Cot}[e + f \cdot x] \cdot ((d \cdot \text{Csc}[e + f \cdot x])^{n-1}) / (a \cdot f \cdot (a + b \cdot \text{Csc}[e + f \cdot x]))], x] + \text{Simp}[d \cdot ((n-1) / (a \cdot b)) \text{Int}[(d \cdot \text{Csc}[e + f \cdot x])^{n-1} \cdot (a - b \cdot \text{Csc}[e + f \cdot x]), x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
4308. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (d_.)^{3/2}) / \text{Sqrt}[\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[d/b \text{Int}[\text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]] \cdot \text{Sqrt}[d \cdot \text{Csc}[e + f \cdot x]], x], x] - \text{Simp}[a \cdot (d/b) \text{Int}[\text{Sqrt}[d \cdot \text{Csc}[e + f \cdot x]] / \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]], x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
4309. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (d_.)^n) / \text{Sqrt}[\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[-2 \cdot d^2 \cdot \text{Cot}[e + f \cdot x] \cdot ((d \cdot \text{Csc}[e + f \cdot x])^{n-2}) / (f \cdot (2 \cdot n - 3) \cdot \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]])], x] + \text{Simp}[d^2 / (b \cdot (2 \cdot n - 3)) \text{Int}[(d \cdot \text{Csc}[e + f \cdot x])^{n-2} \cdot ((2 \cdot b \cdot (n-2) - a \cdot \text{Csc}[e + f \cdot x]) / \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]])], x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[n, 2] \ \&\& \ \text{IntegerQ}[2 \cdot n]$
4310. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (d_.)^n) / \text{Sqrt}[\text{csc}[e_.] + (f_.) \cdot (x_.) \cdot (b_.) + (a_)], x_Symbol] \rightarrow \text{Simp}[\text{Cot}[e + f \cdot x] \cdot ((d \cdot \text{Csc}[e + f \cdot x])^n) / (f \cdot n \cdot \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]])], x] + \text{Simp}[1 / (2 \cdot b \cdot d \cdot n) \text{Int}[(d \cdot \text{Csc}[e + f \cdot x])^{n+1} \cdot ((a + b \cdot (2 \cdot n + 1) \cdot \text{Csc}[e + f \cdot x]) / \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]])], x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[n, 0]$

&& IntegerQ[2*n]

4311. $\text{Int}[(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(d_{_}))^{(n_{_})}*(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_}))^{(m_{_})}, x_Symbol] \rightarrow \text{Simp}[(-d^{2})*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{m}*(d*\text{Csc}[e + f*x])^{(n - 2)}/(f*(m + n - 1))), x] + \text{Simp}[d^{2}/(b*(m + n - 1)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{m}*(d*\text{Csc}[e + f*x])^{(n - 2)}*(b*(n - 2) + a*m*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, d, e, f, m\}, x] \&\& \text{EqQ}[a^{2} - b^{2}, 0] \&\& \text{GtQ}[n, 2] \&\& \text{NeQ}[m + n - 1, 0] \&\& \text{IntegerQ}[n]$
4312. $\text{Int}[(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(d_{_}))^{(n_{_})}*(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_}))^{(m_{_})}, x_Symbol] \rightarrow \text{Simp}[(-a*(d/b)^{n}*(\text{Cot}[e + f*x]/(a^{(n - 2)}*f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[a - b*\text{Csc}[e + f*x]])) \text{Subst}[\text{Int}[(a - x)^{(n - 1)}*((2*a - x)^{(m - 1/2)}/\text{Sqrt}[x]), x], x, a - b*\text{Csc}[e + f*x]], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^{2} - b^{2}, 0] \&\& !\text{IntegerQ}[m] \&\& \text{GtQ}[a, 0] \&\& !\text{IntegerQ}[n] \&\& \text{GtQ}[a*(d/b), 0]$
4313. $\text{Int}[(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(d_{_}))^{(n_{_})}*(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_}))^{(m_{_})}, x_Symbol] \rightarrow \text{Simp}[(-((-a)*(d/b))^{n}*(\text{Cot}[e + f*x]/(a^{(n - 1)}*f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[a - b*\text{Csc}[e + f*x]])) \text{Subst}[\text{Int}[x^{(m - 1/2)}*((a - x)^{(n - 1)}/\text{Sqrt}[2*a - x]), x], x, a + b*\text{Csc}[e + f*x]], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^{2} - b^{2}, 0] \&\& !\text{IntegerQ}[m] \&\& \text{GtQ}[a, 0] \&\& !\text{IntegerQ}[n] \&\& \text{LtQ}[a*(d/b), 0]$
4314. $\text{Int}[(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(d_{_}))^{(n_{_})}*(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_}))^{(m_{_})}, x_Symbol] \rightarrow \text{Simp}[a^{2}*d*(\text{Cot}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[a - b*\text{Csc}[e + f*x]])) \text{Subst}[\text{Int}[(d*x)^{(n - 1)}*((a + b*x)^{(m - 1/2)}/\text{Sqrt}[a - b*x]), x], x, \text{Csc}[e + f*x]], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^{2} - b^{2}, 0] \&\& !\text{IntegerQ}[m] \&\& \text{GtQ}[a, 0]$
4315. $\text{Int}[(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(d_{_}))^{(n_{_})}*(\text{csc}[(e_{_}) + (f_{_})*(x_{_})]*(b_{_}) + (a_{_}))^{(m_{_})}, x_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[m]}*((a + b*\text{Csc}[e + f*x])^{\text{FracPart}[m]}/(1 + (b/a)*\text{Csc}[e + f*x])^{\text{FracPart}[m]}) \text{Int}[(1 + (b/a)*\text{Csc}[e + f*x])^{m}*(d*\text{Csc}[e + f*x])^{n}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x] \&\& \text{EqQ}[a^{2} - b^{2}, 0] \&\& !\text{IntegerQ}[m] \&\& !\text{GtQ}[a, 0]$

4316. $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.)], x_Symbol] \rightarrow \text{Simp}[(a - b) \text{Int}[\text{Csc}[e + f*x]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[b \text{Int}[\text{Csc}[e + f*x]*((1 + \text{Csc}[e + f*x])/\text{Sqrt}[a + b*\text{Csc}[e + f*x]]), x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4317. $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-b)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m - 1)}/(f*m)), x] + \text{Simp}[1/m \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 2)}*(b^2*(m - 1) + a^2*m + a*b*(2*m - 1)*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m, 1] \&\& \text{IntegerQ}[2*m]$
4318. $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]/(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.)), x_Symbol] \rightarrow \text{Simp}[1/b \text{Int}[1/(1 + (a/b)*\text{Sin}[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4319. $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.)], x_Symbol] \rightarrow \text{Simp}[-2*(\text{Rt}[a + b, 2]/(b*f*\text{Cot}[e + f*x]))*\text{Sqrt}[(b*(1 - \text{Csc}[e + f*x]))/(a + b)]*\text{Sqrt}[(-b)*((1 + \text{Csc}[e + f*x])/(a - b))]*\text{EllipticF}[\text{ArcSin}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/\text{Rt}[a + b, 2]], (a + b)/(a - b)], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4320. $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-b)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)}/(f*(m + 1)*(a^2 - b^2))), x] + \text{Simp}[1/((m + 1)*(a^2 - b^2)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(a*(m + 1) - b*(m + 2)*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{IntegerQ}[2*m]$
4321. $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Cot}[e + f*x]/(f*\text{Sqrt}[1 + \text{Csc}[e + f*x]]*\text{Sqrt}[1 - \text{Csc}[e + f*x]]) \text{Subst}[\text{Int}[(a + b*x)^m/(\text{Sqrt}[1 + x]*\text{Sqrt}[1 - x]), x], x, \text{Csc}[e + f*x]], x] /; \text{FreeQ}[\{a, b, e, f, m\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& !\text{IntegerQ}[2*m]$
4322. $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]^2*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-\text{Cot}[e + f*x])*((a + b*\text{Csc}[e + f*x])^m/(f*(m + 1))), x] + \text{Simp}[m/(m + 1) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 1)}], x]$

- 1)*(b + a*Csc[e + f*x]), x], x] /; FreeQ[{a, b, e, f}, x] && NeQ[a^2 - b^2, 0] && GtQ[m, 0]
4323. Int[csc[(e_.) + (f_.)*(x_)]^2*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_), x_Symbol] := Simp[a*Cot[e + f*x]*((a + b*Csc[e + f*x])^(m + 1)/(f*(m + 1)*(a^2 - b^2))), x] - Simp[1/((m + 1)*(a^2 - b^2)) Int[Csc[e + f*x]*(a + b*Csc[e + f*x])^(m + 1)*(b*(m + 1) - a*(m + 2)*Csc[e + f*x]), x], x] /; FreeQ[{a, b, e, f}, x] && NeQ[a^2 - b^2, 0] && LtQ[m, -1]
4324. Int[csc[(e_.) + (f_.)*(x_)]^2/Sqrt[csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)], x_Symbol] := -Int[Csc[e + f*x]/Sqrt[a + b*Csc[e + f*x]], x] + Int[Csc[e + f*x]*((1 + Csc[e + f*x])/Sqrt[a + b*Csc[e + f*x]]), x] /; FreeQ[{a, b, e, f}, x] && NeQ[a^2 - b^2, 0]
4325. Int[csc[(e_.) + (f_.)*(x_)]^2*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_), x_Symbol] := Simp[-a/b Int[Csc[e + f*x]*(a + b*Csc[e + f*x])^m, x], x] + Simp[1/b Int[Csc[e + f*x]*(a + b*Csc[e + f*x])^(m + 1), x], x] /; FreeQ[{a, b, e, f, m}, x] && NeQ[a^2 - b^2, 0]
4326. Int[csc[(e_.) + (f_.)*(x_)]^3*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_), x_Symbol] := Simp[(-a^2)*Cot[e + f*x]*((a + b*Csc[e + f*x])^(m + 1)/(b*f*(m + 1)*(a^2 - b^2))), x] + Simp[1/(b*(m + 1)*(a^2 - b^2)) Int[Csc[e + f*x]*(a + b*Csc[e + f*x])^(m + 1)*Simp[a*b*(m + 1) - (a^2 + b^2*(m + 1))*Csc[e + f*x], x], x], x] /; FreeQ[{a, b, e, f}, x] && NeQ[a^2 - b^2, 0] && LtQ[m, -1]
4327. Int[csc[(e_.) + (f_.)*(x_)]^3*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_), x_Symbol] := Simp[(-Cot[e + f*x])*((a + b*Csc[e + f*x])^(m + 1)/(b*f*(m + 2))), x] + Simp[1/(b*(m + 2)) Int[Csc[e + f*x]*(a + b*Csc[e + f*x])^m*(b*(m + 1) - a*Csc[e + f*x]), x], x] /; FreeQ[{a, b, e, f, m}, x] && NeQ[a^2 - b^2, 0] && !LtQ[m, -1]
4328. Int[(csc[(e_.) + (f_.)*(x_)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_), x_Symbol] := Simp[a^2*Cot[e + f*x]*(a + b*Csc[e + f*x])^(m - 2)*((d*Csc[e + f*x])^n/(f*n)), x] - Simp[1/(d*n) Int[(a + b*Csc[e + f*x])^(m - 3)*(d*Csc[e + f*x])^(n + 1)*Simp[a^2*b*(m - 2*n - 2)

- $$- a*(3*b^2*n + a^2*(n + 1))*Csc[e + f*x] - b*(b^2*n + a^2*(m + n - 1)) * Csc[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f}, x] \&\& NeQ[a^2 - b^2, 0] \&\& GtQ[m, 2] \&\& ((IntegerQ[m] \&\& LtQ[n, -1]) || (IntegersQ[m + 1/2, 2*n] \&\& LeQ[n, -1]))$$
4329.
$$\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)^{(n_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(-b^2)*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 2)}*((d*\text{Csc}[e + f*x])^n/(f*(m + n - 1))), x] + \text{Simp}[1/(d*(m + n - 1)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m - 3)}*(d*\text{Csc}[e + f*x])^n*\text{Simp}[a^3*d*(m + n - 1) + a*b^2*d*n + b*(b^2*d*(m + n - 2) + 3*a^2*d*(m + n - 1))*\text{Csc}[e + f*x] + a*b^2*d*(3*m + 2*n - 4)*\text{Csc}[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, n}, x] \&\& NeQ[a^2 - b^2, 0] \&\& GtQ[m, 2] \&\& (IntegerQ[m] || IntegersQ[2*m, 2*n]) \&\& !(IGtQ[n, 2] \&\& !IntegerQ[m])$$
4330.
$$\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)^{(n_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(-b)*d*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*((d*\text{Csc}[e + f*x])^{(n - 1)}/(f*(m + 1)*(a^2 - b^2))), x] + \text{Simp}[1/((m + 1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(d*\text{Csc}[e + f*x])^{(n - 1)}*\text{Simp}[b*d*(n - 1) + a*d*(m + 1)*\text{Csc}[e + f*x] - b*d*(m + n + 1)*\text{Csc}[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f}, x] \&\& NeQ[a^2 - b^2, 0] \&\& LtQ[m, -1] \&\& LtQ[0, n, 1] \&\& IntegersQ[2*m, 2*n]$$
4331.
$$\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)^{(n_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[a*d^2*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*((d*\text{Csc}[e + f*x])^{(n - 2)}/(f*(m + 1)*(a^2 - b^2))), x] - \text{Simp}[d^2/((m + 1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(d*\text{Csc}[e + f*x])^{(n - 2)}*(a*(n - 2) + b*(m + 1)*\text{Csc}[e + f*x] - a*(m + n)*\text{Csc}[e + f*x]^2), x], x] /; FreeQ[{a, b, d, e, f}, x] \&\& NeQ[a^2 - b^2, 0] \&\& LtQ[m, -1] \&\& LtQ[1, n, 2] \&\& IntegersQ[2*m, 2*n]$$
4332.
$$\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)^{(n_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[(-a^2)*d^3*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*((d*\text{Csc}[e + f*x])^{(n - 3)}/(b*f*(m + 1)*(a^2 - b^2))), x] + \text{Simp}[d^3/(b*(m + 1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(d*\text{Csc}[e + f*x])^{(n - 3)}*\text{Simp}[a^2*(n - 3) + a*b*(m + 1)*\text{Csc}[e + f*x] - (a^2*(n - 2) + b^2*(m + 1))*\text{Csc}[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f}, x] \&\& NeQ[a^2 - b^2, 0] \&\& LtQ[m, -1] \&\& (IGtQ[n, 3] |$$

| (IntegersQ[n + 1/2, 2*m] && GtQ[n, 2]))

4333. $\text{Int}[(\text{csc}[e] + (f)(x))(d)]^{(n)}(\text{csc}[e] + (f)(x))(b + a)^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[\text{Cot}[e + f*x](a + b*\text{Csc}[e + f*x])^{(m+1)}((d*\text{Csc}[e + f*x])^n/(a*f*n))$, x] - $\text{Simp}[1/(a*d*n) \text{Int}[(a + b*\text{Csc}[e + f*x])^m(d*\text{Csc}[e + f*x])^{(n+1)}\text{Simp}[b*(m+n+1) - a*(n+1)*\text{Csc}[e + f*x] - b*(m+n+2)*\text{Csc}[e + f*x]^2$, x], x] /; $\text{FreeQ}[\{a, b, d, e, f\}, x]$ && $\text{NeQ}[a^2 - b^2, 0]$ && $\text{ILtQ}[m + 1/2, 0]$ && $\text{ILtQ}[n, 0]$
4334. $\text{Int}[(\text{csc}[e] + (f)(x))(d)]^{(n)}(\text{csc}[e] + (f)(x))(b + a)^{(m)}$, x_Symbol] $\rightarrow \text{Simp}[b^2*\text{Cot}[e + f*x](a + b*\text{Csc}[e + f*x])^{(m+1)}((d*\text{Csc}[e + f*x])^n/(a*f*(m+1)*(a^2 - b^2)))$, x] + $\text{Simp}[1/(a*(m+1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m+1)}(d*\text{Csc}[e + f*x])^n(a^2*(m+1) - b^2*(m+n+1) - a*b*(m+1)*\text{Csc}[e + f*x] + b^2*(m+n+2)*\text{Csc}[e + f*x]^2)$, x], x] /; $\text{FreeQ}[\{a, b, d, e, f, n\}, x]$ && $\text{NeQ}[a^2 - b^2, 0]$ && $\text{LtQ}[m, -1]$ && $\text{IntegersQ}[2*m, 2*n]$
4335. $\text{Int}[\text{Sqrt}[\text{csc}[e] + (f)(x)](d)/(\text{csc}[e] + (f)(x))(b + a)$, x_Symbol] $\rightarrow \text{Simp}[\text{Sqrt}[d*\text{Sin}[e + f*x]](\text{Sqrt}[d*\text{Csc}[e + f*x]]/d) \text{Int}[\text{Sqrt}[d*\text{Sin}[e + f*x]]/(b + a*\text{Sin}[e + f*x])$, x], x] /; $\text{FreeQ}[\{a, b, d, e, f\}, x]$ && $\text{NeQ}[a^2 - b^2, 0]$
4336. $\text{Int}[(\text{csc}[e] + (f)(x))(d)]^{(3/2)}/(\text{csc}[e] + (f)(x))(b + a)$, x_Symbol] $\rightarrow \text{Simp}[d*\text{Sqrt}[d*\text{Sin}[e + f*x]]*\text{Sqrt}[d*\text{Csc}[e + f*x]] \text{Int}[1/(\text{Sqrt}[d*\text{Sin}[e + f*x]]*(b + a*\text{Sin}[e + f*x]))$, x], x] /; $\text{FreeQ}[\{a, b, d, e, f\}, x]$ && $\text{NeQ}[a^2 - b^2, 0]$
4337. $\text{Int}[(\text{csc}[e] + (f)(x))(d)]^{(5/2)}/(\text{csc}[e] + (f)(x))(b + a)$, x_Symbol] $\rightarrow \text{Simp}[d/b \text{Int}[(d*\text{Csc}[e + f*x])^{(3/2)}$, x], x] - $\text{Simp}[a*(d/b) \text{Int}[(d*\text{Csc}[e + f*x])^{(3/2)}/(a + b*\text{Csc}[e + f*x])$, x], x] /; $\text{FreeQ}[\{a, b, d, e, f\}, x]$ && $\text{NeQ}[a^2 - b^2, 0]$
4338. $\text{Int}[(\text{csc}[e] + (f)(x))(d)]^{(n)}/(\text{csc}[e] + (f)(x))(b + a)$, x_Symbol] $\rightarrow \text{Simp}[(-d^3)*\text{Cot}[e + f*x]*((d*\text{Csc}[e + f*x])^{(n-3)}/(b*f*(n-2)))$, x] + $\text{Simp}[d^3/(b*(n-2)) \text{Int}[(d*\text{Csc}[e + f*x])^{(n-3)}(\text{Simp}[a*(n-3) + b*(n-3)*\text{Csc}[e + f*x] - a*(n-2)*\text{Csc}[e + f*x]^2$, x)]/(a + b*\text{Csc}[e + f*x]), x], x] /; $\text{FreeQ}[\{a, b, d, e, f\}, x]$ &

& NeQ[a^2 - b^2, 0] && GtQ[n, 3]

4339. Int[1/(Sqrt[csc[(e_.) + (f_.)*(x_.)]*(d_.)]*(csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))), x_Symbol] := Simp[b^2/(a^2*d^2) Int[(d*Csc[e + f*x])^(3/2)/(a + b*Csc[e + f*x]), x], x] + Simp[1/a^2 Int[(a - b*Csc[e + f*x])/Sqrt[d*Csc[e + f*x]], x], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0]

4340. Int[(csc[(e_.) + (f_.)*(x_.)]*(d_.))^(n_)/(csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)), x_Symbol] := Simp[Cot[e + f*x]*((d*Csc[e + f*x])^n/(a*f*n)), x] - Simp[1/(a*d*n) Int[((d*Csc[e + f*x])^(n + 1)/(a + b*Csc[e + f*x]))*Simp[b*n - a*(n + 1)*Csc[e + f*x] - b*(n + 1)*Csc[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0] && LeQ[n, -1] && IntegerQ[2*n]

4341. Int[Sqrt[csc[(e_.) + (f_.)*(x_.)]*(d_.)]*Sqrt[csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)], x_Symbol] := Simp[a Int[Sqrt[d*Csc[e + f*x]]/Sqrt[a + b*Csc[e + f*x]], x], x] + Simp[b/d Int[(d*Csc[e + f*x])^(3/2)/Sqrt[a + b*Csc[e + f*x]], x], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0]

4342. Int[(csc[(e_.) + (f_.)*(x_.)]*(d_.))^(n_)*Sqrt[csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)], x_Symbol] := Simp[-2*d*Cos[e + f*x]*Sqrt[a + b*Csc[e + f*x]]*((d*Csc[e + f*x])^(n - 1)/(f*(2*n - 1))), x] + Simp[d^2/(2*n - 1) Int[(d*Csc[e + f*x])^(n - 2)*(Simp[2*a*(n - 2) + b*(2*n - 3)*Csc[e + f*x] + a*Csc[e + f*x]^2, x])/Sqrt[a + b*Csc[e + f*x]], x], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0] && GtQ[n, 1] && IntegerQ[2*n]

4343. Int[Sqrt[csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]/Sqrt[csc[(e_.) + (f_.)*(x_.)]*(d_.)], x_Symbol] := Simp[Sqrt[a + b*Csc[e + f*x]]/(Sqrt[d*Csc[e + f*x]]*Sqrt[b + a*Sin[e + f*x]]) Int[Sqrt[b + a*Sin[e + f*x]], x], x] /; FreeQ[{a, b, d, e, f}, x] && NeQ[a^2 - b^2, 0]

4344. Int[(csc[(e_.) + (f_.)*(x_.)]*(d_.))^(n_)*Sqrt[csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)], x_Symbol] := Simp[Cot[e + f*x]*Sqrt[a + b*Csc[e + f*x]]*((d*Csc[e + f*x])^n/(f*n)), x] - Simp[1/(2*d*n) Int[(d*Csc[e + f*x]

- $$)^{(n+1)} * (\text{Simp}[b - 2*a*(n+1)*\text{Csc}[e + f*x] - b*(2*n+3)*\text{Csc}[e + f*x]^2, x] / \text{Sqrt}[a + b*\text{Csc}[e + f*x]]), x, x] /; \text{FreeQ}\{a, b, d, e, f\}, x \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LeQ}[n, -1] \&\& \text{IntegerQ}[2*n]$$
4345. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)] / \text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)], x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[d*\text{Csc}[e + f*x]]*(\text{Sqrt}[b + a*\text{Sin}[e + f*x]] / \text{Sqrt}[a + b*\text{Csc}[e + f*x]]) \text{Int}[1 / \text{Sqrt}[b + a*\text{Sin}[e + f*x]], x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x \&\& \text{NeQ}[a^2 - b^2, 0]$
4346. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.))^{3/2} / \text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)], x_Symbol] \rightarrow \text{Simp}[d*\text{Sqrt}[d*\text{Csc}[e + f*x]]*(\text{Sqrt}[b + a*\text{Sin}[e + f*x]] / \text{Sqrt}[a + b*\text{Csc}[e + f*x]]) \text{Int}[1 / (\text{Sin}[e + f*x]*\text{Sqrt}[b + a*\text{Sin}[e + f*x]]), x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x \&\& \text{NeQ}[a^2 - b^2, 0]$
4347. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.))^{(n)} / \text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)], x_Symbol] \rightarrow \text{Simp}[-2*d^2*\text{Cos}[e + f*x]*(d*\text{Csc}[e + f*x])^{(n-2)}*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]] / (b*f*(2*n-3))), x] + \text{Simp}[d^3 / (b*(2*n-3)) \text{Int}[(d*\text{Csc}[e + f*x])^{(n-3)} / \text{Sqrt}[a + b*\text{Csc}[e + f*x]]]*\text{Simp}[2*a*(n-3) + b*(2*n-5)*\text{Csc}[e + f*x] - 2*a*(n-2)*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[n, 2] \&\& \text{IntegerQ}[2*n]$
4348. $\text{Int}[1 / (\text{csc}[(e_.) + (f_.)*(x_)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)]), x_Symbol] \rightarrow \text{Simp}[(-\text{Cos}[e + f*x])*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]] / (a*f)), x] - \text{Simp}[b / (2*a) \text{Int}[(1 + \text{Csc}[e + f*x]^2) / \text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] /; \text{FreeQ}\{a, b, e, f\}, x \&\& \text{NeQ}[a^2 - b^2, 0]$
4349. $\text{Int}[1 / (\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)]), x_Symbol] \rightarrow \text{Simp}[1/a \text{Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]] / \text{Sqrt}[d*\text{Csc}[e + f*x]], x], x] - \text{Simp}[b / (a*d) \text{Int}[\text{Sqrt}[d*\text{Csc}[e + f*x]] / \text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x \&\& \text{NeQ}[a^2 - b^2, 0]$
4350. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.))^{(n)} / \text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)], x_Symbol] \rightarrow \text{Simp}[\text{Cos}[e + f*x]*(d*\text{Csc}[e + f*x])^{(n+1)}*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]] / (a*d*f*n)), x] + \text{Simp}[1 / (2*a*d*n) \text{Int}[(d$

- $$\text{*Csc}[e + f*x]^{(n + 1)}/\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Simp}[(-b)*(2*n + 1) + 2*a*(n + 1)*\text{Csc}[e + f*x] + b*(2*n + 3)*\text{Csc}[e + f*x]^2, x], x] /;$$

$$\text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{IntegerQ}[2*n]$$
4351.
$$\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.))^{(n_.)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(3/2)}, x_Symbol] \rightarrow \text{Simp}[a*\text{Cot}[e + f*x]*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*((d*\text{Csc}[e + f*x])^n/(f*n)), x] + \text{Simp}[1/(2*d*n) \ \text{Int}[(d*\text{Csc}[e + f*x])^{(n + 1)}/\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Simp}[a*b*(2*n - 1) + 2*(b^2*n + a^2*(n + 1))*\text{Csc}[e + f*x] + a*b*(2*n + 3)*\text{Csc}[e + f*x]^2, x], x], x] /;$$

$$\text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{LeQ}[n, -1] \ \&\& \ \text{IntegerQ}[2*n]$$
4352.
$$\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.))^{(n_.)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-d^3)*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*((d*\text{Csc}[e + f*x])^{(n - 3)}/(b*f*(m + n - 1))), x] + \text{Simp}[d^3/(b*(m + n - 1)) \ \text{Int}[(a + b*\text{Csc}[e + f*x])^m*(d*\text{Csc}[e + f*x])^{(n - 3)}*\text{Simp}[a*(n - 3) + b*(m + n - 2)*\text{Csc}[e + f*x] - a*(n - 2)*\text{Csc}[e + f*x]^2, x], x], x] /;$$

$$\text{FreeQ}[\{a, b, d, e, f, m\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{GtQ}[n, 3] \ \&\& \ (\text{IntegerQ}[n] \ || \ \text{IntegersQ}[2*m, 2*n]) \ \&\& \ !\text{IGtQ}[m, 2]$$
4353.
$$\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.))^{(n_.)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-b)*d*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 1)}*((d*\text{Csc}[e + f*x])^{(n - 1)}/(f*(m + n - 1))), x] + \text{Simp}[d/(m + n - 1) \ \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m - 2)}*(d*\text{Csc}[e + f*x])^{(n - 1)}*\text{Simp}[a*b*(n - 1) + (b^2*(m + n - 2) + a^2*(m + n - 1))*\text{Csc}[e + f*x] + a*b*(2*m + n - 2)*\text{Csc}[e + f*x]^2, x], x], x] /;$$

$$\text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[0, m, 2] \ \&\& \ \text{LtQ}[0, n, 3] \ \&\& \ \text{NeQ}[m + n - 1, 0] \ \&\& \ (\text{IntegerQ}[m] \ || \ \text{IntegersQ}[2*m, 2*n])$$
4354.
$$\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.))^{(n_.)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-d^2)*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^m*((d*\text{Csc}[e + f*x])^{(n - 2)}/(f*(m + n - 1))), x] + \text{Simp}[d^2/(b*(m + n - 1)) \ \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m - 1)}*(d*\text{Csc}[e + f*x])^{(n - 2)}*\text{Simp}[a*b*(n - 2) + b^2*(m + n - 2)*\text{Csc}[e + f*x] + a*b*m*\text{Csc}[e + f*x]^2, x], x], x] /;$$

$$\text{FreeQ}[\{a, b, d, e, f\}, x] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{LtQ}[-1, m, 2] \ \&\& \ \text{LtQ}[1, n, 3] \ \&\& \ \text{NeQ}[m + n - 1, 0] \ \&\& \ (\text{IntegerQ}[n] \ || \ \text{IntegersQ}[2*m, 2*n])$$

egersQ[2*m, 2*n])

4355. $\text{Int}[(\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(b_{-}) + (a_{-}))^{(3/2)}/\text{Sqrt}[\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(d_{-})], x_{\text{Symbol}}] \rightarrow \text{Simp}[a \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]]/\text{Sqrt}[d*\text{Csc}[e + f*x]], x], x] + \text{Simp}[b/d \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[d*\text{Csc}[e + f*x]], x], x] /; \text{FreeQ}[\{a, b, d, e, f\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4356. $\text{Int}[(\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(d_{-}))^{(n_{-})}*(\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(b_{-}) + (a_{-}))^{(m_{-})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Sin}[e + f*x]^{n_{-}}*(d*\text{Csc}[e + f*x])^{n_{-}} \text{ Int}[(b + a*\text{Sin}[e + f*x])^m/\text{Sin}[e + f*x]^{(m+n)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, n\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m]$
4357. $\text{Int}[(\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(d_{-}))^{(n_{-})}*(\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(b_{-}) + (a_{-}))^{(m_{-})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d*\text{Csc}[e + f*x])^{n_{-}}*(a + b*\text{Csc}[e + f*x])^m, x] /; \text{FreeQ}[\{a, b, d, e, f, m, n\}, x]$
4358. $\text{Int}[(\text{cos}[(e_{-}) + (f_{-})*(x_{-})]*(d_{-}))^{(m_{-})}*((a_{-}) + (b_{-})*\text{sec}[(e_{-}) + (f_{-})*(x_{-})])^{(p_{-})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d*\text{Cos}[e + f*x])^{\text{FracPart}[m]}*(\text{Sec}[e + f*x]/d)^{\text{FracPart}[m]} \text{ Int}[(a + b*\text{Sec}[e + f*x])^p/(\text{Sec}[e + f*x]/d)^m, x], x] /; \text{FreeQ}[\{a, b, d, e, f, m, p\}, x] \&\& !\text{IntegerQ}[m] \&\& !\text{IntegerQ}[p]$
4359. $\text{Int}[\text{cos}[(e_{-}) + (f_{-})*(x_{-})]^{(p_{-})}*(\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(b_{-}) + (a_{-}))^{(m_{-})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{Cot}[e + f*x]^p*(b + a*\text{Sin}[e + f*x])^m, x] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[m] \&\& \text{EqQ}[m, p]$
4360. $\text{Int}[(\text{cos}[(e_{-}) + (f_{-})*(x_{-})]*(g_{-}))^{(p_{-})}*(\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(b_{-}) + (a_{-}))^{(m_{-})}, x_{\text{Symbol}}] \rightarrow \text{Int}[(g*\text{Cos}[e + f*x])^p*((b + a*\text{Sin}[e + f*x])^m/\text{Sin}[e + f*x]^m), x] /; \text{FreeQ}[\{a, b, e, f, g, p\}, x] \&\& \text{IntegerQ}[m]$
4361. $\text{Int}[\text{cos}[(e_{-}) + (f_{-})*(x_{-})]^{(p_{-})}*(\text{csc}[(e_{-}) + (f_{-})*(x_{-})]*(b_{-}) + (a_{-}))^{(m_{-})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-(f*b^{(p-1)})^{(-1)} \text{ Subst}[\text{Int}[(-a + b*x)^{((p-1)/2)*((a + b*x)^{(m+(p-1)/2)}/x^{(p+1)})}, x], x, \text{Csc}[e + f*x]], x] /; \text{FreeQ}[\{a, b, e, f, m\}, x] \&\& \text{IntegerQ}[(p-1)/2] \&\& \text{EqQ}[a^2 -$

$b^2, 0]$

4362. $\text{Int}[\cos[(e_.) + (f_.)(x_)]^{(p_.)} * (\csc[(e_.) + (f_.)(x_)] * (b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[-f^{(-1)} \text{Subst}[\text{Int}[(-1 + x)^{((p - 1)/2) * (1 + x)^{((p - 1)/2) * ((a + b*x)^m/x^{(p + 1))}], x], x, \text{Csc}[e + f*x]], x] /;$
 $\text{FreeQ}\{a, b, e, f, m\}, x\} \&\& \text{IntegerQ}[(p - 1)/2] \&\& \text{NeQ}[a^2 - b^2, 0]$
4363. $\text{Int}[(\csc[(e_.) + (f_.)(x_)] * (b_.) + (a_.))^{(m_.)} / \cos[(e_.) + (f_.)(x_)]^2, x_Symbol] \rightarrow \text{Simp}[\text{Tan}[e + f*x] * ((a + b*\text{Csc}[e + f*x])^m / f), x] + \text{Simp}[b^m \text{Int}[\text{Csc}[e + f*x] * (a + b*\text{Csc}[e + f*x])^{(m - 1)}], x], x] /;$
 $\text{FreeQ}\{a, b, e, f, m\}, x]$
4364. $\text{Int}[(\cos[(e_.) + (f_.)(x_)] * (g_.))^{(p_.)} * (\csc[(e_.) + (f_.)(x_)] * (b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sin}[e + f*x]^{\text{FracPart}[m]} * ((a + b*\text{Csc}[e + f*x])^{\text{FracPart}[m]} / (b + a*\text{Sin}[e + f*x])^{\text{FracPart}[m]}) \text{Int}[(g*\text{Cos}[e + f*x])^p * ((b + a*\text{Sin}[e + f*x])^m / \text{Sin}[e + f*x]^m), x], x] /;$
 $\text{FreeQ}\{a, b, e, f, g, m, p\}, x\} \&\& (\text{EqQ}[a^2 - b^2, 0] \parallel \text{IntegersQ}[2*m, p])]$
4365. $\text{Int}[(\cos[(e_.) + (f_.)(x_)] * (g_.))^{(p_.)} * (\csc[(e_.) + (f_.)(x_)] * (b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(g*\text{Cos}[e + f*x])^p * (a + b*\text{Csc}[e + f*x])^m, x] /;$
 $\text{FreeQ}\{a, b, e, f, g, m, p\}, x]$
4366. $\text{Int}[(\csc[(e_.) + (f_.)(x_)] * (b_.) + (a_.))^{(m_.)} * ((g_.) * \sec[(e_.) + (f_.)(x_)])^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[g^{\text{IntPart}[p]} * (g*\text{Sec}[e + f*x])^{\text{FracPart}[p]} * \text{Cos}[e + f*x]^{\text{FracPart}[p]} \text{Int}[(a + b*\text{Csc}[e + f*x])^m / \text{Cos}[e + f*x]^p, x], x] /;$
 $\text{FreeQ}\{a, b, e, f, g, m, p\}, x\} \&\& \text{!IntegerQ}[p]$
4367. $\text{Int}[\cot[(c_.) + (d_.)(x_)]^{(m_.)} * (\csc[(c_.) + (d_.)(x_)] * (b_.) + (a_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[1/(a^{(m - n - 1)} * b^{n*d}) \text{Subst}[\text{Int}[(a - b*x)^{((m - 1)/2) * ((a + b*x)^{((m - 1)/2 + n)/x^{(m + n))}], x], x, \text{Sin}[c + d*x]], x] /;$
 $\text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[n]$
4368. $\text{Int}[\cot[(c_.) + (d_.)(x_)]^{(m_.)} * (\csc[(c_.) + (d_.)(x_)] * (b_.) + (a_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[-(d*b^{(m - 1)})^{(-1)} \text{Subst}[\text{Int}[(-a + b*x)^{((m - 1)/2) * ((a + b*x)^{((m - 1)/2 + n)/x}], x], x, \text{Csc}[c + d*x]], x] /;$

- FreeQ[{a, b, c, d, n}, x] && IntegerQ[(m - 1)/2] && EqQ[a^2 - b^2, 0]
&& !IntegerQ[n]
4369. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] :> Simp[(-e)*(e*Cot[c + d*x])^(m - 1)*((a*m + b*(m - 1)*Csc[c + d*x])/(d*m*(m - 1))), x] - Simp[e^2/m Int[(e*Cot[c + d*x])^(m - 2)*(a*m + b*(m - 1)*Csc[c + d*x]), x], x] /; FreeQ[{a, b, c, d, e}, x] && GtQ[m, 1]
4370. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] :> Simp[(-e*Cot[c + d*x])^(m + 1)*((a + b*Csc[c + d*x])/(d*e*(m + 1))), x] - Simp[1/(e^2*(m + 1)) Int[(e*Cot[c + d*x])^(m + 2)*(a*(m + 1) + b*(m + 2)*Csc[c + d*x]), x], x] /; FreeQ[{a, b, c, d, e}, x] && LtQ[m, -1]
4371. Int[(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))/cot[(c_.) + (d_.)*(x_)], x_Symbol] :> Int[(b + a*Sin[c + d*x])/Cos[c + d*x], x] /; FreeQ[{a, b, c, d}, x]
4372. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_.)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] :> Simp[a Int[(e*Cot[c + d*x])^m, x], x] + Simp[b Int[(e*Cot[c + d*x])^m*Csc[c + d*x], x], x] /; FreeQ[{a, b, c, d, e, m}, x]
4373. Int[cot[(c_.) + (d_.)*(x_)]^(m_.)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] :> Simp[-(-1)^((m - 1)/2)/(d*b^(m - 1)) Subst[Int[(b^2 - x^2)^((m - 1)/2)*((a + x)^n/x), x], x, b*Csc[c + d*x]], x] /; FreeQ[{a, b, c, d, n}, x] && IntegerQ[(m - 1)/2] && NeQ[a^2 - b^2, 0]
4374. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] :> Int[ExpandIntegrand[(e*Cot[c + d*x])^m, (a + b*Csc[c + d*x])^n, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[n, 0]
4375. Int[cot[(c_.) + (d_.)*(x_)]^(m_.)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_.), x_Symbol] :> Simp[-2*(a^(m/2 + n + 1/2)/d) Subst[Int[x^m*(

- $(2 + a*x^2)^{(m/2 + n - 1/2)/(1 + a*x^2)}, x], x, \text{Cot}[c + d*x]/\text{Sqrt}[a + b*\text{Csc}[c + d*x]], x] /;$ FreeQ[{a, b, c, d}, x] && EqQ[a^2 - b^2, 0] && IntegerQ[m/2] && IntegerQ[n - 1/2]
4376. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_.))^(n_), x_Symbol] := Simp[a^(2*n)/e^(2*n) Int[(e*Cot[c + d*x])^(m + 2*n)/(-a + b*Csc[c + d*x])^n, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[a^2 - b^2, 0] && ILtQ[n, 0]
4377. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_.))^(n_), x_Symbol] := Simp[(-2^(m + n + 1))*(e*Cot[c + d*x])^(m + 1)*((a + b*Csc[c + d*x])^n/(d*e*(m + 1)))*(a/(a + b*Csc[c + d*x]))^(m + n + 1)*AppellF1[(m + 1)/2, m + n, 1, (m + 3)/2, -(a - b*Csc[c + d*x])/(a + b*Csc[c + d*x]), (a - b*Csc[c + d*x])/(a + b*Csc[c + d*x])], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && EqQ[a^2 - b^2, 0] && !IntegerQ[n]
4378. Int[Sqrt[cot[(c_.) + (d_.)*(x_)]*(e_.)]/(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_.)), x_Symbol] := Simp[1/a Int[Sqrt[e*Cot[c + d*x]], x], x] - Simp[b/a Int[Sqrt[e*Cot[c + d*x]]/(b + a*Sin[c + d*x]), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[a^2 - b^2, 0]
4379. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)/(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_.)), x_Symbol] := Simp[-e^2/b^2 Int[(e*Cot[c + d*x])^(m - 2)*(a - b*Csc[c + d*x]), x], x] + Simp[e^2*((a^2 - b^2)/b^2) Int[(e*Cot[c + d*x])^(m - 2)/(a + b*Csc[c + d*x]), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[a^2 - b^2, 0] && IGtQ[m - 1/2, 0]
4380. Int[1/(Sqrt[cot[(c_.) + (d_.)*(x_)]*(e_.)]*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_.))), x_Symbol] := Simp[1/a Int[1/Sqrt[e*Cot[c + d*x]], x], x] - Simp[b/a Int[1/(Sqrt[e*Cot[c + d*x]]*(b + a*Sin[c + d*x])), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[a^2 - b^2, 0]
4381. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)/(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_.)), x_Symbol] := Simp[1/(a^2 - b^2) Int[(e*Cot[c + d*x])^m*(a - b*Csc[c + d*x]), x], x] + Simp[b^2/(e^2*(a^2 - b^2)) Int[(e*Cot[c + d*x])^(m + 2)/(a + b*Csc[c + d*x]), x], x] /; FreeQ[{a, b, c, d, e}

- , x] && NeQ[a^2 - b^2, 0] && ILtQ[m + 1/2, 0]
4382. Int[cot[(c_.) + (d_.)*(x_)]^2*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] :> Int[(-1 + Csc[c + d*x]^2)*(a + b*Csc[c + d*x])^n, x] /; FreeQ[{a, b, c, d, n}, x] && NeQ[a^2 - b^2, 0]
4383. Int[cot[(c_.) + (d_.)*(x_)]^(m_)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] :> Int[ExpandIntegrand[(a + b*Csc[c + d*x])^n, (-1 + Csc[c + d*x]^2)^(m/2), x], x] /; FreeQ[{a, b, c, d, n}, x] && NeQ[a^2 - b^2, 0] && IGtQ[m/2, 0] && IntegerQ[n - 1/2]
4384. Int[cot[(c_.) + (d_.)*(x_)]^(m_)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] :> Int[ExpandIntegrand[(a + b*Csc[c + d*x])^n, (-1 + Sec[c + d*x]^2)^(-m/2), x], x] /; FreeQ[{a, b, c, d, n}, x] && NeQ[a^2 - b^2, 0] && ILtQ[m/2, 0] && IntegerQ[n - 1/2] && EqQ[m, -2]
4385. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] :> Int[ExpandIntegrand[(e*Cot[c + d*x])^m, (a + b*Csc[c + d*x])^n, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && NeQ[a^2 - b^2, 0] && IGtQ[n, 0]
4386. Int[cot[(c_.) + (d_.)*(x_)]^(m_.)*(csc[(c_.) + (d_.)*(x_)]*(b_.) + (a_))^(n_), x_Symbol] :> Int[Cos[c + d*x]^m*((b + a*Sin[c + d*x])^n/Sin[c + d*x]^(m + n)), x] /; FreeQ[{a, b, c, d}, x] && NeQ[a^2 - b^2, 0] && IntegerQ[n] && IntegerQ[m] && (IntegerQ[m/2] || LeQ[m, 1])
4387. Int[((a_.) + csc[(c_.) + (d_.)*(x_)]*(b_.))^(n_.)*(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_.), x_Symbol] :> Unintegrable[(e*Cot[c + d*x])^m*(a + b*Csc[c + d*x])^n, x] /; FreeQ[{a, b, c, d, e, m, n}, x]
4388. Int[(cot[(c_.) + (d_.)*(x_)]*(e_.))^(m_)*((a_) + (b_.)*sec[(c_.) + (d_.)*(x_)]^(n_.), x_Symbol] :> Simp[(e*Cot[c + d*x])^m*Tan[c + d*x]^m Int[(a + b*Sec[c + d*x])^n/Tan[c + d*x]^m, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && !IntegerQ[m]

4389. $\text{Int}[(a_+ + (b_-)\sec[(c_-) + (d_-)(x_-)])^{(n_-)}((e_-)\tan[(c_-) + (d_-)(x_-)]^{(p_-)})^{(m_-)}, x_Symbol] \rightarrow \text{Simp}[(e_)\tan[c + d*x]^{(p)}]^{(m)}/(e_)\tan[c + d*x]^{(m*p)} \text{Int}[(e_)\tan[c + d*x]^{(m*p)}(a + b*\sec[c + d*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x\} \&\& \text{!IntegerQ}[m]$
4390. $\text{Int}[(\cot[(c_-) + (d_-)(x_-)]^{(p_-)}(e_-))^{(m_-)}(\csc[(c_-) + (d_-)(x_-)]*(b_-) + (a_-))^{(n_-)}, x_Symbol] \rightarrow \text{Simp}[(e_)\cot[c + d*x]^{(p)}]^{(m)}/(e_)\cot[c + d*x]^{(m*p)} \text{Int}[(e_)\cot[c + d*x]^{(m*p)}(a + b*\csc[c + d*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x\} \&\& \text{!IntegerQ}[m]$
4391. $\text{Int}[(\csc[(e_-) + (f_-)(x_-)]*(b_-) + (a_-))^{(m_-)}(\csc[(e_-) + (f_-)(x_-)]*(d_-) + (c_-))^{(n_-)}, x_Symbol] \rightarrow \text{Simp}[c^n \text{Int}[\text{ExpandTrig}[(1 + (d/c)*\csc[e + f*x])^n, (a + b*\csc[e + f*x])^m, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x\} \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{ILtQ}[n, 0] \&\& \text{LtQ}[m + n, 2]$
4392. $\text{Int}[(\csc[(e_-) + (f_-)(x_-)]*(b_-) + (a_-))^{(m_-)}(\csc[(e_-) + (f_-)(x_-)]*(d_-) + (c_-))^{(n_-)}, x_Symbol] \rightarrow \text{Simp}[((-a)*c)^m \text{Int}[\cot[e + f*x]^{(2*m)}(c + d*\csc[e + f*x])^{(n - m)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x\} \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m] \&\& \text{RationalQ}[n] \&\& \text{!(IntegerQ}[n] \&\& \text{GtQ}[m - n, 0])]$
4393. $\text{Int}[(\csc[(e_-) + (f_-)(x_-)]*(b_-) + (a_-))^{(m_-)}(\csc[(e_-) + (f_-)(x_-)]*(d_-) + (c_-))^{(m_-)}, x_Symbol] \rightarrow \text{Simp}[((-a)*c)^{(m + 1/2)}(\cot[e + f*x]/(\text{Sqrt}[a + b*\csc[e + f*x]]*\text{Sqrt}[c + d*\csc[e + f*x]])) \text{Int}[\cot[e + f*x]^{(2*m)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m + 1/2]$
4394. $\text{Int}[\text{Sqrt}[\csc[(e_-) + (f_-)(x_-)]*(b_-) + (a_-)]*(\csc[(e_-) + (f_-)(x_-)]*(d_-) + (c_-))^{(n_-)}, x_Symbol] \rightarrow \text{Simp}[2*a*c*\cot[e + f*x]*((c + d*\csc[e + f*x])^{(n - 1)}/(f*(2*n - 1)*\text{Sqrt}[a + b*\csc[e + f*x]])), x] + \text{Simp}[c \text{Int}[\text{Sqrt}[a + b*\csc[e + f*x]]*(c + d*\csc[e + f*x])^{(n - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{GtQ}[n, 1/2]$
4395. $\text{Int}[\text{Sqrt}[\csc[(e_-) + (f_-)(x_-)]*(b_-) + (a_-)]*(\csc[(e_-) + (f_-)(x_-)]*(d_-) + (c_-))^{(n_-)}, x_Symbol] \rightarrow \text{Simp}[-2*a*\cot[e + f*x]*((c + d*\csc[e + f*x])^{(n - 1)}/(f*(2*n - 1)*\text{Sqrt}[a + b*\csc[e + f*x]])), x] + \text{Simp}[c \text{Int}[\text{Sqrt}[a + b*\csc[e + f*x]]*(c + d*\csc[e + f*x])^{(n - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{GtQ}[n, 1/2]$

- $(e + f*x)^n/(f*(2*n + 1)*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]), x] + \text{Simp}[1/c \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(c + d*\text{Csc}[e + f*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[n, -2^{(-1)}]$
4396. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(3/2)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[-4*a^2*\text{Cot}[e + f*x]*((c + d*\text{Csc}[e + f*x])^n/(f*(2*n + 1)*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] + \text{Simp}[a/c \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(c + d*\text{Csc}[e + f*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[n, -2^{(-1)}]$
4397. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(3/2)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[-2*a^2*\text{Cot}[e + f*x]*((c + d*\text{Csc}[e + f*x])^n/(f*(2*n + 1)*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] + \text{Simp}[a \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(c + d*\text{Csc}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LeQ}[n, -2^{(-1)}]$
4398. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(5/2)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[-8*a^3*\text{Cot}[e + f*x]*((c + d*\text{Csc}[e + f*x])^n/(f*(2*n + 1)*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] + \text{Simp}[a^2/c^2 \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(c + d*\text{Csc}[e + f*x])^{(n + 2)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[n, -2^{(-1)}]$
4399. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^{(n)}, x_Symbol] \rightarrow \text{Simp}[(-a)*c*(\text{Cot}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]])) \text{ Subst}[\text{Int}[(b + a*x)^{(m - 1/2)}*((d + c*x)^{(n - 1/2)}/x^{(m + n)}), x], x, \text{Sin}[e + f*x]], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m - 1/2] \&\& \text{EqQ}[m + n, 0]$
4400. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^{(n)}, x_Symbol] \rightarrow \text{Simp}[a*c*(\text{Cot}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]])) \text{ Subst}[\text{Int}[(a + b*x)^{(m - 1/2)}*((c + d*x)^{(n - 1/2)}/x), x], x, \text{Csc}[e + f*x]], x] /; \text{FreeQ}[\{a,$

- b, c, d, e, f, m, n, x && EqQ[$b*c + a*d, 0$] && EqQ[$a^2 - b^2, 0$]
4401. $\text{Int}[(\text{csc}(e_.) + (f_.)*(x_))*(b_.) + (a_)]*(\text{csc}(e_.) + (f_.)*(x_))*(d_.) + (c_.)$, x_Symbol] $\rightarrow \text{Simp}[a*c*x, x] + \text{Simp}[b*d \text{ Int}[\text{Csc}[e + f*x]^2, x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && EqQ[$b*c + a*d, 0$]
4402. $\text{Int}[(\text{csc}(e_.) + (f_.)*(x_))*(b_.) + (a_)]*(\text{csc}(e_.) + (f_.)*(x_))*(d_.) + (c_.)$, x_Symbol] $\rightarrow \text{Simp}[a*c*x, x] + (\text{Simp}[b*d \text{ Int}[\text{Csc}[e + f*x]^2, x], x] + \text{Simp}[(b*c + a*d) \text{ Int}[\text{Csc}[e + f*x], x], x]) /;$ FreeQ[{a, b, c, d, e, f}, x] && NeQ[$b*c - a*d, 0$] && NeQ[$b*c + a*d, 0$]
4403. $\text{Int}[\text{Sqrt}[\text{csc}(e_.) + (f_.)*(x_)]*(b_.) + (a_)]*(\text{csc}(e_.) + (f_.)*(x_))*(d_.) + (c_.)$, x_Symbol] $\rightarrow \text{Simp}[c \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[d \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Csc}[e + f*x], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && NeQ[$b*c - a*d, 0$] && EqQ[$a^2 - b^2, 0$]
4404. $\text{Int}[\text{Sqrt}[\text{csc}(e_.) + (f_.)*(x_)]*(b_.) + (a_)]*(\text{csc}(e_.) + (f_.)*(x_))*(d_.) + (c_.)$, x_Symbol] $\rightarrow \text{Simp}[a*c \text{ Int}[1/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Int}[\text{Csc}[e + f*x]*((b*c + a*d + b*d*\text{Csc}[e + f*x])/\text{Sqrt}[a + b*\text{Csc}[e + f*x]]), x] /;$ FreeQ[{a, b, c, d, e, f}, x] && NeQ[$b*c - a*d, 0$] && NeQ[$a^2 - b^2, 0$]
4405. $\text{Int}[(\text{csc}(e_.) + (f_.)*(x_))*(b_.) + (a_)]^{(m_)}*(\text{csc}(e_.) + (f_.)*(x_))*(d_.) + (c_.)$, x_Symbol] $\rightarrow \text{Simp}[(-b)*d*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m-1)}/(f*m)), x] + \text{Simp}[1/m \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m-1)}*\text{Simp}[a*c*m + (b*c*m + a*d*(2*m-1))*\text{Csc}[e + f*x], x], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && NeQ[$b*c - a*d, 0$] && GtQ[m, 1] && EqQ[$a^2 - b^2, 0$] && IntegerQ[2*m]
4406. $\text{Int}[(\text{csc}(e_.) + (f_.)*(x_))*(b_.) + (a_)]^{(m_)}*(\text{csc}(e_.) + (f_.)*(x_))*(d_.) + (c_.)$, x_Symbol] $\rightarrow \text{Simp}[(-b)*d*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m-1)}/(f*m)), x] + \text{Simp}[1/m \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m-2)}*\text{Simp}[a^2*c*m + (b^2*d*(m-1) + 2*a*b*c*m + a^2*d*m)*\text{Csc}[e + f*x] + b*(b*c*m + a*d*(2*m-1))*\text{Csc}[e + f*x]^2, x], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && NeQ[$b*c - a*d, 0$] && GtQ[m, 1] && NeQ[$a^2 - b^2, 0$] && IntegerQ[2*m]

4407. $\text{Int}[(\text{csc}[e] + (f)(x))(d) + (c)]/(\text{csc}[e] + (f)(x))(b) + (a), x_{\text{Symbol}}] \rightarrow \text{Simp}[c(x/a), x] - \text{Simp}[(b*c - a*d)/a \text{ Int}[\text{Csc}[e + f*x]/(a + b*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0]$
4408. $\text{Int}[(\text{csc}[e] + (f)(x))(d) + (c)]/\text{Sqrt}[\text{csc}[e] + (f)(x)]*(b) + (a), x_{\text{Symbol}}] \rightarrow \text{Simp}[c/a \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[(b*c - a*d)/a \text{ Int}[\text{Csc}[e + f*x]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$
4409. $\text{Int}[(\text{csc}[e] + (f)(x))(d) + (c)]/\text{Sqrt}[\text{csc}[e] + (f)(x)]*(b) + (a), x_{\text{Symbol}}] \rightarrow \text{Simp}[c \text{ Int}[1/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[d \text{ Int}[\text{Csc}[e + f*x]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0]$
4410. $\text{Int}[(\text{csc}[e] + (f)(x))(b) + (a))^m*(\text{csc}[e] + (f)(x))(d) + (c), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b*c - a*d)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(b*f*(2*m + 1))), x] + \text{Simp}[1/(a^2*(2*m + 1)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{m+1}*\text{Simp}[a*c*(2*m + 1) - (b*c - a*d)*(m + 1)*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{LtQ}[m, -1] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[2*m]$
4411. $\text{Int}[(\text{csc}[e] + (f)(x))(b) + (a))^m*(\text{csc}[e] + (f)(x))(d) + (c), x_{\text{Symbol}}] \rightarrow \text{Simp}[b*(b*c - a*d)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{m+1}/(a*f*(m + 1)*(a^2 - b^2))), x] + \text{Simp}[1/(a*(m + 1)*(a^2 - b^2)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{m+1}*\text{Simp}[c*(a^2 - b^2)*(m + 1) - (a*(b*c - a*d)*(m + 1))*\text{Csc}[e + f*x] + b*(b*c - a*d)*(m + 2))*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[2*m]$
4412. $\text{Int}[(\text{csc}[e] + (f)(x))(b) + (a))^m*(\text{csc}[e] + (f)(x))(d) + (c), x_{\text{Symbol}}] \rightarrow \text{Simp}[c \text{ Int}[(a + b*\text{Csc}[e + f*x])^m, x], x] + \text{Simp}[d \text{ Int}[(a + b*\text{Csc}[e + f*x])^m*\text{Csc}[e + f*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& !\text{IntegerQ}[2*m]$

4413. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]/(\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)), x_Symbol] \rightarrow \text{Simp}[1/c \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[d/c \text{ Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]])/(c + d*\text{Csc}[e + f*x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& (\text{EqQ}[a^2 - b^2, 0] \parallel \text{EqQ}[c^2 - d^2, 0])$
4414. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]/(\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)), x_Symbol] \rightarrow \text{Simp}[a/c \text{ Int}[1/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[(b*c - a*d)/c \text{ Int}[\text{Csc}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]])*(c + d*\text{Csc}[e + f*x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
4415. $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.))^{3/2}/(\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)), x_Symbol] \rightarrow \text{Simp}[a/c \text{ Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[(b*c - a*d)/c \text{ Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]])/(c + d*\text{Csc}[e + f*x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& (\text{EqQ}[a^2 - b^2, 0] \parallel \text{EqQ}[c^2 - d^2, 0])$
4416. $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.))^{3/2}/(\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)), x_Symbol] \rightarrow \text{Simp}[1/(c*d) \text{ Int}[(a^2*d + b^2*c*\text{Csc}[e + f*x])/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[(b*c - a*d)^2/(c*d) \text{ Int}[\text{Csc}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]])*(c + d*\text{Csc}[e + f*x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{NeQ}[c^2 - d^2, 0]$
4417. $\text{Int}[1/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]*(\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.))), x_Symbol] \rightarrow \text{Simp}[1/(c*(b*c - a*d)) \text{ Int}[(b*c - a*d - b*d*\text{Csc}[e + f*x])/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[d^2/(c*(b*c - a*d)) \text{ Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]])/(c + d*\text{Csc}[e + f*x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& (\text{EqQ}[a^2 - b^2, 0] \parallel \text{EqQ}[c^2 - d^2, 0])$
4418. $\text{Int}[1/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]*(\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.))), x_Symbol] \rightarrow \text{Simp}[1/c \text{ Int}[1/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[d/c \text{ Int}[\text{Csc}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]])*(c + d*\text{Csc}[e + f*x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{NeQ}[a^2 - b^2, 0]$

4419. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)], x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(\text{Sqrt}[c + d*\text{Csc}[e + f*x]]/\text{Cot}[e + f*x]) \text{Int}[\text{Cot}[e + f*x], x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[c^2 - d^2, 0]$
4420. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)], x_Symbol] \rightarrow \text{Simp}[c \text{Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/\text{Sqrt}[c + d*\text{Csc}[e + f*x]], x], x] + \text{Simp}[d \text{Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/\text{Sqrt}[c + d*\text{Csc}[e + f*x]]), x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
4421. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)], x_Symbol] \rightarrow \text{Simp}[1/c \text{Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]], x], x] - \text{Simp}[d/c \text{Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/\text{Sqrt}[c + d*\text{Csc}[e + f*x]]), x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[c^2 - d^2, 0]$
4422. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)], x_Symbol] \rightarrow \text{Simp}[-2*(a/f) \text{Subst}[\text{Int}[1/(1 + a*c*x^2), x], x, \text{Cot}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]])], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$
4423. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)], x_Symbol] \rightarrow \text{Simp}[a/c \text{Int}[\text{Sqrt}[c + d*\text{Csc}[e + f*x]]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[(b*c - a*d)/c \text{Int}[\text{Csc}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]]), x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[c^2 - d^2, 0]$
4424. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(b_.) + (a_.)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_)]*(d_.) + (c_.)], x_Symbol] \rightarrow \text{Simp}[2*((a + b*\text{Csc}[e + f*x])/(c*f*\text{Rt}[(a + b)/(c + d), 2]*\text{Cot}[e + f*x]))*\text{Sqrt}[(b*c - a*d)*((1 + \text{Csc}[e + f*x])/(c - d)*(a + b*\text{Csc}[e + f*x])))]*\text{Sqrt}[(-(b*c - a*d))*((1 - \text{Csc}[e +$

- $$\frac{f*x}{(c+d)*(a+b*\text{Csc}[e+f*x])} * \text{EllipticPi}[a*((c+d)/(c*(a+b)))], \text{ArcSin}[\text{Rt}[(a+b)/(c+d), 2]*(\text{Sqrt}[c+d*\text{Csc}[e+f*x]]/\text{Sqrt}[a+b*\text{Csc}[e+f*x]])], (a-b)*((c+d)/((a+b)*(c-d))), x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$$
4425. $\text{Int}[1/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.)]), x_Symbol] \rightarrow \text{Simp}[\text{Cot}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]]) \ \text{Int}[1/\text{Cot}[e + f*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[c^2 - d^2, 0]$
4426. $\text{Int}[1/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.)]), x_Symbol] \rightarrow \text{Simp}[1/a \ \text{Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/\text{Sqrt}[c + d*\text{Csc}[e + f*x]], x], x] - \text{Simp}[b/a \ \text{Int}[\text{Csc}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
4427. $\text{Int}[\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]/(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^{3/2}, x_Symbol] \rightarrow \text{Simp}[1/c \ \text{Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/\text{Sqrt}[c + d*\text{Csc}[e + f*x]], x], x] - \text{Simp}[d/c \ \text{Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/(c + d*\text{Csc}[e + f*x]))^{3/2}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$
4428. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[a^2*(\text{Cot}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[a - b*\text{Csc}[e + f*x]])) \ \text{Subst}[\text{Int}[(a + b*x)^{(m - 1/2)}*((c + d*x)^n/(x*\text{Sqrt}[a - b*x])), x], x, \text{Csc}[e + f*x]], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0] \ \&\& \ \text{IntegerQ}[m - 1/2]$
4429. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Int}[(b + a*\text{Sin}[e + f*x])^m*((d + c*\text{Sin}[e + f*x])^n/\text{Sin}[e + f*x]^{(m+n)}), x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{LeQ}[-2, m + n, 0]$

4430. $\text{Int}[(\text{csc}[e_.] + (f_.)(x_.))(b_.) + (a_.)]^{(m_.)}(\text{csc}[e_.] + (f_.)(x_.))(\text{d_.} + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[d + c\text{Sin}[e + f*x]](\text{Sqrt}[a + b\text{Csc}[e + f*x]]/(\text{Sqrt}[b + a\text{Sin}[e + f*x]]*\text{Sqrt}[c + d\text{Csc}[e + f*x]])) \text{Int}[(b + a\text{Sin}[e + f*x])^m*((d + c\text{Sin}[e + f*x])^n/\text{Sin}[e + f*x]^{(m+n)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{IntegerQ}[m + 1/2] \&\& \text{IntegerQ}[n + 1/2] \&\& \text{LeQ}[-2, m + n, 0]$
4431. $\text{Int}[(\text{csc}[e_.] + (f_.)(x_.))(b_.) + (a_.)]^{(m_.)}(\text{csc}[e_.] + (f_.)(x_.))(\text{d_.} + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sin}[e + f*x]^{(m+n)}(a + b\text{Csc}[e + f*x])^m*((c + d\text{Csc}[e + f*x])^n/((b + a\text{Sin}[e + f*x])^m*(d + c\text{Sin}[e + f*x])^n)) \text{Int}[(b + a\text{Sin}[e + f*x])^m*((d + c\text{Sin}[e + f*x])^n/\text{Sin}[e + f*x]^{\text{Simplify}[m+n]})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& \text{NeQ}[b*c - a*d, 0] \&\& \text{EqQ}[m + n, 0] \&\& \text{!IntegerQ}[2*m]$
4432. $\text{Int}[(\text{csc}[e_.] + (f_.)(x_.))(b_.) + (a_.)]^{(m_.)}(\text{csc}[e_.] + (f_.)(x_.))(\text{d_.} + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(a + b\text{csc}[e + f*x])^m, (c + d\text{csc}[e + f*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& \text{IGtQ}[n, 0]$
4433. $\text{Int}[(\text{csc}[e_.] + (f_.)(x_.))(b_.) + (a_.)]^{(m_.)}(\text{csc}[e_.] + (f_.)(x_.))(\text{d_.} + (c_.))^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(a + b\text{Csc}[e + f*x])^m*(c + d\text{Csc}[e + f*x])^n, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\}$
4434. $\text{Int}[(\text{d_.}/\text{sec}[e_.] + (f_.)(x_.))]^{(n_.)}((a_.) + (b_.)\text{sec}[e_.] + (f_.)(x_.))]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[d^m \text{Int}[(b + a\text{Cos}[e + f*x])^m*(d\text{Cos}[e + f*x])^{(n-m)}], x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x\} \&\& \text{!IntegerQ}[n] \&\& \text{IntegerQ}[m]$
4435. $\text{Int}[(a_.) + \text{csc}[e_.] + (f_.)(x_.)]^{(m_.)}(\text{d_.}/\text{csc}[e_.] + (f_.)(x_.))]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[d^m \text{Int}[(b + a\text{Sin}[e + f*x])^m*(d\text{Sin}[e + f*x])^{(n-m)}], x], x] /; \text{FreeQ}\{a, b, d, e, f, n\}, x\} \&\& \text{!IntegerQ}[n] \&\& \text{IntegerQ}[m]$
4436. $\text{Int}[(c_.)*((d_.)\text{sec}[e_.] + (f_.)(x_.))]^{(p_.)}^{(n_.)}((a_.) + (b_.)\text{sec}[e_.] + (f_.)(x_.))]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[n]}*((c*(d\text{Sec}[e + f*x])^p)^{\text{FracPart}[n]}/(d\text{Sec}[e + f*x])^{(p*\text{FracPart}[n])}) \text{Int}[(a + b\text{Sec}[e + f*x])^m*(d\text{Sec}[e + f*x])^{(n*p)}], x], x] /; \text{FreeQ}\{a, b, c,$

- d, e, f, m, n, p}, x] && !IntegerQ[n]
4437. $\text{Int}[\left((a_{\cdot}) + \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]\right)(b_{\cdot})^m \left((c_{\cdot}) \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] + (d_{\cdot})\right)^p \left(n\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[c^{\text{IntPart}[n]} \left(\csc[e + f x]\right)^p \text{FracPart}[n] / (d \csc[e + f x])^{p \text{FracPart}[n]} \text{Int}[(a + b \cos[e + f x])^m (d \cos[e + f x])^{n p}], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p\}, x] \&\& !\text{IntegerQ}[n]$
4438. $\text{Int}[\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (b_{\cdot}) + (a_{\cdot})\right)^m \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (d_{\cdot}) + (c_{\cdot})\right)^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[b \cot[e + f x] (a + b \csc[e + f x])^m \left((c + d \csc[e + f x])^n / (a f (2 m + 1))\right), x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x] \&\& \text{EqQ}[b c + a d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n + 1, 0] \&\& \text{NeQ}[2 m + 1, 0]$
4439. $\text{Int}[\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (b_{\cdot}) + (a_{\cdot})\right)^m \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (d_{\cdot}) + (c_{\cdot})\right)^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[b \cot[e + f x] (a + b \csc[e + f x])^m \left((c + d \csc[e + f x])^n / (a f (2 m + 1))\right), x] + \text{Simp}[(m + n + 1) / (a (2 m + 1)) \text{Int}[\csc[e + f x] (a + b \csc[e + f x])^{m + 1} (c + d \csc[e + f x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x] \&\& \text{EqQ}[b c + a d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{ILtQ}[m + n + 1, 0] \&\& \text{NeQ}[2 m + 1, 0] \&\& !\text{LtQ}[n, 0] \&\& !(\text{IGtQ}[n + 1/2, 0] \&\& \text{LtQ}[n + 1/2, -(m + n)])$
4440. $\text{Int}[(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \sqrt{\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (d_{\cdot}) + (c_{\cdot})}) / \sqrt{\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (b_{\cdot}) + (a_{\cdot})}], x_{\text{Symbol}}] \rightarrow \text{Simp}[a c \text{Log}[1 + (b/a) \csc[e + f x]] (\cot[e + f x] / (b f \sqrt{a + b \csc[e + f x]} \sqrt{c + d \csc[e + f x]})), x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[b c + a d, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$
4441. $\text{Int}[\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (b_{\cdot}) + (a_{\cdot})\right)^m \sqrt{\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (d_{\cdot}) + (c_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[2 a c \cot[e + f x] \left((a + b \csc[e + f x])^m / (b f (2 m + 1) \sqrt{c + d \csc[e + f x]})\right), x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[b c + a d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[m, -2^{(-1)}]$
4442. $\text{Int}[\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (b_{\cdot}) + (a_{\cdot})\right)^m \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] (d_{\cdot}) + (c_{\cdot})\right)^n, x_{\text{Symbol}}] \rightarrow \text{Simp}[2 a c$

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c*Cot[e + f*x]*(a + b*Csc[e + f*x])^m*((c + d*Csc[e + f*x])^(n - 1)/(b
f(2*m + 1))), x] - Simp[d*((2*n - 1)/(b*(2*m + 1))) Int[Csc[e + f*
x]*(a + b*Csc[e + f*x])^(m + 1)*(c + d*Csc[e + f*x])^(n - 1), x], x] /
; FreeQ[{a, b, c, d, e, f}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2,
0] && IGtQ[n - 1/2, 0] && LtQ[m, -2^(-1)]

4443. Int[csc[(e_.) + (f_.)*(x_.)]*(csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^(m_
.)*(csc[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^(n_.), x_Symbol] :> Simp[(-d)
*Cot[e + f*x]*(a + b*Csc[e + f*x])^m*((c + d*Csc[e + f*x])^(n - 1)/(f*
(m + n))), x] + Simp[c*((2*n - 1)/(m + n)) Int[Csc[e + f*x]*(a + b*C
sc[e + f*x])^m*(c + d*Csc[e + f*x])^(n - 1), x], x] /; FreeQ[{a, b, c,
d, e, f, m}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && IGtQ[n -
1/2, 0] && !LtQ[m, -2^(-1)] && !(IGtQ[m - 1/2, 0] && LtQ[m, n])

4444. Int[(csc[(e_.) + (f_.)*(x_.)]*(csc[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^(n
.)]/Sqrt[csc[(e.) + (f_.)*(x_.)]*(b_.) + (a_.)], x_Symbol] :> Simp[-2*d
*Cot[e + f*x]*((c + d*Csc[e + f*x])^(n - 1)/(f*(2*n - 1)*Sqrt[a + b*C
sc[e + f*x]])), x] + Simp[2*c*((2*n - 1)/(2*n - 1)) Int[Csc[e + f*x]
*((c + d*Csc[e + f*x])^(n - 1)/Sqrt[a + b*Csc[e + f*x]]), x], x] /; Fr
eeQ[{a, b, c, d, e, f}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] &
& IGtQ[n, 0]

4445. Int[csc[(e_.) + (f_.)*(x_.)]*(csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^(m_
.)*(csc[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^(n_.), x_Symbol] :> Simp[2*a*
c*Cot[e + f*x]*(a + b*Csc[e + f*x])^m*((c + d*Csc[e + f*x])^(n - 1)/(b
f(2*m + 1))), x] - Simp[d*((2*n - 1)/(b*(2*m + 1))) Int[Csc[e + f*
x]*(a + b*Csc[e + f*x])^(m + 1)*(c + d*Csc[e + f*x])^(n - 1), x], x] /
; FreeQ[{a, b, c, d, e, f}, x] && EqQ[b*c + a*d, 0] && EqQ[a^2 - b^2,
0] && IGtQ[n, 0] && LtQ[m, -2^(-1)] && IntegerQ[2*m]

4446. Int[csc[(e_.) + (f_.)*(x_.)]*(csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^(m_
.)*(csc[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))^(n_.), x_Symbol] :> Simp[((-
a)*c)^m Int[ExpandTrig[csc[e + f*x]*cot[e + f*x]^(2*m), (c + d*csc[e
+ f*x])^(n - m), x], x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && EqQ
[b*c + a*d, 0] && EqQ[a^2 - b^2, 0] && IntegersQ[m, n] && GeQ[n - m, 0
] && GtQ[m*n, 0]

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4447.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(d_.) + (c_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[((-a)*c)^{(m + 1/2)}*(\text{Cot}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]])) \text{Int}[\text{Csc}[e + f*x]*\text{Cot}[e + f*x]^{(2*m)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m + 1/2]$
4448.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(d_.) + (c_.))^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[b*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^m*((c + d*\text{Csc}[e + f*x])^n/(a*f*(2*m + 1))), x] + \text{Simp}[(m + n + 1)/(a*(2*m + 1)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(c + d*\text{Csc}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& ((\text{ILtQ}[m, 0] \&\& \text{ILtQ}[n - 1/2, 0]) || (\text{ILtQ}[m - 1/2, 0] \&\& \text{ILtQ}[n - 1/2, 0] \&\& \text{LtQ}[m, n]))$
4449.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(d_.) + (c_.))^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[a*c*(\text{Cot}[e + f*x]/(f*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]])) \text{Subst}[\text{Int}[(a + b*x)^{(m - 1/2)}*(c + d*x)^{(n - 1/2)}, x], x, \text{Csc}[e + f*x]], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$
4450.  $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_.)]*(g_.))^{(p_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(d_.) + (c_.))^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[((-a)*c)^m \text{Int}[\text{ExpandTrig}[(g*\text{csc}[e + f*x])^p*\text{cot}[e + f*x]^{(2*m)}, (c + d*\text{csc}[e + f*x])^{(n - m)}, x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegersQ}[m, n] \&\& \text{GeQ}[n - m, 0] \&\& \text{GtQ}[m*n, 0]$
4451.  $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_.)]*(g_.))^{(p_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(d_.) + (c_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[((-a)*c)^{(m + 1/2)}*(\text{Cot}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]])) \text{Int}[(g*\text{Csc}[e + f*x])^p*\text{Cot}[e + f*x]^{(2*m)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, p\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m + 1/2]$

4452.  $\text{Int}[(\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (g_{\cdot})^{(p_{\cdot})} \cdot (\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (b_{\cdot}) + (a_{\cdot}))^{(m_{\cdot})} \cdot (\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (d_{\cdot}) + (c_{\cdot}))^{(n_{\cdot})}, x_{\text{Symbol}}]$   
 $\text{:> Simp}[a \cdot c \cdot g \cdot (\text{Cot}[e + f \cdot x]) / (f \cdot \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]] \cdot \text{Sqrt}[c + d \cdot \text{Csc}[e + f \cdot x]])] \text{ Subst}[\text{Int}[(g \cdot x)^{(p-1)} \cdot (a + b \cdot x)^{(m-1/2)} \cdot (c + d \cdot x)^{(n-1/2)}, x], x, \text{Csc}[e + f \cdot x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \ \&\& \ \text{EqQ}[b \cdot c + a \cdot d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
4453.  $\text{Int}[(\text{Sqrt}[\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (g_{\cdot}) \cdot \text{Sqrt}[\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (b_{\cdot}) + (a_{\cdot})]) / (\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (d_{\cdot}) + (c_{\cdot})], x_{\text{Symbol}}]$   
 $\text{:> Simp}[-2 \cdot b \cdot (g/f) \text{ Subst}[\text{Int}[1/(b \cdot c + a \cdot d - c \cdot g \cdot x^2), x], x, b \cdot (\text{Cot}[e + f \cdot x]) / (\text{Sqrt}[g \cdot \text{Csc}[e + f \cdot x]] \cdot \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]])], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
4454.  $\text{Int}[(\text{Sqrt}[\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (g_{\cdot}) \cdot \text{Sqrt}[\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (b_{\cdot}) + (a_{\cdot})]) / (\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (d_{\cdot}) + (c_{\cdot})], x_{\text{Symbol}}]$   
 $\text{:> Simp}[a/c \text{ Int}[\text{Sqrt}[g \cdot \text{Csc}[e + f \cdot x]] / \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]], x], x] + \text{Simp}[(b \cdot c - a \cdot d) / (c \cdot g) \text{ Int}[(g \cdot \text{Csc}[e + f \cdot x])^{(3/2)} / (\text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]]) \cdot (c + d \cdot \text{Csc}[e + f \cdot x])], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
4455.  $\text{Int}[(\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot \text{Sqrt}[\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (b_{\cdot}) + (a_{\cdot})] / (\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (d_{\cdot}) + (c_{\cdot})], x_{\text{Symbol}}]$   
 $\text{:> Simp}[-2 \cdot (b/f) \text{ Subst}[\text{Int}[1/(b \cdot c + a \cdot d + d \cdot x^2), x], x, b \cdot (\text{Cot}[e + f \cdot x]) / \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]]], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
4456.  $\text{Int}[(\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot \text{Sqrt}[\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (b_{\cdot}) + (a_{\cdot})] / (\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (d_{\cdot}) + (c_{\cdot})], x_{\text{Symbol}}]$   
 $\text{:> Simp}[(-\text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]]) \cdot (\text{Sqrt}[c / (c + d \cdot \text{Csc}[e + f \cdot x])] / (d \cdot f \cdot \text{Sqrt}[c \cdot d \cdot ((a + b \cdot \text{Csc}[e + f \cdot x]) / ((b \cdot c + a \cdot d) \cdot (c + d \cdot \text{Csc}[e + f \cdot x])))])) \cdot \text{EllipticE}[\text{ArcSin}[c \cdot (\text{Cot}[e + f \cdot x]) / (c + d \cdot \text{Csc}[e + f \cdot x])], -(b \cdot c - a \cdot d) / (b \cdot c + a \cdot d)], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b \cdot c - a \cdot d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{EqQ}[c^2 - d^2, 0]$
4457.  $\text{Int}[(\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot \text{Sqrt}[\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (b_{\cdot}) + (a_{\cdot})] / (\text{csc}[(e_{\cdot}) + (f_{\cdot}) \cdot (x_{\cdot})]) \cdot (d_{\cdot}) + (c_{\cdot})], x_{\text{Symbol}}]$   
 $\text{:> Simp}[b/d \text{ Int}[\text{Csc}[e + f \cdot x] / \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]], x], x] - \text{Simp}[(b \cdot c - a \cdot d) / d$

- $\text{Int}[\text{Csc}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(c + d*\text{Csc}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$
4458.  $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(g_.))^{3/2}*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]/(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.)), x\_Symbol] \text{:>} \text{Simp}[g/d \ \text{Int}[\text{Sqrt}[g*\text{Csc}[e + f*x]]*\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[c*(g/d) \ \text{Int}[\text{Sqrt}[g*\text{Csc}[e + f*x]]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/(c + d*\text{Csc}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
4459.  $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(g_.))^{3/2}*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]/(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.)), x\_Symbol] \text{:>} \text{Simp}[b/d \ \text{Int}[(g*\text{Csc}[e + f*x])^{3/2}/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[(b*c - a*d)/d \ \text{Int}[(g*\text{Csc}[e + f*x])^{3/2}/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(c + d*\text{Csc}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
4460.  $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))), x\_Symbol] \text{:>} \text{Simp}[b/(b*c - a*d) \ \text{Int}[\text{Csc}[e + f*x]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[d/(b*c - a*d) \ \text{Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/(c + d*\text{Csc}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ (\text{EqQ}[a^2 - b^2, 0] \ || \ \text{EqQ}[c^2 - d^2, 0])$
4461.  $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))), x\_Symbol] \text{:>} \text{Simp}[-2*(\text{Cot}[e + f*x]/(f*(c + d)*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[-\text{Cot}[e + f*x]^2]))*\text{Sqrt}[(a + b*\text{Csc}[e + f*x])/(a + b)]*\text{EllipticPi}[2*(d/(c + d)), \text{ArcSin}[\text{Sqrt}[1 - \text{Csc}[e + f*x]]/\text{Sqrt}[2]], 2*(b/(a + b))], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{NeQ}[c^2 - d^2, 0]$
4462.  $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_.)]*(g_.))^{3/2}/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.) + (c_.))), x\_Symbol] \text{:>} \text{Simp}[(-a)*(g/(b*c - a*d)) \ \text{Int}[\text{Sqrt}[g*\text{Csc}[e + f*x]]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[c*(g/(b*c - a*d)) \ \text{Int}[\text{Sqrt}[g*\text{Csc}[e + f*x]]*(S$

- $\text{qrt}[a + b*\text{Csc}[e + f*x]]/(c + d*\text{Csc}[e + f*x]), x, x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
4463.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(g\_.)^{(3/2)})/(\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_))], x\_Symbol] \rightarrow \text{Simp}[g*\text{Sqrt}[g*\text{Csc}[e + f*x]]*(\text{Sqrt}[b + a*\text{Sin}[e + f*x]]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]]) \ \text{Int}[1/(\text{Sqrt}[b + a*\text{Sin}[e + f*x]]*(d + c*\text{Sin}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
4464.  $\text{Int}[\text{csc}[(e\_.) + (f\_.)*(x\_)]^2/(\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_))], x\_Symbol] \rightarrow \text{Simp}[-a/(b*c - a*d) \ \text{Int}[\text{Csc}[e + f*x]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[c/(b*c - a*d) \ \text{Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/(c + d*\text{Csc}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \& \ (\text{EqQ}[a^2 - b^2, 0] \ || \ \text{EqQ}[c^2 - d^2, 0])$
4465.  $\text{Int}[\text{csc}[(e\_.) + (f\_.)*(x\_)]^2/(\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_))], x\_Symbol] \rightarrow \text{Simp}[1/d \ \text{Int}[\text{Csc}[e + f*x]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[c/d \ \text{Int}[\text{Csc}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(c + d*\text{Csc}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \& \ \text{NeQ}[c^2 - d^2, 0]$
4466.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(g\_.)^{(5/2)})/(\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_))], x\_Symbol] \rightarrow \text{Simp}[(-c^2)*(g^2/(d*(b*c - a*d))) \ \text{Int}[\text{Sqrt}[g*\text{Csc}[e + f*x]]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/(c + d*\text{Csc}[e + f*x])), x], x] + \text{Simp}[g^2/(d*(b*c - a*d)) \ \text{Int}[\text{Sqrt}[g*\text{Csc}[e + f*x]]*((a*c + (b*c - a*d)*\text{Csc}[e + f*x])/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
4467.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(g\_.)^{(5/2)})/(\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_))], x\_Symbol] \rightarrow \text{Simp}[g/d \ \text{Int}[(g*\text{Csc}[e + f*x])^{(3/2)}/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] - \text{Simp}[c*(g/d) \ \text{Int}[(g*\text{Csc}[e + f*x])^{(3/2)}/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(c + d*\text{Csc}[e + f*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \ \&\& \ \text{NeQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$



$eQ[b*c - a*d, 0] \ \&\& \ NeQ[a^2 - b^2, 0]$

4468.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)])/\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_)], x\_Symbol] \rightarrow \text{Simp}[-2*(b/f) \ \text{Subst}[\text{Int}[1/(1 - b*d*x^2), x], x, \text{Cot}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]])], x] \ /; \ \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ NeQ[b*c - a*d, 0] \ \&\& \ EqQ[a^2 - b^2, 0] \ \&\& \ NeQ[c^2 - d^2, 0]$

4469.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)])/\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_)], x\_Symbol] \rightarrow \text{Simp}[-(b*c - a*d)/d \ \text{Int}[\text{Csc}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]]), x], x] + \text{Simp}[b/d \ \text{Int}[\text{Csc}[e + f*x]*(\text{Sqrt}[c + d*\text{Csc}[e + f*x]])/\text{Sqrt}[a + b*\text{Csc}[e + f*x]]), x], x] \ /; \ \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ NeQ[b*c - a*d, 0] \ \&\& \ NeQ[a^2 - b^2, 0] \ \&\& \ EqQ[c^2 - d^2, 0]$

4470.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)])/\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_)], x\_Symbol] \rightarrow \text{Simp}[-2*((a + b*\text{Csc}[e + f*x])/(d*f*\text{Sqrt}[(a + b)/(c + d)]*\text{Cot}[e + f*x]))*\text{Sqrt}[(-(b*c - a*d))*((1 - \text{Csc}[e + f*x])/((c + d)*(a + b*\text{Csc}[e + f*x])))]*\text{Sqrt}[(b*c - a*d)*((1 + \text{Csc}[e + f*x])/((c - d)*(a + b*\text{Csc}[e + f*x])))]*\text{EllipticPi}[b*((c + d)/(d*(a + b))), \text{ArcSin}[\text{Sqrt}[(a + b)/(c + d)]*(\text{Sqrt}[c + d*\text{Csc}[e + f*x]]/\text{Sqrt}[a + b*\text{Csc}[e + f*x]])], (a - b)*((c + d)/((a + b)*(c - d)))]], x] \ /; \ \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ NeQ[b*c - a*d, 0] \ \&\& \ NeQ[a^2 - b^2, 0] \ \&\& \ NeQ[c^2 - d^2, 0]$

4471.  $\text{Int}[\text{csc}[(e\_.) + (f\_.)*(x\_)]/(\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_)]), x\_Symbol] \rightarrow \text{Simp}[-2*(a/(b*f)) \ \text{Subst}[\text{Int}[1/(2 + (a*c - b*d)*x^2), x], x, \text{Cot}[e + f*x]/(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*\text{Sqrt}[c + d*\text{Csc}[e + f*x]])], x] \ /; \ \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ NeQ[b*c - a*d, 0] \ \&\& \ EqQ[a^2 - b^2, 0] \ \&\& \ NeQ[c^2 - d^2, 0]$

4472.  $\text{Int}[\text{csc}[(e\_.) + (f\_.)*(x\_)]/(\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.) + (c\_)]), x\_Symbol] \rightarrow \text{Simp}[-2*((c + d*\text{Csc}[e + f*x])/(f*(b*c - a*d)*\text{Rt}[(c + d)/(a + b), 2]*\text{Cot}[e + f*x]))*\text{Sqrt}[(b*c - a*d)*((1 - \text{Csc}[e + f*x])/((a + b)*(c + d*\text{Csc}[e + f*x])))]*\text{Sqrt}[(-(b*c - a*d))*((1 + \text{Csc}[e + f*x])/((a - b)*(c + d*\text{Csc}[e + f*x])))]]$

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])))*EllipticF[ArcSin[Rt[(c + d)/(a + b), 2]*(Sqrt[a + b*Csc[e + f*x]
]/Sqrt[c + d*Csc[e + f*x]]], (a + b)*((c - d)/((a - b)*(c + d))), x]
/; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2
, 0] && NeQ[c^2 - d^2, 0]

4473. Int[csc[(e_.) + (f_.)*(x_)]^2/(Sqrt[csc[(e_.) + (f_.)*(x_)]*(b_.) + (a
_)]*Sqrt[csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_)]), x_Symbol] := Simp[-a/
b Int[Csc[e + f*x]/(Sqrt[a + b*Csc[e + f*x]]*Sqrt[c + d*Csc[e + f*x]
]), x], x] + Simp[1/b Int[Csc[e + f*x]*(Sqrt[a + b*Csc[e + f*x]]/Sqr
t[c + d*Csc[e + f*x]]), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[
b*c - a*d, 0]

4474. Int[(csc[(e_.) + (f_.)*(x_)]*Sqrt[csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_
)])/(csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_))^(3/2), x_Symbol] := Simp[(a
- b)/(c - d) Int[Csc[e + f*x]/(Sqrt[a + b*Csc[e + f*x]]*Sqrt[c + d*C
sc[e + f*x]]), x], x] + Simp[(b*c - a*d)/(c - d) Int[Csc[e + f*x]*((
1 + Csc[e + f*x])/(Sqrt[a + b*Csc[e + f*x]]*(c + d*Csc[e + f*x]))^(3/2)
)], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && NeQ[b*c - a*d, 0] && NeQ
[a^2 - b^2, 0] && NeQ[c^2 - d^2, 0]

4475. Int[(csc[(e_.) + (f_.)*(x_)]*(g_.))^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(b_
.) + (a_))^(m)*csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_))^(n), x_Symbol]
:= Simp[a^2*g*(Cot[e + f*x]/(f*Sqrt[a + b*Csc[e + f*x]]*Sqrt[a - b*Cs
c[e + f*x]])) Subst[Int[(g*x)^(p - 1)*(a + b*x)^(m - 1/2)*((c + d*x)
^n/Sqrt[a - b*x]), x], x, Csc[e + f*x]], x] /; FreeQ[{a, b, c, d, e, f
, g, m, n, p}, x] && NeQ[b*c - a*d, 0] && EqQ[a^2 - b^2, 0] && NeQ[c^2
- d^2, 0] && (EqQ[p, 1] || IntegerQ[m - 1/2])

4476. Int[(csc[(e_.) + (f_.)*(x_)]*(g_.))^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(b_
.) + (a_))^(m)*csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_))^(n), x_Symbol]
:= Simp[1/g^(m + n) Int[(g*Csc[e + f*x])^(m + n + p)*(b + a*Sin[e +
f*x])^m*(d + c*Sin[e + f*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g,
p}, x] && NeQ[b*c - a*d, 0] && IntegerQ[m] && IntegerQ[n]

4477. Int[(csc[(e_.) + (f_.)*(x_)]*(g_.))^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(b_
.) + (a_))^(m)*csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_))^(n), x_Symbol]
:= Simp[(g*Csc[e + f*x])^(m + p)*((c + d*Csc[e + f*x])^n/(g^m*(d + c

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- $\text{Sin}[e + f*x]^n$) Int[(b + a*Sin[e + f*x])^m*(d + c*Sin[e + f*x])ⁿ, x], x] /; FreeQ[{a, b, c, d, e, f, g, n, p}, x] && NeQ[b*c - a*d, 0] && EqQ[m + n + p, 0] && IntegerQ[m]
4478. Int[(csc[(e_.) + (f_.)*(x_)]*(g_.))^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_.)*(csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_.))^(n_.), x_Symbol]

 :> Simp[(g*Csc[e + f*x])^p*(a + b*Csc[e + f*x])^m*(c + d*Csc[e + f*x])ⁿ/((b + a*Sin[e + f*x])^m*(d + c*Sin[e + f*x])ⁿ) Int[(b + a*Sin[e + f*x])^m*(d + c*Sin[e + f*x])ⁿ, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && NeQ[b*c - a*d, 0] && EqQ[m + n + p, 0] && !IntegerQ[m]
4479. Int[csc[(e_.) + (f_.)*(x_)]^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_.)*(csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_.))^(n_.), x_Symbol]

 :> Simp[Sqrt[d + c*Sin[e + f*x]]*(Sqrt[a + b*Csc[e + f*x]])/(Sqrt[b + a*Sin[e + f*x]]*Sqrt[c + d*Csc[e + f*x]]) Int[(b + a*Sin[e + f*x])^m*(d + c*Sin[e + f*x])ⁿ/Sin[e + f*x]^(m + n + p), x], x] /; FreeQ[{a, b, c, d, e, f, m, n}, x] && NeQ[b*c - a*d, 0] && IntegerQ[m - 1/2] && IntegerQ[n - 1/2] && IntegerQ[p] && LeQ[-2, m + n + p, -1]
4480. Int[(csc[(e_.) + (f_.)*(x_)]*(g_.))^(p_.)*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_.)*(csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_.))^(n_.), x_Symbol]

 :> Int[ExpandTrig[(g*csc[e + f*x])^p*(a + b*csc[e + f*x])^m*(c + d*csc[e + f*x])ⁿ, x], x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && NeQ[b*c - a*d, 0] && (IntegersQ[m, n] || IntegersQ[m, p] || IntegersQ[n, p])
4481. Int[((a_.) + csc[(e_.) + (f_.)*(x_)]*(b_.))^(m_.)*(c_.) + csc[(e_.) + (f_.)*(x_)]*(d_.))^(n_.)*(csc[(e_.) + (f_.)*(x_)]*(g_.))^(p_.), x_Symbol]

 :> Unintegrable[(g*Csc[e + f*x])^p*(a + b*Csc[e + f*x])^m*(c + d*Csc[e + f*x])ⁿ, x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x]
4482. Int[(sec[(e_.) + (f_.)*(x_)]*((A_.) + (B_.)*sec[(e_.) + (f_.)*(x_)]))/(Sqrt[(a_.) + (b_.)*sec[(e_.) + (f_.)*(x_)]*(c_.) + (d_.)*sec[(e_.) + (f_.)*(x_)]^(3/2)), x_Symbol]

 :> Simp[2*A*(1 + Sec[e + f*x])*(Sqrt[(b*c - a*d)*((1 - Sec[e + f*x])/((a + b)*(c + d*Sec[e + f*x]))])/(f*(b*c - a*d)*Rt[(c + d)/(a + b), 2]*Tan[e + f*x]*Sqrt[(-b*c - a*d)*((1 + S

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ec[e + f*x])/((a - b)*(c + d*Sec[e + f*x]))))*EllipticE[ArcSin[Rt[(c
+ d)/(a + b), 2]*(Sqrt[a + b*Sec[e + f*x]]/Sqrt[c + d*Sec[e + f*x]])]
, (a + b)*((c - d)/((a - b)*(c + d))), x] /; FreeQ[{a, b, c, d, e, f,
A, B}, x] && NeQ[b*c - a*d, 0] && NeQ[a^2 - b^2, 0] && NeQ[c^2 - d^2,
0] && EqQ[A, B]

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4483.  $\text{Int}[(\text{csc}[e] + f(x))(\text{csc}[e] + f(x))(B) + (A))/(\text{Sqrt}[\text{csc}[e] + f(x)(b) + (a)](\text{csc}[e] + f(x))(d) + (c))^{3/2}], x_{\text{Symbol}}] \rightarrow \text{Simp}[-2A(1 + \text{Csc}[e + f*x])(\text{Sqrt}[(b*c - a*d)((1 - \text{Csc}[e + f*x])/((a + b)(c + d*\text{Csc}[e + f*x]))])/(f(b*c - a*d)*\text{Rt}[(c + d)/(a + b), 2]*\text{Cot}[e + f*x]*\text{Sqrt}[-(b*c - a*d)((1 + \text{Csc}[e + f*x])/((a - b)(c + d*\text{Csc}[e + f*x]))])])*\text{EllipticE}[\text{ArcSin}[\text{Rt}[(c + d)/(a + b), 2]*(\text{Sqrt}[a + b*\text{Csc}[e + f*x]]/\text{Sqrt}[c + d*\text{Csc}[e + f*x]])], (a + b)*((c - d)/((a - b)(c + d))), x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\& \text{NeQ}\{b*c - a*d, 0\} \&\& \text{NeQ}\{a^2 - b^2, 0\} \&\& \text{NeQ}\{c^2 - d^2, 0\} \&\& \text{EqQ}\{A, B\}$
4484.  $\text{Int}[(\text{csc}[e] + f(x))(d)^n(\text{csc}[e] + f(x))(b) + (a))(\text{csc}[e] + f(x))(B) + (A)], x_{\text{Symbol}}] \rightarrow \text{Simp}[A*a*\text{Cot}[e + f*x)((d*\text{Csc}[e + f*x])^n/(f^n)), x] + \text{Simp}[1/(d^n) \text{Int}[(d*\text{Csc}[e + f*x])^{n+1}*\text{Simp}[n*(B*a + A*b) + (B*b*n + A*a*(n+1))*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B\}, x] \&\& \text{NeQ}\{A*b - a*B, 0\} \&\& \text{LeQ}\{n, -1\}$
4485.  $\text{Int}[(\text{csc}[e] + f(x))(d)^n(\text{csc}[e] + f(x))(b) + (a))(\text{csc}[e] + f(x))(B) + (A)], x_{\text{Symbol}}] \rightarrow \text{Simp}[( -b)*B*\text{Cot}[e + f*x)((d*\text{Csc}[e + f*x])^n/(f^{n+1})), x] + \text{Simp}[1/(n+1) \text{Int}[(d*\text{Csc}[e + f*x])^n*\text{Simp}[A*a*(n+1) + B*b*n + (A*b + B*a)*(n+1)*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B\}, x] \&\& \text{NeQ}\{A*b - a*B, 0\} \&\& \text{!LeQ}\{n, -1\}$
4486.  $\text{Int}[(\text{csc}[e] + f(x))(csc[e] + f(x))(B) + (A))/(\text{csc}[e] + f(x))(b) + (a)], x_{\text{Symbol}}] \rightarrow \text{Simp}[B/b \text{Int}[\text{Csc}[e + f*x], x], x] + \text{Simp}[(A*b - a*B)/b \text{Int}[\text{Csc}[e + f*x]/(a + b*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, e, f, A, B\}, x] \&\& \text{NeQ}\{A*b - a*B, 0\}$

4487.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(-B)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(f*(m + 1))), x] /; \text{FreeQ}\{a, b, A, B, e, f, m\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[a*B*m + A*b*(m + 1), 0]$
4488.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(A*b - a*B)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(a*f*(2*m + 1))), x] + \text{Simp}[(a*B*m + A*b*(m + 1))/(a*b*(2*m + 1)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}\{a, b, A, B, e, f\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[a*B*m + A*b*(m + 1), 0] \&\& \text{LtQ}[m, -2^{(-1)}]$
4489.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(-B)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(f*(m + 1))), x] + \text{Simp}[(a*B*m + A*b*(m + 1))/(b*(m + 1)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^m, x], x] /; \text{FreeQ}\{a, b, A, B, e, f, m\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[a*B*m + A*b*(m + 1), 0] \&\& !\text{LtQ}[m, -2^{(-1)}]$
4490.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(-B)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(f*(m + 1))), x] + \text{Simp}[1/(m + 1) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 1)}*\text{Simp}[b*B*m + a*A*(m + 1) + (a*B*m + A*b*(m + 1))*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, A, B, e, f\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m, 0]$
4491.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}*(\text{csc}[(e_.) + (f_.)(x_.)]*(B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(-A*b - a*B)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)})/(f*(m + 1)*(a^2 - b^2)), x] + \text{Simp}[1/((m + 1)*(a^2 - b^2)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*\text{Simp}[(a*A - b*B)*(m + 1) - (A*b - a*B)*(m + 2)*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, A, B, e, f\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$

4492.  $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (B_.) + (A_)] / \text{Sqrt}[\text{csc}[e_.] + (f_.) \cdot (x_)] \cdot (b_.) + (a_)]$ ,  $x\_Symbol$ ]  $\rightarrow$   $\text{Simp}[-2 \cdot (A \cdot b - a \cdot B) \cdot \text{Rt}[a + b \cdot (B/A), 2] \cdot \text{Sqrt}[b \cdot ((1 - \text{Csc}[e + f \cdot x]) / (a + b))] \cdot (\text{Sqrt}[(-b) \cdot ((1 + \text{Csc}[e + f \cdot x]) / (a - b))] / (b^2 \cdot f \cdot \text{Cot}[e + f \cdot x])) \cdot \text{EllipticE}[\text{ArcSin}[\text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]] / \text{Rt}[a + b \cdot (B/A), 2]], (a \cdot A + b \cdot B) / (a \cdot A - b \cdot B)], x]$  /;  $\text{FreeQ}[\{a, b, e, f, A, B\}, x]$  &&  $\text{NeQ}[a^2 - b^2, 0]$  &&  $\text{EqQ}[A^2 - B^2, 0]$
4493.  $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (B_.) + (A_)] / \text{Sqrt}[\text{csc}[e_.] + (f_.) \cdot (x_)] \cdot (b_.) + (a_)]$ ,  $x\_Symbol$ ]  $\rightarrow$   $\text{Simp}[(A - B) \text{Int}[\text{Csc}[e + f \cdot x] / \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]], x], x] + \text{Simp}[B \text{Int}[\text{Csc}[e + f \cdot x] \cdot ((1 + \text{Csc}[e + f \cdot x]) / \text{Sqrt}[a + b \cdot \text{Csc}[e + f \cdot x]])], x], x]$  /;  $\text{FreeQ}[\{a, b, e, f, A, B\}, x]$  &&  $\text{NeQ}[a^2 - b^2, 0]$  &&  $\text{NeQ}[A^2 - B^2, 0]$
4494.  $\text{Int}[\text{csc}[e_.] + (f_.) \cdot (x_)] \cdot (\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (b_.) + (a_)]^{(m_)} \cdot (\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (B_.) + (A_)]$ ,  $x\_Symbol$ ]  $\rightarrow$   $\text{Simp}[2 \cdot \text{Sqrt}[2] \cdot A \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot (A - B \cdot \text{Csc}[e + f \cdot x]) \cdot (\text{Sqrt}[(A + B \cdot \text{Csc}[e + f \cdot x]) / A] / (B \cdot f \cdot \text{Cot}[e + f \cdot x] \cdot (A \cdot ((a + b \cdot \text{Csc}[e + f \cdot x]) / (a \cdot A + b \cdot B)))^m) \cdot \text{AppellF1}[1/2, -(1/2), -m, 3/2, (A - B \cdot \text{Csc}[e + f \cdot x]) / (2 \cdot A), (b \cdot (A - B \cdot \text{Csc}[e + f \cdot x])) / (A \cdot b + a \cdot B)], x]$  /;  $\text{FreeQ}[\{a, b, A, B, e, f\}, x]$  &&  $\text{NeQ}[A \cdot b - a \cdot B, 0]$  &&  $\text{NeQ}[a^2 - b^2, 0]$  &&  $\text{EqQ}[A^2 - B^2, 0]$  &&  $\text{!IntegerQ}[2 \cdot m]$
4495.  $\text{Int}[\text{csc}[e_.] + (f_.) \cdot (x_)] \cdot (\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (b_.) + (a_)]^{(m_)} \cdot (\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (B_.) + (A_)]$ ,  $x\_Symbol$ ]  $\rightarrow$   $\text{Simp}[(A \cdot b - a \cdot B) / b \text{Int}[\text{Csc}[e + f \cdot x] \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^m, x], x] + \text{Simp}[B / b \text{Int}[\text{Csc}[e + f \cdot x] \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^{(m + 1)}, x], x]$  /;  $\text{FreeQ}[\{a, b, A, B, e, f, m\}, x]$  &&  $\text{NeQ}[A \cdot b - a \cdot B, 0]$  &&  $\text{NeQ}[a^2 - b^2, 0]$
4496.  $\text{Int}[\text{csc}[e_.] + (f_.) \cdot (x_)]^2 \cdot (\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (b_.) + (a_)]^{(m_)} \cdot (\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (B_.) + (A_)]$ ,  $x\_Symbol$ ]  $\rightarrow$   $\text{Simp}[(- (A \cdot b - a \cdot B)) \cdot \text{Cot}[e + f \cdot x] \cdot ((a + b \cdot \text{Csc}[e + f \cdot x])^m / (b \cdot f \cdot (2 \cdot m + 1))), x] + \text{Simp}[1 / (b^2 \cdot (2 \cdot m + 1)) \text{Int}[\text{Csc}[e + f \cdot x] \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^{(m + 1)} \cdot \text{Simp}[A \cdot b \cdot m - a \cdot B \cdot m + b \cdot B \cdot (2 \cdot m + 1) \cdot \text{Csc}[e + f \cdot x], x], x], x]$  /;  $\text{FreeQ}[\{a, b, e, f, A, B\}, x]$  &&  $\text{NeQ}[A \cdot b - a \cdot B, 0]$  &&  $\text{EqQ}[a^2 - b^2, 0]$  &&  $\text{LtQ}[m, -2^{(-1)}]$

4497.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]^2 * (\text{csc}[(e_.) + (f_.)(x_.)] * (b_.) + (a_.))^{(m_.)} * (\text{csc}[(e_.) + (f_.)(x_.)] * (B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[a * (A * b - a * B) * \text{Cot}[e + f * x] * ((a + b * \text{Csc}[e + f * x])^{(m + 1)} / (b * f * (m + 1) * (a^2 - b^2))), x] - \text{Simp}[1 / (b * (m + 1) * (a^2 - b^2)) \text{Int}[\text{Csc}[e + f * x] * (a + b * \text{Csc}[e + f * x])^{(m + 1)} * \text{Simp}[b * (A * b - a * B) * (m + 1) - (a * A * b * (m + 2) - B * (a^2 + b^2 * (m + 1))) * \text{Csc}[e + f * x], x], x], x] /; \text{FreeQ}[\{a, b, e, f, A, B\}, x] \&\& \text{NeQ}[A * b - a * B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
4498.  $\text{Int}[\text{csc}[(e_.) + (f_.)(x_.)]^2 * (\text{csc}[(e_.) + (f_.)(x_.)] * (b_.) + (a_.))^{(m_.)} * (\text{csc}[(e_.) + (f_.)(x_.)] * (B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(-B) * \text{Cot}[e + f * x] * ((a + b * \text{Csc}[e + f * x])^{(m + 1)} / (b * f * (m + 2))), x] + \text{Simp}[1 / (b * (m + 2)) \text{Int}[\text{Csc}[e + f * x] * (a + b * \text{Csc}[e + f * x])^m * \text{Simp}[b * B * (m + 1) + (A * b * (m + 2) - a * B) * \text{Csc}[e + f * x], x], x], x] /; \text{FreeQ}[\{a, b, e, f, A, B, m\}, x] \&\& \text{NeQ}[A * b - a * B, 0] \&\& !\text{LtQ}[m, -1]$
4499.  $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_.)] * (d_.))^{(n_.)} * (\text{csc}[(e_.) + (f_.)(x_.)] * (b_.) + (a_.))^{(m_.)} * (\text{csc}[(e_.) + (f_.)(x_.)] * (B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[A * \text{Cot}[e + f * x] * (a + b * \text{Csc}[e + f * x])^m * ((d * \text{Csc}[e + f * x])^n / (f * n)), x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, m, n\}, x] \&\& \text{NeQ}[A * b - a * B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n + 1, 0] \&\& \text{EqQ}[a * A * m - b * B * n, 0]$
4500.  $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_.)] * (d_.))^{(n_.)} * (\text{csc}[(e_.) + (f_.)(x_.)] * (b_.) + (a_.))^{(m_.)} * (\text{csc}[(e_.) + (f_.)(x_.)] * (B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(- (A * b - a * B)) * \text{Cot}[e + f * x] * (a + b * \text{Csc}[e + f * x])^m * ((d * \text{Csc}[e + f * x])^n / (b * f * (2 * m + 1))), x] + \text{Simp}[(a * A * m + b * B * (m + 1)) / (a^2 * (2 * m + 1)) \text{Int}[(a + b * \text{Csc}[e + f * x])^{(m + 1)} * (d * \text{Csc}[e + f * x])^n, x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[A * b - a * B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n + 1, 0] \&\& \text{LeQ}[m, -1]$
4501.  $\text{Int}[(\text{csc}[(e_.) + (f_.)(x_.)] * (d_.))^{(n_.)} * (\text{csc}[(e_.) + (f_.)(x_.)] * (b_.) + (a_.))^{(m_.)} * (\text{csc}[(e_.) + (f_.)(x_.)] * (B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[A * \text{Cot}[e + f * x] * (a + b * \text{Csc}[e + f * x])^m * ((d * \text{Csc}[e + f * x])^n / (f * n)), x] - \text{Simp}[(a * A * m - b * B * n) / (b * d * n) \text{Int}[(a + b * \text{Csc}[e + f * x])^m * (d * \text{Csc}[e + f * x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, m, n\}, x] \&\& \text{NeQ}[A * b - a * B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[m + n + 1, 0] \&\& !\text{LeQ}[m, -1]$

4502.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^{(n\_)}*\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[-2*b*B*\text{Cot}[e + f*x]*((d*\text{Csc}[e + f*x])^n/(f*(2*n + 1)*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{EqQ}[A*b*(2*n + 1) + 2*a*B*n, 0]$
4503.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^{(n\_)}*\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[A*b^2*\text{Cot}[e + f*x]*((d*\text{Csc}[e + f*x])^n/(a*f*n*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] + \text{Simp}[(A*b*(2*n + 1) + 2*a*B*n)/(2*a*d*n) \text{Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(d*\text{Csc}[e + f*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[A*b*(2*n + 1) + 2*a*B*n, 0] \&\& \text{LtQ}[n, 0]$
4504.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^{(n\_)}*\text{Sqrt}[\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_)]*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[-2*b*B*\text{Cot}[e + f*x]*((d*\text{Csc}[e + f*x])^n/(f*(2*n + 1)*\text{Sqrt}[a + b*\text{Csc}[e + f*x]])), x] + \text{Simp}[(A*b*(2*n + 1) + 2*a*B*n)/(b*(2*n + 1)) \text{Int}[\text{Sqrt}[a + b*\text{Csc}[e + f*x]]*(d*\text{Csc}[e + f*x])^n, x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{NeQ}[A*b*(2*n + 1) + 2*a*B*n, 0] \&\& !\text{LtQ}[n, 0]$
4505.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^{(n\_)}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_))^{(m\_)}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[a*A*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 1)}*((d*\text{Csc}[e + f*x])^n/(f*n)), x] - \text{Simp}[b/(a*d*n) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m - 1)}*(d*\text{Csc}[e + f*x])^{(n + 1)}*\text{Simp}[a*A*(m - n - 1) - b*B*n - (a*B*n + A*b*(m + n))*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m, 1/2] \&\& \text{LtQ}[n, -1]$
4506.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^{(n\_)}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_))^{(m\_)}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[(-b)*B*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 1)}*((d*\text{Csc}[e + f*x])^n/(f*(m + n))), x] + \text{Simp}[1/(d*(m + n)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m - 1)}*(d*\text{Csc}[e + f*x])^n*\text{Simp}[a*A*d*(m + n) + B*(b*d*n) + (A*b*d*(m + n) + a*B*d*(2*m + n - 1))*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m,$



1/2] && !LtQ[n, -1]

4507. Int[(csc[(e\_.) + (f\_.)(x\_)]\*(d\_.))^(n\_)\*(csc[(e\_.) + (f\_.)(x\_)]\*(b\_.) + (a\_.))^(m\_)\*(csc[(e\_.) + (f\_.)(x\_)]\*(B\_.) + (A\_.)), x\_Symbol] := Simp[d\*(A\*b - a\*B)\*Cot[e + f\*x]\*(a + b\*Csc[e + f\*x])^m\*((d\*Csc[e + f\*x])^(n - 1)/(a\*f\*(2\*m + 1))), x] - Simp[1/(a\*b\*(2\*m + 1)) Int[(a + b\*Csc[e + f\*x])^(m + 1)\*(d\*Csc[e + f\*x])^(n - 1)\*Simp[A\*(a\*d\*(n - 1)) - B\*(b\*d\*(n - 1)) - d\*(a\*B\*(m - n + 1) + A\*b\*(m + n))\*Csc[e + f\*x], x], x] /; FreeQ[{a, b, d, e, f, A, B}, x] && NeQ[A\*b - a\*B, 0] && EqQ[a^2 - b^2, 0] && LtQ[m, -2^(-1)] && GtQ[n, 0]

4508. Int[(csc[(e\_.) + (f\_.)(x\_)]\*(d\_.))^(n\_)\*(csc[(e\_.) + (f\_.)(x\_)]\*(b\_.) + (a\_.))^(m\_)\*(csc[(e\_.) + (f\_.)(x\_)]\*(B\_.) + (A\_.)), x\_Symbol] := Simp[(-A\*b - a\*B)\*Cot[e + f\*x]\*(a + b\*Csc[e + f\*x])^m\*((d\*Csc[e + f\*x])^n/(b\*f\*(2\*m + 1))), x] - Simp[1/(a^2\*(2\*m + 1)) Int[(a + b\*Csc[e + f\*x])^(m + 1)\*(d\*Csc[e + f\*x])^n\*Simp[b\*B\*n - a\*A\*(2\*m + n + 1) + (A\*b - a\*B)\*(m + n + 1)\*Csc[e + f\*x], x], x], x] /; FreeQ[{a, b, d, e, f, A, B, n}, x] && NeQ[A\*b - a\*B, 0] && EqQ[a^2 - b^2, 0] && LtQ[m, -2^(-1)] && !GtQ[n, 0]

4509. Int[(csc[(e\_.) + (f\_.)(x\_)]\*(d\_.))^(n\_)\*(csc[(e\_.) + (f\_.)(x\_)]\*(b\_.) + (a\_.))^(m\_)\*(csc[(e\_.) + (f\_.)(x\_)]\*(B\_.) + (A\_.)), x\_Symbol] := Simp[(-B)\*d\*Cot[e + f\*x]\*(a + b\*Csc[e + f\*x])^m\*((d\*Csc[e + f\*x])^(n - 1)/(f\*(m + n))), x] + Simp[d/(b\*(m + n)) Int[(a + b\*Csc[e + f\*x])^m\*(d\*Csc[e + f\*x])^(n - 1)\*Simp[b\*B\*(n - 1) + (A\*b\*(m + n) + a\*B\*m)\*Csc[e + f\*x], x], x], x] /; FreeQ[{a, b, d, e, f, A, B, m}, x] && NeQ[A\*b - a\*B, 0] && EqQ[a^2 - b^2, 0] && GtQ[n, 1]

4510. Int[(csc[(e\_.) + (f\_.)(x\_)]\*(d\_.))^(n\_)\*(csc[(e\_.) + (f\_.)(x\_)]\*(b\_.) + (a\_.))^(m\_)\*(csc[(e\_.) + (f\_.)(x\_)]\*(B\_.) + (A\_.)), x\_Symbol] := Simp[A\*Cot[e + f\*x]\*(a + b\*Csc[e + f\*x])^m\*((d\*Csc[e + f\*x])^n/(f\*n)), x] - Simp[1/(b\*d\*n) Int[(a + b\*Csc[e + f\*x])^m\*(d\*Csc[e + f\*x])^(n + 1)\*Simp[a\*A\*m - b\*B\*n - A\*b\*(m + n + 1)\*Csc[e + f\*x], x], x], x] /; FreeQ[{a, b, d, e, f, A, B, m}, x] && NeQ[A\*b - a\*B, 0] && EqQ[a^2 - b^2, 0] && LtQ[n, 0]

4511.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^n*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_))^{(m\_)}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[(A*b - a*B)/b \text{ Int}[(a + b*\text{Csc}[e + f*x])^m*(d*\text{Csc}[e + f*x])^n, x], x] + \text{Simp}[B/b \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(d*\text{Csc}[e + f*x])^n, x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B, m\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{Eq}[a^2 - b^2, 0]$
4512.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^n*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_))^{2*}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[a^2*A*\text{Cos}[e + f*x]*((d*\text{Csc}[e + f*x])^{(n + 1)})/(d*f*n), x] + \text{Simp}[1/(d*n) \text{ Int}[(d*\text{Csc}[e + f*x])^{(n + 1)}*(a*(2*A*b + a*B)*n + (2*a*b*B*n + A*(b^2*n + a^2*(n + 1)))*\text{Csc}[e + f*x] + b^2*B*n*\text{Csc}[e + f*x]^2), x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LeQ}[n, -1]$
4513.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^n*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_))^{(m\_)}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[a*A*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 1)}*((d*\text{Csc}[e + f*x])^n/(f*n)), x] + \text{Simp}[1/(d*n) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m - 2)}*(d*\text{Csc}[e + f*x])^{(n + 1)}*\text{Simp}[a*(a*B*n - A*b*(m - n - 1)) + (2*a*b*B*n + A*(b^2*n + a^2*(1 + n)))*\text{Csc}[e + f*x] + b*(b*B*n + a*A*(m + n))*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m, 1] \&\& \text{LeQ}[n, -1]$
4514.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^n*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_))^{(m\_)}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[(-b)*B*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m - 1)}*((d*\text{Csc}[e + f*x])^n/(f*(m + n))), x] + \text{Simp}[1/(m + n) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m - 2)}*(d*\text{Csc}[e + f*x])^n*\text{Simp}[a^2*A*(m + n) + a*b*B*n + (a*(2*A*b + a*B)*(m + n) + b^2*B*(m + n - 1))*\text{Csc}[e + f*x] + b*(A*b*(m + n) + a*B*(2*m + n - 1))*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{GtQ}[m, 1] \&\& !( \text{IGtQ}[n, 1] \&\& !\text{IntegerQ}[m])$
4515.  $\text{Int}[(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(d\_.)^n*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(b\_.) + (a\_))^{(m\_)}*(\text{csc}[(e\_.) + (f\_.)*(x\_)]*(B\_.) + (A\_)), x\_Symbol] \rightarrow \text{Simp}[(-d)*(A*b - a*B)*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*((d*\text{Csc}[$

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e + f*x]^(n - 1)/(f*(m + 1)*(a^2 - b^2))), x] + Simp[1/((m + 1)*(a^2
- b^2)) Int[(a + b*Csc[e + f*x])^(m + 1)*(d*Csc[e + f*x])^(n - 1)*Si
mp[d*(n - 1)*(A*b - a*B) + d*(a*A - b*B)*(m + 1)*Csc[e + f*x] - d*(A*b
- a*B)*(m + n + 1)*Csc[e + f*x]^2, x], x] /; FreeQ[{a, b, d, e, f
, A, B}, x] && NeQ[A*b - a*B, 0] && NeQ[a^2 - b^2, 0] && LtQ[m, -1] &&
LtQ[0, n, 1]

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4516. $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_)]^3*(\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)^{(m_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(B_.) + (A_)), x_Symbol] \rightarrow \text{Simp}[(-a^2)*(A*b - a*B)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)})/(b^2*f*(m + 1)*(a^2 - b^2)), x] + \text{Simp}[1/(b^2*(m + 1)*(a^2 - b^2)) \text{Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*\text{Simp}[a*b*(A*b - a*B)*(m + 1) - (A*b - a*B)*(a^2 + b^2*(m + 1))*\text{Csc}[e + f*x] + b*B*(m + 1)*(a^2 - b^2)*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
4517. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)^{(n_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)^{(m_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(B_.) + (A_)), x_Symbol] \rightarrow \text{Simp}[a*d^2*(A*b - a*B)*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*((d*\text{Csc}[e + f*x])^{(n - 2)})/(b*f*(m + 1)*(a^2 - b^2)), x] - \text{Simp}[d/(b*(m + 1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(d*\text{Csc}[e + f*x])^{(n - 2)}*\text{Simp}[a*d*(A*b - a*B)*(n - 2) + b*d*(A*b - a*B)*(m + 1)*\text{Csc}[e + f*x] - (a*A*b*d*(m + n) - d*B*(a^2*(n - 1) + b^2*(m + 1)))*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 1]$
4518. $\text{Int}[(\text{csc}[(e_.) + (f_.)*(x_)]*(d_.)^{(n_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)^{(m_)}*(\text{csc}[(e_.) + (f_.)*(x_)]*(B_.) + (A_)), x_Symbol] \rightarrow \text{Simp}[b*(A*b - a*B)*\text{Cot}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}*((d*\text{Csc}[e + f*x])^n/(a*f*(m + 1)*(a^2 - b^2))), x] + \text{Simp}[1/(a*(m + 1)*(a^2 - b^2)) \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*(d*\text{Csc}[e + f*x])^n*\text{Simp}[A*(a^2*(m + 1) - b^2*(m + n + 1)) + a*b*B*n - a*(A*b - a*B)*(m + 1)*\text{Csc}[e + f*x] + b*(A*b - a*B)*(m + n + 2)*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B, n\}, x] \&\& \text{NeQ}[A*b - a*B, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& !(ILtQ[m + 1/2, 0] \&\& ILtQ[n, 0])$

4519. `Int[(csc[(e_.) + (f_.)*(x_)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_)*(csc[(e_.) + (f_.)*(x_)]*(B_.) + (A_.)), x_Symbol] := Simp[(-B)*d*Cot[e + f*x]*(a + b*Csc[e + f*x])^m*((d*Csc[e + f*x])^(n - 1))/(f*(m + n)), x] + Simp[d/(m + n) Int[(a + b*Csc[e + f*x])^(m - 1)*(d*Csc[e + f*x])^(n - 1)*Simp[a*B*(n - 1) + (b*B*(m + n - 1) + a*A*(m + n))*Csc[e + f*x] + (a*B*m + A*b*(m + n))*Csc[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, B}, x] && NeQ[A*b - a*B, 0] && NeQ[a^2 - b^2, 0] && LtQ[0, m, 1] && GtQ[n, 0]`
4520. `Int[(csc[(e_.) + (f_.)*(x_)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_)*(csc[(e_.) + (f_.)*(x_)]*(B_.) + (A_.)), x_Symbol] := Simp[A*Cot[e + f*x]*(a + b*Csc[e + f*x])^m*((d*Csc[e + f*x])^n/(f*n)), x] - Simp[1/(d*n) Int[(a + b*Csc[e + f*x])^(m - 1)*(d*Csc[e + f*x])^(n + 1)*Simp[A*b*m - a*B*n - (b*B*n + a*A*(n + 1))*Csc[e + f*x] - A*b*(m + n + 1)*Csc[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, B}, x] && NeQ[A*b - a*B, 0] && NeQ[a^2 - b^2, 0] && LtQ[0, m, 1] && LeQ[n, -1]`
4521. `Int[(csc[(e_.) + (f_.)*(x_)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_)*(csc[(e_.) + (f_.)*(x_)]*(B_.) + (A_.)), x_Symbol] := Simp[(-B)*d^2*Cot[e + f*x]*(a + b*Csc[e + f*x])^(m + 1)*((d*Csc[e + f*x])^(n - 2)/(b*f*(m + n))), x] + Simp[d^2/(b*(m + n)) Int[(a + b*Csc[e + f*x])^m*(d*Csc[e + f*x])^(n - 2)*Simp[a*B*(n - 2) + B*b*(m + n - 1)*Csc[e + f*x] + (A*b*(m + n) - a*B*(n - 1))*Csc[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, B, m}, x] && NeQ[A*b - a*B, 0] && NeQ[a^2 - b^2, 0] && GtQ[n, 1] && NeQ[m + n, 0] && !IGtQ[m, 1]`
4522. `Int[(csc[(e_.) + (f_.)*(x_)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.))^(m_)*(csc[(e_.) + (f_.)*(x_)]*(B_.) + (A_.)), x_Symbol] := Simp[A*Cot[e + f*x]*(a + b*Csc[e + f*x])^(m + 1)*((d*Csc[e + f*x])^n/(a*f*n)), x] + Simp[1/(a*d*n) Int[(a + b*Csc[e + f*x])^m*(d*Csc[e + f*x])^(n + 1)*Simp[a*B*n - A*b*(m + n + 1) + A*a*(n + 1)*Csc[e + f*x] + A*b*(m + n + 2)*Csc[e + f*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, B, m}, x] && NeQ[A*b - a*B, 0] && NeQ[a^2 - b^2, 0] && LeQ[n, -1]`
4523. `Int[(csc[(e_.) + (f_.)*(x_)]*(B_.) + (A_.))/(Sqrt[csc[(e_.) + (f_.)*(x_)]*(d_.)]*Sqrt[csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_.)]), x_Symbol] := Si`

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mp[A/a Int[Sqrt[a + b*Csc[e + f*x]]/Sqrt[d*Csc[e + f*x]], x], x] - S
imp[(A*b - a*B)/(a*d) Int[Sqrt[d*Csc[e + f*x]]/Sqrt[a + b*Csc[e + f*
x]], x], x] /; FreeQ[{a, b, d, e, f, A, B}, x] && NeQ[A*b - a*B, 0] &&
NeQ[a^2 - b^2, 0]

4524. Int[(Sqrt[csc[(e_.) + (f_.)*(x_)]*(d_.)]*(csc[(e_.) + (f_.)*(x_)]*(B_.
) + (A_)))/Sqrt[csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_)], x_Symbol] :> Si
mp[A Int[Sqrt[d*Csc[e + f*x]]/Sqrt[a + b*Csc[e + f*x]], x], x] + Sim
p[B/d Int[(d*Csc[e + f*x])^(3/2)/Sqrt[a + b*Csc[e + f*x]], x], x] /;
FreeQ[{a, b, d, e, f, A, B}, x] && NeQ[A*b - a*B, 0] && NeQ[a^2 - b^2
, 0]

4525. Int[(Sqrt[csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_)]*(csc[(e_.) + (f_.)*(x_
)]*(B_.) + (A_)))/Sqrt[csc[(e_.) + (f_.)*(x_)]*(d_.)], x_Symbol] :> Si
mp[B/d Int[Sqrt[a + b*Csc[e + f*x]]*Sqrt[d*Csc[e + f*x]], x], x] + S
imp[A Int[Sqrt[a + b*Csc[e + f*x]]/Sqrt[d*Csc[e + f*x]], x], x] /; F
reeQ[{a, b, d, e, f, A, B}, x] && NeQ[A*b - a*B, 0] && NeQ[a^2 - b^2,
0]

4526. Int[((csc[(e_.) + (f_.)*(x_)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_)]*(B_
.) + (A_)))/(csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_)), x_Symbol] :> Simp[
A/a Int[(d*Csc[e + f*x])^n, x], x] - Simp[(A*b - a*B)/(a*d) Int[(d
*Csc[e + f*x])^(n + 1)/(a + b*Csc[e + f*x]), x], x] /; FreeQ[{a, b, d,
e, f, A, B, n}, x] && NeQ[A*b - a*B, 0] && NeQ[a^2 - b^2, 0]

4527. Int[(csc[(e_.) + (f_.)*(x_)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_)]*(b_
.) + (a_))^(m_)*(csc[(e_.) + (f_.)*(x_)]*(B_.) + (A_)), x_Symbol] :> U
nintegrable[(d*Csc[e + f*x])^n*(a + b*Csc[e + f*x])^m*(A + B*Csc[e + f
*x]), x] /; FreeQ[{a, b, d, e, f, A, B, m, n}, x] && NeQ[A*b - a*B, 0]
&& NeQ[a^2 - b^2, 0]

4528. Int[((A_.) + csc[(e_.) + (f_.)*(x_)]*(B_.))^(p_)*(csc[(e_.) + (f_.)*(
x_)]*(b_.) + (a_))^(m_)*(csc[(e_.) + (f_.)*(x_)]*(d_.) + (c_))^(n_.),
x_Symbol] :> Simp[(-a)*c^m Int[Cos[e + f*x]^(2*m)*(d + c*Sin[e +
f*x])^(n - m)*((B + A*Sin[e + f*x])^p/Sin[e + f*x]^(m + n + p)), x], x
] /; FreeQ[{a, b, c, d, e, f, A, B, n, p}, x] && EqQ[b*c + a*d, 0] &&
EqQ[a^2 - b^2, 0] && IntegersQ[m, n, p]

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4529.  $\text{Int}[(A_.) + \csc[(e_.) + (f_.)(x_.)]*(B_.) + \csc[(e_.) + (f_.)(x_.)]^2*(C_.)]*(\csc[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/b^2 \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*\text{Simp}[b*B - a*C + b*C*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, e, f, A, B, C, m\}, x] \&\& \text{EqQ}[A*b^2 - a*b*B + a^2*C, 0]$
4530.  $\text{Int}[(A_.) + \csc[(e_.) + (f_.)(x_.)]^2*(C_.)]*(\csc[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[C/b^2 \text{Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*\text{Simp}[-a + b*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}[\{a, b, e, f, A, C, m\}, x] \&\& \text{EqQ}[A*b^2 + a^2*C, 0]$
4531.  $\text{Int}[(\csc[(e_.) + (f_.)(x_.)]*(b_.))^{(m_.)}*(\csc[(e_.) + (f_.)(x_.)]^2*(C_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[A*\text{Cot}[e + f*x]*((b*\text{Csc}[e + f*x])^m/(f*m)), x] /; \text{FreeQ}[\{b, e, f, A, C, m\}, x] \&\& \text{EqQ}[C*m + A*(m + 1), 0]$
4532.  $\text{Int}[\csc[(e_.) + (f_.)(x_.)]^{(m_.)}*(\csc[(e_.) + (f_.)(x_.)]^2*(C_.) + (A_.)), x\_Symbol] \rightarrow \text{Int}[(C + A*\text{Sin}[e + f*x]^2)/\text{Sin}[e + f*x]^{(m + 2)}, x] /; \text{FreeQ}[\{e, f, A, C\}, x] \&\& \text{NeQ}[C*m + A*(m + 1), 0] \&\& \text{ILtQ}[(m + 1)/2, 0]$
4533.  $\text{Int}[(\csc[(e_.) + (f_.)(x_.)]*(b_.))^{(m_.)}*(\csc[(e_.) + (f_.)(x_.)]^2*(C_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[A*\text{Cot}[e + f*x]*((b*\text{Csc}[e + f*x])^m/(f*m)), x] + \text{Simp}[(C*m + A*(m + 1))/(b^2*m) \text{Int}[(b*\text{Csc}[e + f*x])^{(m + 2)}, x], x] /; \text{FreeQ}[\{b, e, f, A, C\}, x] \&\& \text{NeQ}[C*m + A*(m + 1), 0] \&\& \text{LeQ}[m, -1]$
4534.  $\text{Int}[(\csc[(e_.) + (f_.)(x_.)]*(b_.))^{(m_.)}*(\csc[(e_.) + (f_.)(x_.)]^2*(C_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(-C)*\text{Cot}[e + f*x]*((b*\text{Csc}[e + f*x])^m/(f*(m + 1))), x] + \text{Simp}[(C*m + A*(m + 1))/(m + 1) \text{Int}[(b*\text{Csc}[e + f*x])^m, x], x] /; \text{FreeQ}[\{b, e, f, A, C, m\}, x] \&\& \text{NeQ}[C*m + A*(m + 1), 0] \&\& !\text{LeQ}[m, -1]$
4535.  $\text{Int}[(\csc[(e_.) + (f_.)(x_.)]*(b_.))^{(m_.)}*((A_.) + \csc[(e_.) + (f_.)(x_.)]*(B_.) + \csc[(e_.) + (f_.)(x_.)]^2*(C_.)), x\_Symbol] \rightarrow \text{Simp}[B/b \text{Int}[(b*\text{Csc}[e + f*x])^{(m + 1)}, x], x] + \text{Int}[(b*\text{Csc}[e + f*x])^m*(A + C$

- $\text{Csc}[e + f*x]^2, x] /; \text{FreeQ}\{b, e, f, A, B, C, m\}, x]$
4536.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[(-b)*C*\text{Csc}[e + f*x]*(\text{Cot}[e + f*x]/(2*f)), x] + \text{Simp}[1/2 \text{ Int}[\text{Simp}[2*A*a + (2*B*a + b*(2*A + C))*\text{Csc}[e + f*x] + 2*(a*C + B*b)*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C\}, x]$
4537.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[(-b)*C*\text{Csc}[e + f*x]*(\text{Cot}[e + f*x]/(2*f)), x] + \text{Simp}[1/2 \text{ Int}[\text{Simp}[2*A*a + b*(2*A + C)*\text{Csc}[e + f*x] + 2*a*C*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}\{a, b, e, f, A, C\}, x]$
4538.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]/(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[C/b \text{ Int}[\text{Csc}[e + f*x], x], x] + \text{Simp}[1/b \text{ Int}[(A*b + (b*B - a*C)*\text{Csc}[e + f*x])/(a + b*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C\}, x]$
4539.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]/(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[C/b \text{ Int}[\text{Csc}[e + f*x], x], x] + \text{Simp}[1/b \text{ Int}[(A*b - a*C*\text{Csc}[e + f*x])/(a + b*\text{Csc}[e + f*x]), x], x] /; \text{FreeQ}\{a, b, e, f, A, C\}, x]$
4540.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(-a*A - b*B + a*C)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(a*f*(2*m + 1))), x] + \text{Simp}[1/(a*b*(2*m + 1)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*\text{Simp}[A*b*(2*m + 1) + (b*B*(m + 1) - a*(A*(m + 1) - C*m))*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$
4541.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(-a)*(A + C)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^m/(a*f*(2*m + 1))), x] + \text{Simp}[1/(a*b*(2*m + 1)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*\text{Simp}[A*b*(2*m + 1) - a*(A*(m + 1) - C*m)*\text{Csc}[e + f*x], x], x], x] /; \text{FreeQ}\{a, b, e, f, A, C\}, x] \&\& \text{EqQ}[a^2 -$

- $b^2, 0]$  && LtQ[m,  $-2^{-(-1)}$ ]
4542. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])\*(B\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_))^(m\_.), x\_Symbol] := Simp[(-C)\*Cot[e + f\*x]\*((a + b\*Csc[e + f\*x])^m/(f\*(m + 1))), x] + Simp[1/(b\*(m + 1)) Int[(a + b\*Csc[e + f\*x])^m\*Simp[A\*b\*(m + 1) + (a\*C\*m + b\*B\*(m + 1))\*Csc[e + f\*x], x], x], x] /; FreeQ[{a, b, e, f, A, B, C, m}, x] && EqQ[a^2 - b^2, 0] && !LtQ[m,  $-2^{-(-1)}$ ]
4543. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])^2\*(C\_.))\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_))^(m\_.), x\_Symbol] := Simp[(-C)\*Cot[e + f\*x]\*((a + b\*Csc[e + f\*x])^m/(f\*(m + 1))), x] + Simp[1/(b\*(m + 1)) Int[(a + b\*Csc[e + f\*x])^m\*Simp[A\*b\*(m + 1) + a\*C\*m\*Csc[e + f\*x], x], x], x] /; FreeQ[{a, b, e, f, A, C, m}, x] && EqQ[a^2 - b^2, 0] && !LtQ[m,  $-2^{-(-1)}$ ]
4544. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])\*(B\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_))^(m\_.), x\_Symbol] := Simp[(-C)\*Cot[e + f\*x]\*((a + b\*Csc[e + f\*x])^m/(f\*(m + 1))), x] + Simp[1/(m + 1) Int[(a + b\*Csc[e + f\*x])^(m - 1)\*Simp[a\*A\*(m + 1) + ((A\*b + a\*B)\*(m + 1) + b\*C\*m)\*Csc[e + f\*x] + (b\*B\*(m + 1) + a\*C\*m)\*Csc[e + f\*x]^2, x], x], x] /; FreeQ[{a, b, e, f, A, B, C}, x] && NeQ[a^2 - b^2, 0] && IGtQ[2\*m, 0]
4545. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])^2\*(C\_.))\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_))^(m\_.), x\_Symbol] := Simp[(-C)\*Cot[e + f\*x]\*((a + b\*Csc[e + f\*x])^m/(f\*(m + 1))), x] + Simp[1/(m + 1) Int[(a + b\*Csc[e + f\*x])^(m - 1)\*Simp[a\*A\*(m + 1) + (A\*b\*(m + 1) + b\*C\*m)\*Csc[e + f\*x] + a\*C\*m\*Csc[e + f\*x]^2, x], x], x] /; FreeQ[{a, b, e, f, A, C}, x] && NeQ[a^2 - b^2, 0] && IGtQ[2\*m, 0]
4546. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])\*(B\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))/Sqrt[csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_)], x\_Symbol] := Int[(A + (B - C)\*Csc[e + f\*x])/Sqrt[a + b\*Csc[e + f\*x]], x] + Simp[C Int[Csc[e + f\*x]\*((1 + Csc[e + f\*x])/Sqrt[a + b\*Csc[e + f\*x]]), x], x] /; FreeQ[{a, b, e, f, A, B, C}, x] && NeQ[a^2 - b^2, 0]



4547.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)(x_.)]^2(C_.)]/\text{Sqrt}[\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.)], x\_Symbol] \rightarrow \text{Int}[(A - C*\text{Csc}[e + f*x])/\text{Sqrt}[a + b*\text{Csc}[e + f*x]], x] + \text{Simp}[C \text{ Int}[\text{Csc}[e + f*x]*((1 + \text{Csc}[e + f*x])/\text{Sqrt}[a + b*\text{Csc}[e + f*x]])], x], x] /; \text{FreeQ}[\{a, b, e, f, A, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4548.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)(x_.)]^2(C_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(A*b^2 - a*b*B + a^2*C)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)})/(a*f*(m + 1)*(a^2 - b^2)), x] + \text{Simp}[1/(a*(m + 1)*(a^2 - b^2)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*\text{Simp}[A*(a^2 - b^2)*(m + 1) - a*(A*b - a*B + b*C)*(m + 1)*\text{Csc}[e + f*x] + (A*b^2 - a*b*B + a^2*C)*(m + 2)*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, e, f, A, B, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
4549.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)(x_.)]^2(C_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(A*b^2 + a^2*C)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)})/(a*f*(m + 1)*(a^2 - b^2)), x] + \text{Simp}[1/(a*(m + 1)*(a^2 - b^2)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^{(m + 1)}*\text{Simp}[A*(a^2 - b^2)*(m + 1) - a*b*(A + C)*(m + 1)*\text{Csc}[e + f*x] + (A*b^2 + a^2*C)*(m + 2)*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, e, f, A, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[2*m] \&\& \text{LtQ}[m, -1]$
4550.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)(x_.)]^2(C_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[(a + b*\text{Csc}[e + f*x])^m*(A*b + (b*B - a*C)*\text{Csc}[e + f*x]), x], x] + \text{Simp}[C/b \text{ Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}[\{a, b, e, f, A, B, C, m\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& !\text{IntegerQ}[2*m]$
4551.  $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)(x_.)]^2(C_.)]*(\text{csc}[(e_.) + (f_.)(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[(a + b*\text{Csc}[e + f*x])^m*(A*b - a*C*\text{Csc}[e + f*x]), x], x] + \text{Simp}[C/b \text{ Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}, x], x] /; \text{FreeQ}[\{a, b, e, f, A, C, m\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& !\text{IntegerQ}[2*m]$

4552.  $\text{Int}[(\cos[(e_{.}) + (f_{.})(x_{.})]*(b_{.}))^{(m_{.})}*((A_{.}) + (B_{.})*\sec[(e_{.}) + (f_{.})(x_{.})] + (C_{.})*\sec[(e_{.}) + (f_{.})(x_{.})]^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[b^2 \text{Int}[(b*\cos[e + f*x])^{(m - 2)}*(C + B*\cos[e + f*x] + A*\cos[e + f*x]^2), x], x] /; \text{FreeQ}[\{b, e, f, A, B, C, m\}, x] \ \&\& \ !\text{IntegerQ}[m]$
4553.  $\text{Int}[((A_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]*(B_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]^2*(C_{.}))*(b_{.})*\sin[(e_{.}) + (f_{.})(x_{.})]^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b^2 \text{Int}[(b*\sin[e + f*x])^{(m - 2)}*(C + B*\sin[e + f*x] + A*\sin[e + f*x]^2), x], x] /; \text{FreeQ}[\{b, e, f, A, B, C, m\}, x] \ \&\& \ !\text{IntegerQ}[m]$
4554.  $\text{Int}[(\cos[(e_{.}) + (f_{.})(x_{.})]*(b_{.}))^{(m_{.})}*((A_{.}) + (C_{.})*\sec[(e_{.}) + (f_{.})(x_{.})]^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[b^2 \text{Int}[(b*\cos[e + f*x])^{(m - 2)}*(C + A*\cos[e + f*x]^2), x], x] /; \text{FreeQ}[\{b, e, f, A, C, m\}, x] \ \&\& \ !\text{IntegerQ}[m]$
4555.  $\text{Int}[((A_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]^2*(C_{.}))*(b_{.})*\sin[(e_{.}) + (f_{.})(x_{.})]^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b^2 \text{Int}[(b*\sin[e + f*x])^{(m - 2)}*(C + A*\sin[e + f*x]^2), x], x] /; \text{FreeQ}[\{b, e, f, A, C, m\}, x] \ \&\& \ !\text{IntegerQ}[m]$
4556.  $\text{Int}[((a_{.})*((b_{.})*\sec[(e_{.}) + (f_{.})(x_{.})])^{(p_{.})})^{(m_{.})}*((A_{.}) + (B_{.})*\sec[(e_{.}) + (f_{.})(x_{.})] + (C_{.})*\sec[(e_{.}) + (f_{.})(x_{.})]^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[a^{\text{IntPart}[m]}*((a*(b*\sec[e + f*x])^p)^{\text{FracPart}[m]}/(b*\sec[e + f*x])^{(p*\text{FracPart}[m])}) \text{Int}[(b*\sec[e + f*x])^{(m*p)}*(A + B*\sec[e + f*x] + C*\sec[e + f*x]^2), x], x] /; \text{FreeQ}[\{a, b, e, f, A, B, C, m, p\}, x] \ \&\& \ !\text{IntegerQ}[m]$
4557.  $\text{Int}[((a_{.})*(csc[(e_{.}) + (f_{.})(x_{.})]*(b_{.}))^{(p_{.})})^{(m_{.})}*((A_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]*(B_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]^2*(C_{.})), x_{\text{Symbol}}] \rightarrow \text{Simp}[a^{\text{IntPart}[m]}*((a*(b*\csc[e + f*x])^p)^{\text{FracPart}[m]}/(b*\csc[e + f*x])^{(p*\text{FracPart}[m])}) \text{Int}[(b*\csc[e + f*x])^{(m*p)}*(A + B*\csc[e + f*x] + C*\csc[e + f*x]^2), x], x] /; \text{FreeQ}[\{a, b, e, f, A, B, C, m, p\}, x] \ \&\& \ !\text{IntegerQ}[m]$
4558.  $\text{Int}[((a_{.})*((b_{.})*\sec[(e_{.}) + (f_{.})(x_{.})])^{(p_{.})})^{(m_{.})}*((A_{.}) + (C_{.})*\sec[(e_{.}) + (f_{.})(x_{.})]^2), x_{\text{Symbol}}] \rightarrow \text{Simp}[a^{\text{IntPart}[m]}*((a*(b*\sec[e + f*x])^p)^{\text{FracPart}[m]}/(b*\sec[e + f*x])^{(p*\text{FracPart}[m])}) \text{Int}[(b*\sec$

- $[e + f*x]^{(m*p)}*(A + C*\text{Sec}[e + f*x]^2), x], x] /;$  FreeQ[{a, b, e, f, A, C, m, p}, x] && !IntegerQ[m]
4559. Int[((a\_.)\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.))^(p\_))^(m\_)\*((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.)), x\_Symbol] :> Simp[a^IntPart[m]\*((a\*(b\*Csc[e + f\*x])^p)^FracPart[m]/(b\*Csc[e + f\*x])^(p\*FracPart[m])) Int[(b\*Csc[e + f\*x])^(m\*p)\*(A + C\*Csc[e + f\*x]^2), x], x] /; FreeQ[{a, b, e, f, A, C, m, p}, x] && !IntegerQ[m]
4560. Int[((a\_.) + csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.))^(m\_)\*((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)]\*(B\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))\*((c\_.) + csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^(n\_), x\_Symbol] :> Simp[1/b^2 Int[(a + b\*Csc[e + f\*x])^(m + 1)\*(c + d\*Csc[e + f\*x])^n\*(b\*B - a\*C + b\*C\*Csc[e + f\*x]), x], x] /; FreeQ[{a, b, c, d, e, f, A, B, C, m, n}, x] && EqQ[A\*b^2 - a\*b\*B + a^2\*C, 0]
4561. Int[((a\_.) + csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.))^(m\_)\*((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))\*((c\_.) + csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^(n\_), x\_Symbol] :> Simp[-C/b^2 Int[(a + b\*Csc[e + f\*x])^(m + 1)\*(c + d\*Csc[e + f\*x])^n\*(a - b\*Csc[e + f\*x]), x], x] /; FreeQ[{a, b, c, d, e, f, A, C, m, n}, x] && EqQ[A\*b^2 + a^2\*C, 0]
4562. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)]\*(B\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))\*((csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^(n\_)\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_)), x\_Symbol] :> Simp[A\*a\*Cot[e + f\*x]\*((d\*Csc[e + f\*x])^n/(f\*n)), x] + Simp[1/(d\*n) Int[(d\*Csc[e + f\*x])^(n + 1)\*Simp[n\*(B\*a + A\*b) + (n\*(a\*C + B\*b) + A\*a\*(n + 1))\*Csc[e + f\*x] + b\*C\*n\*Csc[e + f\*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, B, C}, x] && LtQ[n, -1]
4563. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))\*((csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^(n\_)\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_)), x\_Symbol] :> Simp[A\*a\*Cot[e + f\*x]\*((d\*Csc[e + f\*x])^n/(f\*n)), x] + Simp[1/(d\*n) Int[(d\*Csc[e + f\*x])^(n + 1)\*Simp[A\*b\*n + a\*(C\*n + A\*(n + 1))\*Csc[e + f\*x] + b\*C\*n\*Csc[e + f\*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, C}, x] && LtQ[n, -1]

4564.  $\text{Int}[(A_.) + \csc[(e_.) + (f_.)(x_.)](B_.) + \csc[(e_.) + (f_.)(x_.)]^2 * (C_.) * (\csc[(e_.) + (f_.)(x_.)](d_.))^n * (\csc[(e_.) + (f_.)(x_.)](b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[(-b)*C*Csc[e + f*x]*Cot[e + f*x]*((d * Csc[e + f*x])^n / (f*(n + 2))), x] + \text{Simp}[1/(n + 2) \text{Int}[(d*Csc[e + f*x])^n * \text{Simp}[A*a*(n + 2) + (B*a*(n + 2) + b*(C*(n + 1) + A*(n + 2)))*Csc[e + f*x] + (a*C + B*b)*(n + 2)*Csc[e + f*x]^2, x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B, C, n\}, x] \&\& !\text{LtQ}[n, -1]$
4565.  $\text{Int}[(A_.) + \csc[(e_.) + (f_.)(x_.)]^2 * (C_.) * (\csc[(e_.) + (f_.)(x_.)](d_.))^n * (\csc[(e_.) + (f_.)(x_.)](b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[(-b)*C*Csc[e + f*x]*Cot[e + f*x]*((d*Csc[e + f*x])^n / (f*(n + 2))), x] + \text{Simp}[1/(n + 2) \text{Int}[(d*Csc[e + f*x])^n * \text{Simp}[A*a*(n + 2) + b*(C*(n + 1) + A*(n + 2)))*Csc[e + f*x] + a*C*(n + 2)*Csc[e + f*x]^2, x], x] /; \text{FreeQ}\{a, b, d, e, f, A, C, n\}, x] \&\& !\text{LtQ}[n, -1]$
4566.  $\text{Int}[\csc[(e_.) + (f_.)(x_.)] * ((A_.) + \csc[(e_.) + (f_.)(x_.)](B_.) + \csc[(e_.) + (f_.)(x_.)]^2 * (C_.) * (\csc[(e_.) + (f_.)(x_.)](b_.) + (a_.))^{(m)}, x\_Symbol] \rightarrow \text{Simp}[(-a*A - b*B + a*C)*Cot[e + f*x]*Csc[e + f*x] * ((a + b*Csc[e + f*x])^m / (a*f*(2*m + 1))), x] - \text{Simp}[1/(a*b*(2*m + 1)) \text{Int}[Csc[e + f*x] * (a + b*Csc[e + f*x])^{(m + 1)} * \text{Simp}[a*B - b*C - 2*A*b*(m + 1) - (b*B*(m + 2) - a*(A*(m + 2) - C*(m - 1)))*Csc[e + f*x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{EqQ}[a^2 - b^2, 0]$
4567.  $\text{Int}[\csc[(e_.) + (f_.)(x_.)] * ((A_.) + \csc[(e_.) + (f_.)(x_.)]^2 * (C_.) * (\csc[(e_.) + (f_.)(x_.)](b_.) + (a_.))^{(m)}, x\_Symbol] \rightarrow \text{Simp}[(-A + C)*Cot[e + f*x]*Csc[e + f*x] * ((a + b*Csc[e + f*x])^m / (f*(2*m + 1))), x] - \text{Simp}[1/(a*b*(2*m + 1)) \text{Int}[Csc[e + f*x] * (a + b*Csc[e + f*x])^{(m + 1)} * \text{Simp}[(-b)*C - 2*A*b*(m + 1) + a*(A*(m + 2) - C*(m - 1)))*Csc[e + f*x], x], x] /; \text{FreeQ}\{a, b, e, f, A, C\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{EqQ}[a^2 - b^2, 0]$
4568.  $\text{Int}[\csc[(e_.) + (f_.)(x_.)] * ((A_.) + \csc[(e_.) + (f_.)(x_.)](B_.) + \csc[(e_.) + (f_.)(x_.)]^2 * (C_.) * (\csc[(e_.) + (f_.)(x_.)](b_.) + (a_.))^{(m)}, x\_Symbol] \rightarrow \text{Simp}[(-A*b^2 - a*b*B + a^2*C)*Cot[e + f*x] * ((a + b*Csc[e + f*x])^{(m + 1)} / (b*f*(m + 1)*(a^2 - b^2))), x] + \text{Simp}[1/(b*(m + 1)*(a^2 - b^2)) \text{Int}[Csc[e + f*x] * (a + b*Csc[e + f*x])^{(m + 1)} * \text{Simp}[a*B - b*C - 2*A*b*(m + 1) - (b*B*(m + 2) - a*(A*(m + 2) - C*(m - 1)))*Csc[e + f*x], x], x] /; \text{FreeQ}\{a, b, e, f, A, B, C\}, x] \&\& \text{LtQ}[m, -1] \&\& \text{EqQ}[a^2 - b^2, 0]$

- $$p[b*(a*A - b*B + a*C)*(m + 1) - (A*b^2 - a*b*B + a^2*C + b*(A*b - a*B + b*C))*(m + 1)]*Csc[e + f*x], x], x] /; FreeQ[\{a, b, e, f, A, B, C\}, x] \&\& LtQ[m, -1] \&\& NeQ[a^2 - b^2, 0]$$
4569. 
$$\text{Int}[csc[(e_.) + (f_.)*(x_.)]*((A_.) + csc[(e_.) + (f_.)*(x_.)]^2*(C_.))* (csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_)}, x\_Symbol] \rightarrow \text{Simp}[(-(A*b^2 + a^2*C))*Cot[e + f*x]*((a + b*Csc[e + f*x])^{(m + 1)})/(b*f*(m + 1)*(a^2 - b^2)), x] + \text{Simp}[1/(b*(m + 1)*(a^2 - b^2)) \text{Int}[Csc[e + f*x]*(a + b*Csc[e + f*x])^{(m + 1)}*Simp[a*b*(A + C)*(m + 1) - (A*b^2 + a^2*C + b*(A*b + b*C))*(m + 1)]*Csc[e + f*x], x], x] /; FreeQ[\{a, b, e, f, A, C\}, x] \&\& LtQ[m, -1] \&\& NeQ[a^2 - b^2, 0]$$
4570. 
$$\text{Int}[csc[(e_.) + (f_.)*(x_.)]*((A_.) + csc[(e_.) + (f_.)*(x_.)]*(B_.) + csc[(e_.) + (f_.)*(x_.)]^2*(C_.))* (csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_)}, x\_Symbol] \rightarrow \text{Simp}[(-C)*Cot[e + f*x]*((a + b*Csc[e + f*x])^{(m + 1)})/(b*f*(m + 2)), x] + \text{Simp}[1/(b*(m + 2)) \text{Int}[Csc[e + f*x]*(a + b*Csc[e + f*x])^m*Simp[b*A*(m + 2) + b*C*(m + 1) + (b*B*(m + 2) - a*C)*Csc[e + f*x], x], x], x] /; FreeQ[\{a, b, e, f, A, B, C, m\}, x] \&\& !LtQ[m, -1]$$
4571. 
$$\text{Int}[csc[(e_.) + (f_.)*(x_.)]*((A_.) + csc[(e_.) + (f_.)*(x_.)]^2*(C_.))* (csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_)}, x\_Symbol] \rightarrow \text{Simp}[(-C)*Cot[e + f*x]*((a + b*Csc[e + f*x])^{(m + 1)})/(b*f*(m + 2)), x] + \text{Simp}[1/(b*(m + 2)) \text{Int}[Csc[e + f*x]*(a + b*Csc[e + f*x])^m*Simp[b*A*(m + 2) + b*C*(m + 1) - a*C*Csc[e + f*x], x], x], x] /; FreeQ[\{a, b, e, f, A, C, m\}, x] \&\& !LtQ[m, -1]$$
4572. 
$$\text{Int}[((A_.) + csc[(e_.) + (f_.)*(x_.)]*(B_.) + csc[(e_.) + (f_.)*(x_.)]^2*(C_.))* (csc[(e_.) + (f_.)*(x_.)]*(d_.))^{(n_)}*(csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_)}, x\_Symbol] \rightarrow \text{Simp}[(-(a*A - b*B + a*C))*Cot[e + f*x]*(a + b*Csc[e + f*x])^m*((d*Csc[e + f*x])^n/(a*f*(2*m + 1))), x] - \text{Simp}[1/(a*b*(2*m + 1)) \text{Int}[(a + b*Csc[e + f*x])^{(m + 1)}*(d*Csc[e + f*x])^n*Simp[a*B*n - b*C*n - A*b*(2*m + n + 1) - (b*B*(m + n + 1) - a*(A*(m + n + 1) - C*(m - n)))*Csc[e + f*x], x], x], x] /; FreeQ[\{a, b, d, e, f, A, B, C, n\}, x] \&\& EqQ[a^2 - b^2, 0] \&\& LtQ[m, -2^{(-1)}]$$

4573.  $\text{Int}[\left((A_{\cdot}) + \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2(C_{\cdot})\right) \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (d_{\cdot})\right)^{n_{\cdot}} \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (b_{\cdot}) + (a_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[(-a) \cdot (A + C) \cdot \text{Cot}[e + f \cdot x] \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot \left(\frac{d \cdot \text{Csc}[e + f \cdot x]}{f}\right)^n / (a \cdot f \cdot (2 \cdot m + 1)), x] + \text{Simp}[1 / (a \cdot b \cdot (2 \cdot m + 1)) \text{Int}[(a + b \cdot \text{Csc}[e + f \cdot x])^{m+1} \cdot (d \cdot \text{Csc}[e + f \cdot x])^n \cdot \text{Simp}[b \cdot C \cdot n + A \cdot b \cdot (2 \cdot m + n + 1) - (a \cdot (A \cdot (m + n + 1) - C \cdot (m - n))) \cdot \text{Csc}[e + f \cdot x], x], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, C, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -2^{(-1)}]$
4574.  $\text{Int}[\left((A_{\cdot}) + \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (B_{\cdot}) + \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2 \cdot (C_{\cdot})\right) \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (d_{\cdot})\right)^{n_{\cdot}} \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (b_{\cdot}) + (a_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[A \cdot \text{Cot}[e + f \cdot x] \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot \left(\frac{d \cdot \text{Csc}[e + f \cdot x]}{f}\right)^n / (f \cdot n), x] - \text{Simp}[1 / (b \cdot d \cdot n) \text{Int}[(a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot (d \cdot \text{Csc}[e + f \cdot x])^{n+1} \cdot \text{Simp}[a \cdot A \cdot m - b \cdot B \cdot n - b \cdot (A \cdot (m + n + 1) + C \cdot n) \cdot \text{Csc}[e + f \cdot x], x], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, C, m\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}] \&\& (\text{LtQ}[n, -2^{(-1)}] || \text{EqQ}[m + n + 1, 0])$
4575.  $\text{Int}[\left((A_{\cdot}) + \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2 \cdot (C_{\cdot})\right) \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (d_{\cdot})\right)^{n_{\cdot}} \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (b_{\cdot}) + (a_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[A \cdot \text{Cot}[e + f \cdot x] \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot \left(\frac{d \cdot \text{Csc}[e + f \cdot x]}{f}\right)^n / (f \cdot n), x] - \text{Simp}[1 / (b \cdot d \cdot n) \text{Int}[(a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot (d \cdot \text{Csc}[e + f \cdot x])^{n+1} \cdot \text{Simp}[a \cdot A \cdot m - b \cdot (A \cdot (m + n + 1) + C \cdot n) \cdot \text{Csc}[e + f \cdot x], x], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, C, m\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}] \&\& (\text{LtQ}[n, -2^{(-1)}] || \text{EqQ}[m + n + 1, 0])$
4576.  $\text{Int}[\left((A_{\cdot}) + \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (B_{\cdot}) + \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2 \cdot (C_{\cdot})\right) \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (d_{\cdot})\right)^{n_{\cdot}} \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (b_{\cdot}) + (a_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[(-C) \cdot \text{Cot}[e + f \cdot x] \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot \left(\frac{d \cdot \text{Csc}[e + f \cdot x]}{f \cdot (m + n + 1)}\right)^n / (b \cdot (m + n + 1)) \text{Int}[(a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot (d \cdot \text{Csc}[e + f \cdot x])^n \cdot \text{Simp}[A \cdot b \cdot (m + n + 1) + b \cdot C \cdot n + (a \cdot C \cdot m + b \cdot B \cdot (m + n + 1)) \cdot \text{Csc}[e + f \cdot x], x], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, C, m, n\}, x] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}] \&\& !\text{LtQ}[n, -2^{(-1)}] \&\& \text{NeQ}[m + n + 1, 0]$
4577.  $\text{Int}[\left((A_{\cdot}) + \csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})]^2 \cdot (C_{\cdot})\right) \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (d_{\cdot})\right)^{n_{\cdot}} \cdot \left(\csc[(e_{\cdot}) + (f_{\cdot})(x_{\cdot})] \cdot (b_{\cdot}) + (a_{\cdot})\right)^{m_{\cdot}}, x_{\text{Symbol}}] \rightarrow$   
 $\text{Simp}[(-C) \cdot \text{Cot}[e + f \cdot x] \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^m \cdot \left(\frac{d \cdot \text{Csc}[e + f \cdot x]}{f}\right)^n / (f \cdot n), x]$

- $(m + n + 1)))$ ,  $x]$  +  $\text{Simp}[1/(b*(m + n + 1)) \text{ Int}[(a + b*\text{Csc}[e + f*x])^m * (d*\text{Csc}[e + f*x])^n * \text{Simp}[A*b*(m + n + 1) + b*C*n + a*C*m*\text{Csc}[e + f*x], x], x], x] /;$   $\text{FreeQ}\{a, b, d, e, f, A, C, m, n\}, x\} \&\& \text{EqQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -2^{(-1)}] \&\& !\text{LtQ}[n, -2^{(-1)}] \&\& \text{NeQ}[m + n + 1, 0]$
4578.  $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]^2*((A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.))*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \text{ :> } \text{Simp}[a*(A*b^2 - a*b*B + a^2*C)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)})/(b^2*f*(m + 1)*(a^2 - b^2)), x] - \text{Simp}[1/(b^2*(m + 1)*(a^2 - b^2)) \text{ Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}]*\text{Simp}[b*(m + 1)*((-a)*(b*B - a*C) + A*b^2) + (b*B*(a^2 + b^2*(m + 1)) - a*(A*b^2*(m + 2) + C*(a^2 + b^2*(m + 1)))]*\text{Csc}[e + f*x] - b*C*(m + 1)*(a^2 - b^2)*\text{Csc}[e + f*x]^2, x], x], x] /;$   $\text{FreeQ}\{a, b, e, f, A, B, C\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
4579.  $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]^2*((A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.))*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \text{ :> } \text{Simp}[a*(A*b^2 + a^2*C)*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)})/(b^2*f*(m + 1)*(a^2 - b^2)), x] - \text{Simp}[1/(b^2*(m + 1)*(a^2 - b^2)) \text{ Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^{(m + 1)}]*\text{Simp}[b*(m + 1)*(a^2*C + A*b^2) - a*(A*b^2*(m + 2) + C*(a^2 + b^2*(m + 1)))]*\text{Csc}[e + f*x] - b*C*(m + 1)*(a^2 - b^2)*\text{Csc}[e + f*x]^2, x], x], x] /;$   $\text{FreeQ}\{a, b, e, f, A, C\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1]$
4580.  $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]^2*((A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.))*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \text{ :> } \text{Simp}[(-C)*\text{Csc}[e + f*x]*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)})/(b*f*(m + 3)), x] + \text{Simp}[1/(b*(m + 3)) \text{ Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^m*\text{Simp}[a*C + b*(C*(m + 2) + A*(m + 3))*\text{Csc}[e + f*x] - (2*a*C - b*B*(m + 3))*\text{Csc}[e + f*x]^2, x], x], x] /;$   $\text{FreeQ}\{a, b, e, f, A, B, C, m\}, x\} \&\& \text{NeQ}[a^2 - b^2, 0] \&\& !\text{LtQ}[m, -1]$
4581.  $\text{Int}[\text{csc}[(e_.) + (f_.)*(x_.)]^2*((A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.))*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x\_Symbol] \text{ :> } \text{Simp}[(-C)*\text{Csc}[e + f*x]*\text{Cot}[e + f*x]*((a + b*\text{Csc}[e + f*x])^{(m + 1)})/(b*f*(m + 3)), x] + \text{Simp}[1/(b*(m + 3)) \text{ Int}[\text{Csc}[e + f*x]*(a + b*\text{Csc}[e + f*x])^m*\text{Simp}[a*C + b*(C*(m + 2) + A*(m + 3))*\text{Csc}[e + f*x] - 2*a*C*\text{Csc}[e + f*x]^2$

- , x], x], x] /; FreeQ[{a, b, e, f, A, C, m}, x] && NeQ[a^2 - b^2, 0] && !LtQ[m, -1]
4582. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])\*(B\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^n\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_.))^m, x\_Symbol] := Simp[A\*Cot[e + f\*x]\*(a + b\*Csc[e + f\*x])^m\*((d\*Csc[e + f\*x])^n/(f\*n)), x] - Simp[1/(d\*n) Int[(a + b\*Csc[e + f\*x])^(m - 1)\*(d\*Csc[e + f\*x])^(n + 1)\*Simp[A\*b\*m - a\*B\*n - (b\*B\*n + a\*(C\*n + A\*(n + 1)))\*Csc[e + f\*x] - b\*(C\*n + A\*(m + n + 1))\*Csc[e + f\*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, B, C}, x] && NeQ[a^2 - b^2, 0] && GtQ[m, 0] && LeQ[n, -1]
4583. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])^2\*(C\_.))\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^n\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_.))^m, x\_Symbol] := Simp[A\*Cot[e + f\*x]\*(a + b\*Csc[e + f\*x])^m\*((d\*Csc[e + f\*x])^n/(f\*n)), x] - Simp[1/(d\*n) Int[(a + b\*Csc[e + f\*x])^(m - 1)\*(d\*Csc[e + f\*x])^(n + 1)\*Simp[A\*b\*m - a\*(C\*n + A\*(n + 1))\*Csc[e + f\*x] - b\*(C\*n + A\*(m + n + 1))\*Csc[e + f\*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, C}, x] && NeQ[a^2 - b^2, 0] && GtQ[m, 0] && LeQ[n, -1]
4584. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])\*(B\_.) + csc[(e\_.) + (f\_.)\*(x\_)]^2\*(C\_.))\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^n\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_.))^m, x\_Symbol] := Simp[(-C)\*Cot[e + f\*x]\*(a + b\*Csc[e + f\*x])^m\*((d\*Csc[e + f\*x])^n/(f\*(m + n + 1))), x] + Simp[1/(m + n + 1) Int[(a + b\*Csc[e + f\*x])^(m - 1)\*(d\*Csc[e + f\*x])^n\*Simp[a\*A\*(m + n + 1) + a\*C\*n + ((A\*b + a\*B)\*(m + n + 1) + b\*C\*(m + n))\*Csc[e + f\*x] + (b\*B\*(m + n + 1) + a\*C\*m)\*Csc[e + f\*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, B, C, n}, x] && NeQ[a^2 - b^2, 0] && GtQ[m, 0] && !LeQ[n, -1]
4585. Int[((A\_.) + csc[(e\_.) + (f\_.)\*(x\_)])^2\*(C\_.))\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^n\*(csc[(e\_.) + (f\_.)\*(x\_)]\*(b\_.) + (a\_.))^m, x\_Symbol] := Simp[(-C)\*Cot[e + f\*x]\*(a + b\*Csc[e + f\*x])^m\*((d\*Csc[e + f\*x])^n/(f\*(m + n + 1))), x] + Simp[1/(m + n + 1) Int[(a + b\*Csc[e + f\*x])^(m - 1)\*(d\*Csc[e + f\*x])^n\*Simp[a\*A\*(m + n + 1) + a\*C\*n + b\*(A\*(m + n + 1) + C\*(m + n))\*Csc[e + f\*x] + a\*C\*m\*Csc[e + f\*x]^2, x], x], x] /; FreeQ[{a, b, d, e, f, A, C, n}, x] && NeQ[a^2 - b^2, 0] && GtQ[m, 0] && !L



eQ[n, -1]

4586.  $\text{Int}[\left((A_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]\right)(B_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]^2 (C_{.}) * (\csc[(e_{.}) + (f_{.})(x_{.})] * (d_{.}))^{(n)} * (\csc[(e_{.}) + (f_{.})(x_{.})] * (b_{.}) + (a_{.}))^{(m)}, x\_Symbol] \rightarrow \text{Simp}[(-d) * (A * b^2 - a * b * B + a^2 * C) * \text{Cot}[e + f * x] * (a + b * \text{Csc}[e + f * x])^{(m + 1)} * ((d * \text{Csc}[e + f * x])^{(n - 1)} / (b * f * (a^2 - b^2) * (m + 1))), x] + \text{Simp}[d / (b * (a^2 - b^2) * (m + 1)) \text{Int}[(a + b * \text{Csc}[e + f * x])^{(m + 1)} * (d * \text{Csc}[e + f * x])^{(n - 1)} * \text{Simp}[A * b^2 * (n - 1) - a * (b * B - a * C) * (n - 1) + b * (a * A - b * B + a * C) * (m + 1) * \text{Csc}[e + f * x] - (b * (A * b - a * B) * (m + n + 1) + C * (a^2 * n + b^2 * (m + 1))) * \text{Csc}[e + f * x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0]$
4587.  $\text{Int}[\left((A_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]\right)^2 (C_{.}) * (\csc[(e_{.}) + (f_{.})(x_{.})] * (d_{.}))^{(n)} * (\csc[(e_{.}) + (f_{.})(x_{.})] * (b_{.}) + (a_{.}))^{(m)}, x\_Symbol] \rightarrow \text{Simp}[(-d) * (A * b^2 + a^2 * C) * \text{Cot}[e + f * x] * (a + b * \text{Csc}[e + f * x])^{(m + 1)} * ((d * \text{Csc}[e + f * x])^{(n - 1)} / (b * f * (a^2 - b^2) * (m + 1))), x] + \text{Simp}[d / (b * (a^2 - b^2) * (m + 1)) \text{Int}[(a + b * \text{Csc}[e + f * x])^{(m + 1)} * (d * \text{Csc}[e + f * x])^{(n - 1)} * \text{Simp}[A * b^2 * (n - 1) + a^2 * C * (n - 1) + a * b * (A + C) * (m + 1) * \text{Csc}[e + f * x] - (A * b^2 * (m + n + 1) + C * (a^2 * n + b^2 * (m + 1))) * \text{Csc}[e + f * x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0]$
4588.  $\text{Int}[\left((A_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]\right)(B_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]^2 (C_{.}) * (\csc[(e_{.}) + (f_{.})(x_{.})] * (d_{.}))^{(n)} * (\csc[(e_{.}) + (f_{.})(x_{.})] * (b_{.}) + (a_{.}))^{(m)}, x\_Symbol] \rightarrow \text{Simp}[(A * b^2 - a * b * B + a^2 * C) * \text{Cot}[e + f * x] * (a + b * \text{Csc}[e + f * x])^{(m + 1)} * ((d * \text{Csc}[e + f * x])^n / (a * f * (m + 1) * (a^2 - b^2))), x] + \text{Simp}[1 / (a * (m + 1) * (a^2 - b^2)) \text{Int}[(a + b * \text{Csc}[e + f * x])^{(m + 1)} * (d * \text{Csc}[e + f * x])^n * \text{Simp}[a * (a * A - b * B + a * C) * (m + 1) - (A * b^2 - a * b * B + a^2 * C) * (m + n + 1) - a * (A * b - a * B + b * C) * (m + 1) * \text{Csc}[e + f * x] + (A * b^2 - a * b * B + a^2 * C) * (m + n + 2) * \text{Csc}[e + f * x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, B, C, n\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& !(ILtQ[m + 1/2, 0] \&\& ILtQ[n, 0])$
4589.  $\text{Int}[\left((A_{.}) + \csc[(e_{.}) + (f_{.})(x_{.})]\right)^2 (C_{.}) * (\csc[(e_{.}) + (f_{.})(x_{.})] * (d_{.}))^{(n)} * (\csc[(e_{.}) + (f_{.})(x_{.})] * (b_{.}) + (a_{.}))^{(m)}, x\_Symbol] \rightarrow \text{Simp}[(A * b^2 + a^2 * C) * \text{Cot}[e + f * x] * (a + b * \text{Csc}[e + f * x])^{(m + 1)} * ((d * \text{Csc}[e + f * x])^n / (a * f * (m + 1) * (a^2 - b^2))), x] + \text{Simp}[d / (b * (a^2 - b^2) * (m + 1)) \text{Int}[(a + b * \text{Csc}[e + f * x])^{(m + 1)} * (d * \text{Csc}[e + f * x])^n * \text{Simp}[A * b^2 * (n - 1) + a^2 * C * (n - 1) + a * b * (A + C) * (m + 1) * \text{Csc}[e + f * x] - (A * b^2 * (m + n + 1) + C * (a^2 * n + b^2 * (m + 1))) * \text{Csc}[e + f * x]^2, x], x], x] /; \text{FreeQ}\{a, b, d, e, f, A, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0]$

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c[e + f*x]^n/(a*f*(m + 1)*(a^2 - b^2)), x] + Simp[1/(a*(m + 1)*(a^2
- b^2)) Int[(a + b*Csc[e + f*x])^(m + 1)*(d*Csc[e + f*x])^n*Simp[a^2
*(A + C)*(m + 1) - (A*b^2 + a^2*C)*(m + n + 1) - a*b*(A + C)*(m + 1)*C
sc[e + f*x] + (A*b^2 + a^2*C)*(m + n + 2)*Csc[e + f*x]^2, x], x], x] /
; FreeQ[{a, b, d, e, f, A, C, n}, x] && NeQ[a^2 - b^2, 0] && LtQ[m, -1
] && !(ILtQ[m + 1/2, 0] && ILtQ[n, 0])

4590. Int[((A_.) + csc[(e_.) + (f_.)*(x_.)]*(B_.) + csc[(e_.) + (f_.)*(x_.)]^2
*(C_.))*(csc[(e_.) + (f_.)*(x_.)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_.)]*
(b_.) + (a_))^(m_), x_Symbol] := Simp[(-C)*d*Cot[e + f*x]*(a + b*Csc[e
+ f*x])^(m + 1)*((d*Csc[e + f*x])^(n - 1)/(b*f*(m + n + 1))), x] + Si
mp[d/(b*(m + n + 1)) Int[(a + b*Csc[e + f*x])^m*(d*Csc[e + f*x])^(n
- 1)*Simp[a*C*(n - 1) + (A*b*(m + n + 1) + b*C*(m + n))*Csc[e + f*x] +
(b*B*(m + n + 1) - a*C*n)*Csc[e + f*x]^2, x], x], x] /; FreeQ[{a, b,
d, e, f, A, B, C, m}, x] && NeQ[a^2 - b^2, 0] && GtQ[n, 0]

4591. Int[((A_.) + csc[(e_.) + (f_.)*(x_.)]^2*(C_.))*(csc[(e_.) + (f_.)*(x_.)]
*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_))^(m_), x_Symbol] :=
Simp[(-C)*d*Cot[e + f*x]*(a + b*Csc[e + f*x])^(m + 1)*((d*Csc[e + f*x]
)^(n - 1)/(b*f*(m + n + 1))), x] + Simp[d/(b*(m + n + 1)) Int[(a +
b*Csc[e + f*x])^m*(d*Csc[e + f*x])^(n - 1)*Simp[a*C*(n - 1) + (A*b*(m
+ n + 1) + b*C*(m + n))*Csc[e + f*x] - a*C*n*Csc[e + f*x]^2, x], x], x]
/; FreeQ[{a, b, d, e, f, A, C, m}, x] && NeQ[a^2 - b^2, 0] && GtQ[n,
0]

4592. Int[((A_.) + csc[(e_.) + (f_.)*(x_.)]*(B_.) + csc[(e_.) + (f_.)*(x_.)]^2
*(C_.))*(csc[(e_.) + (f_.)*(x_.)]*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_.)]*
(b_.) + (a_))^(m_), x_Symbol] := Simp[A*Cot[e + f*x]*(a + b*Csc[e + f*
x])^(m + 1)*((d*Csc[e + f*x])^n/(a*f*n)), x] + Simp[1/(a*d*n) Int[(a
+ b*Csc[e + f*x])^m*(d*Csc[e + f*x])^(n + 1)*Simp[a*B*n - A*b*(m + n
+ 1) + a*(A + A*n + C*n)*Csc[e + f*x] + A*b*(m + n + 2)*Csc[e + f*x]^2
, x], x], x] /; FreeQ[{a, b, d, e, f, A, B, C, m}, x] && NeQ[a^2 - b^2
, 0] && LeQ[n, -1]

4593. Int[((A_.) + csc[(e_.) + (f_.)*(x_.)]^2*(C_.))*(csc[(e_.) + (f_.)*(x_.)]
*(d_.))^(n_)*(csc[(e_.) + (f_.)*(x_.)]*(b_.) + (a_))^(m_), x_Symbol] :=
Simp[A*Cot[e + f*x]*(a + b*Csc[e + f*x])^(m + 1)*((d*Csc[e + f*x])^n/

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- $(a*f*n)), x] + \text{Simp}[1/(a*d*n) \quad \text{Int}[(a + b*\text{Csc}[e + f*x])^m*(d*\text{Csc}[e + f*x])^{(n + 1)}*\text{Simp}[(-A)*b*(m + n + 1) + a*(A + A*n + C*n)*\text{Csc}[e + f*x] + A*b*(m + n + 2)*\text{Csc}[e + f*x]^2, x], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, C, m\}, x] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{LeQ}[n, -1]$
4594. $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))), x_Symbol] \rightarrow \text{Simp}[(A*b^2 - a*b*B + a^2*C)/(a^2*d^2) \text{Int}[(d*\text{Csc}[e + f*x])^{(3/2)}/(a + b*\text{Csc}[e + f*x]), x], x] + \text{Simp}[1/a^2 \text{Int}[(a*A - (A*b - a*B)*\text{Csc}[e + f*x])/ \text{Sqrt}[d*\text{Csc}[e + f*x]], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4595. $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))), x_Symbol] \rightarrow \text{Simp}[(A*b^2 + a^2*C)/(a^2*d^2) \text{Int}[(d*\text{Csc}[e + f*x])^{(3/2)}/(a + b*\text{Csc}[e + f*x]), x], x] + \text{Simp}[1/a^2 \text{Int}[(a*A - A*b*\text{Csc}[e + f*x])/ \text{Sqrt}[d*\text{Csc}[e + f*x]], x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4596. $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]), x_Symbol] \rightarrow \text{Simp}[C/d^2 \text{Int}[(d*\text{Csc}[e + f*x])^{(3/2)}/ \text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Int}[(A + B*\text{Csc}[e + f*x])/(\text{Sqrt}[d*\text{Csc}[e + f*x]]*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]), x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4597. $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]/(\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.)]*\text{Sqrt}[\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.)]), x_Symbol] \rightarrow \text{Simp}[C/d^2 \text{Int}[(d*\text{Csc}[e + f*x])^{(3/2)}/ \text{Sqrt}[a + b*\text{Csc}[e + f*x]], x], x] + \text{Simp}[A \text{Int}[1/(\text{Sqrt}[d*\text{Csc}[e + f*x]]*\text{Sqrt}[a + b*\text{Csc}[e + f*x]]), x], x] /; \text{FreeQ}[\{a, b, d, e, f, A, C\}, x] \&\& \text{NeQ}[a^2 - b^2, 0]$
4598. $\text{Int}[(A_.) + \text{csc}[(e_.) + (f_.)*(x_.)]*(B_.) + \text{csc}[(e_.) + (f_.)*(x_.)]^2*(C_.)]*(\text{csc}[(e_.) + (f_.)*(x_.)]*(d_.))^{(n_.)}*(\text{csc}[(e_.) + (f_.)*(x_.)]*(b_.) + (a_.))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(d*\text{Csc}[e + f*x])^n*(a + b*\text{Csc}[e + f*x])^m*(A + B*\text{Csc}[e + f*x] + C*\text{Csc}[e + f*x]^2), x] /; \text{FreeQ}[\{a, b, d, e, f, A, B, C, m, n\}, x]$

4599. $\text{Int}[(A_.) + \csc[(e_.) + (f_.)*(x_)]^2*(C_.)*(\csc[(e_.) + (f_.)*(x_)]*(d_.)^n*(\csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_))^{m_}), x_Symbol]$
 $\text{:> Unintegrable}[(d*\text{Csc}[e + f*x])^n*(a + b*\text{Csc}[e + f*x])^m*(A + C*\text{Csc}[e + f*x]^2), x] /;$ $\text{FreeQ}\{a, b, d, e, f, A, C, m, n\}, x]$
4600. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(d_.)^n*((a_.) + (b_.)*\sec[(e_.) + (f_.)*(x_)] + (C_.)*\sec[(e_.) + (f_.)*(x_)]^2), x_Symbol]$ $\text{:> Simp}[d^{m+2} \text{Int}[(b + a*\cos[e + f*x])^m*(d*\cos[e + f*x])^{n-m-2}*(C + B*\cos[e + f*x] + A*\cos[e + f*x]^2), x], x] /;$ $\text{FreeQ}\{a, b, d, e, f, A, B, C, n\}, x]$ $\&\& \text{!IntegerQ}[n]$ $\&\& \text{IntegerQ}[m]$
4601. $\text{Int}[(A_.) + \csc[(e_.) + (f_.)*(x_)]*(B_.) + \csc[(e_.) + (f_.)*(x_)]^2*(C_.)*(\csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_))^{m_})*((d_.)*\sin[(e_.) + (f_.)*(x_)]^n), x_Symbol]$ $\text{:> Simp}[d^{m+2} \text{Int}[(b + a*\sin[e + f*x])^m*(d*\sin[e + f*x])^{n-m-2}*(C + B*\sin[e + f*x] + A*\sin[e + f*x]^2), x], x] /;$ $\text{FreeQ}\{a, b, d, e, f, A, B, C, n\}, x]$ $\&\& \text{!IntegerQ}[n]$ $\&\& \text{IntegerQ}[m]$
4602. $\text{Int}[(\cos[(e_.) + (f_.)*(x_)]*(d_.)^n*((a_.) + (b_.)*\sec[(e_.) + (f_.)*(x_)]^m*((A_.) + (C_.)*\sec[(e_.) + (f_.)*(x_)]^2), x_Symbol]$ $\text{:> Simp}[d^{m+2} \text{Int}[(b + a*\cos[e + f*x])^m*(d*\cos[e + f*x])^{n-m-2}*(C + A*\cos[e + f*x]^2), x], x] /;$ $\text{FreeQ}\{a, b, d, e, f, A, C, n\}, x]$ $\&\& \text{!IntegerQ}[n]$ $\&\& \text{IntegerQ}[m]$
4603. $\text{Int}[(A_.) + \csc[(e_.) + (f_.)*(x_)]^2*(C_.)*(\csc[(e_.) + (f_.)*(x_)]*(b_.) + (a_))^{m_})*((d_.)*\sin[(e_.) + (f_.)*(x_)]^n), x_Symbol]$ $\text{:> Simp}[d^{m+2} \text{Int}[(b + a*\sin[e + f*x])^m*(d*\sin[e + f*x])^{n-m-2}*(C + A*\sin[e + f*x]^2), x], x] /;$ $\text{FreeQ}\{a, b, d, e, f, A, C, n\}, x]$ $\&\& \text{!IntegerQ}[n]$ $\&\& \text{IntegerQ}[m]$
4604. $\text{Int}[(c_.)*((d_.)*\sec[(e_.) + (f_.)*(x_)]^p)^n*((a_.) + (b_.)*\sec[(e_.) + (f_.)*(x_)]^m*((A_.) + (B_.)*\sec[(e_.) + (f_.)*(x_)] + (C_.)*\sec[(e_.) + (f_.)*(x_)]^2), x_Symbol]$ $\text{:> Simp}[c^{\text{IntPart}[n]}*((c*(d*\sec[e + f*x])^p)^{\text{FracPart}[n]} / (d*\sec[e + f*x])^{p*\text{FracPart}[n]}) \text{Int}[(a + b*\sec[e + f*x])^m*(d*\sec[e + f*x])^{n*p}*(A + B*\sec[e + f*x] + C$

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*Sec[e + f*x]^2), x], x] /; FreeQ[{a, b, c, d, e, f, A, B, C, m, n, p}
, x] && !IntegerQ[n]

4605. Int[((A_) + csc[(e_) + (f_)*(x_)])*(B_) + csc[(e_) + (f_)*(x_)]^2
(C_))((c_)*(csc[(e_) + (f_)*(x_)]*(d_))^(p_))^(n_)*(csc[(e_) +
(f_)*(x_)]*(b_) + (a_))^(m_), x_Symbol] := Simp[c^IntPart[n]*((c*(
d*Csc[e + f*x])^p)^FracPart[n]/(d*Csc[e + f*x])^(p*FracPart[n])) Int
[(a + b*Csc[e + f*x])^m*(d*Csc[e + f*x])^(n*p)*(A + B*Csc[e + f*x] + C
*Csc[e + f*x]^2), x], x] /; FreeQ[{a, b, c, d, e, f, A, B, C, m, n, p}
, x] && !IntegerQ[n]

4606. Int[((c_)*((d_)*sec[(e_) + (f_)*(x_)])^(p_))^(n_)*((a_) + (b_)*se
c[(e_) + (f_)*(x_)]^(m_))*((A_) + (C_)*sec[(e_) + (f_)*(x_)]^2)
, x_Symbol] := Simp[c^IntPart[n]*((c*(d*Sec[e + f*x])^p)^FracPart[n]/(
d*Sec[e + f*x])^(p*FracPart[n])) Int[(a + b*Sec[e + f*x])^m*(d*Sec[e
+ f*x])^(n*p)*(A + C*Sec[e + f*x]^2), x], x] /; FreeQ[{a, b, c, d, e,
f, A, C, m, n, p}, x] && !IntegerQ[n]

4607. Int[((A_) + csc[(e_) + (f_)*(x_)]^2*(C_))*((c_)*(csc[(e_) + (f_
)*(x_)]*(d_))^(p_))^(n_)*(csc[(e_) + (f_)*(x_)]*(b_) + (a_))^(m_)
, x_Symbol] := Simp[c^IntPart[n]*((c*(d*Csc[e + f*x])^p)^FracPart[n]/(
d*Csc[e + f*x])^(p*FracPart[n])) Int[(a + b*Csc[e + f*x])^m*(d*Csc[e
+ f*x])^(n*p)*(A + C*Csc[e + f*x]^2), x], x] /; FreeQ[{a, b, c, d, e,
f, A, C, m, n, p}, x] && !IntegerQ[n]

4608. Int[(u_)*((a_) + (b_)*sec[(e_) + (f_)*(x_)]^2)^(p_), x_Symbol] :=
Simp[b^p Int[ActivateTrig[u*tan[e + f*x]^(2*p)], x], x] /; FreeQ[{a,
b, e, f, p}, x] && EqQ[a + b, 0] && IntegerQ[p]

4609. Int[(u_)*((a_) + (b_)*sec[(e_) + (f_)*(x_)]^2)^(p_), x_Symbol] :=
Int[ActivateTrig[u*(b*tan[e + f*x]^2)^p], x] /; FreeQ[{a, b, e, f, p},
x] && EqQ[a + b, 0]

4610. Int[((b_)*sec[(e_) + (f_)*(x_)]^2)^(p_), x_Symbol] := With[{ff = Fr
eeFactors[Tan[e + f*x], x]}, Simp[b*(ff/f) Subst[Int[(b + b*ff^2*x^2
)^(p - 1), x], x, Tan[e + f*x]/ff], x] /; FreeQ[{b, e, f, p}, x] &&

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!IntegerQ[p]

4611.  $\text{Int}[(b\_.)*((c\_.)*\text{sec}[e\_.) + (f\_.)*(x\_)]^{(n\_)}]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[b^{\text{IntPart}[p]}*((b*(c*\text{Sec}[e + f*x])^n)^{\text{FracPart}[p]}/(c*\text{Sec}[e + f*x])^{(n*\text{FracPart}[p])}) \text{Int}[(c*\text{Sec}[e + f*x])^{(n*p)}, x], x] /; \text{FreeQ}[\{b, c, e, f, n, p\}, x] \&\& \text{!IntegerQ}[p]$
4612.  $\text{Int}[(b\_.)*\text{sec}[e\_.) + (f\_.)*(x\_)]^2]^{(p\_.)}*\text{tan}[e\_.) + (f\_.)*(x\_)]^{(m\_.)}, x\_Symbol] \rightarrow \text{Simp}[b/(2*f) \text{Subst}[\text{Int}[(-1 + x)^{((m - 1)/2)*(b*x)^{(p - 1)}, x], x, \text{Sec}[e + f*x]^2], x] /; \text{FreeQ}[\{b, e, f, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{IntegerQ}[(m - 1)/2]$
4613.  $\text{Int}[(u\_.)*((b\_.)*\text{sec}[e\_.) + (f\_.)*(x\_)]^{(n\_)}]^{(p\_)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Sec}[e + f*x], x]\}, \text{Simp}[(b*ff^n)^{\text{IntPart}[p]}*((b*\text{Sec}[e + f*x]^n)^{\text{FracPart}[p]}/(\text{Sec}[e + f*x]/ff)^{(n*\text{FracPart}[p])}) \text{Int}[\text{ActivateTrig}[u]*(\text{Sec}[e + f*x]/ff)^{(n*p)}, x], x]] /; \text{FreeQ}[\{b, e, f, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{IntegerQ}[n] \&\& (\text{EqQ}[u, 1] \|\| \text{MatchQ}[u, ((d\_.)*(\text{trig\_})[e + f*x])^{(m\_.)} /; \text{FreeQ}[\{d, m\}, x] \&\& \text{MemberQ}[\{\sin, \cos, \tan, \cot, \sec, \csc\}, \text{trig}]])$
4614.  $\text{Int}[(u\_.)*((b\_.)*((c\_.)*\text{sec}[e\_.) + (f\_.)*(x\_)]^{(n\_)}]^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[b^{\text{IntPart}[p]}*((b*(c*\text{Sec}[e + f*x])^n)^{\text{FracPart}[p]}/(c*\text{Sec}[e + f*x])^{(n*\text{FracPart}[p])}) \text{Int}[\text{ActivateTrig}[u]*(c*\text{Sec}[e + f*x])^{(n*p)}, x], x] /; \text{FreeQ}[\{b, c, e, f, n, p\}, x] \&\& \text{!IntegerQ}[p] \&\& \text{!IntegerQ}[n] \&\& (\text{EqQ}[u, 1] \|\| \text{MatchQ}[u, ((d\_.)*(\text{trig\_})[e + f*x])^{(m\_.)} /; \text{FreeQ}[\{d, m\}, x] \&\& \text{MemberQ}[\{\sin, \cos, \tan, \cot, \sec, \csc\}, \text{trig}]])$
4615.  $\text{Int}[(a\_.) + (b\_.)*\text{sec}[e\_.) + (f\_.)*(x\_)]^2]^{(-1)}, x\_Symbol] \rightarrow \text{Simp}[x/a, x] - \text{Simp}[b/a \text{Int}[1/(b + a*\text{Cos}[e + f*x]^2), x], x] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{NeQ}[a + b, 0]$
4616.  $\text{Int}[(a\_.) + (b\_.)*\text{sec}[e\_.) + (f\_.)*(x\_)]^2]^{(p\_)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + f*x], x]\}, \text{Simp}[ff/f \text{Subst}[\text{Int}[(a + b + b*ff^2*x^2)^p/(1 + ff^2*x^2), x], x, \text{Tan}[e + f*x]/ff], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{NeQ}[a + b, 0] \&\& \text{NeQ}[p, -1]$

4617.  $\text{Int}[(a_.) + (b_.)\text{sec}[(e_.) + (f_.)x]^4]^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + fx], x]\}, \text{Simp}[ff/f \text{ Subst}[\text{Int}[(a + b + 2*bf^2x^2 + bff^4x^4)^p/(1 + ff^2x^2), x], x, \text{Tan}[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[2*p]$
4618.  $\text{Int}[(a_.) + (b_.)\text{sec}[(e_.) + (f_.)x]^{(n_.)}]^{(p_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + fx], x]\}, \text{Simp}[ff/f \text{ Subst}[\text{Int}[(a + b*(1 + ff^2x^2)^{(n/2)})^p/(1 + ff^2x^2), x], x, \text{Tan}[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[n/2] \&\& \text{IGtQ}[p, -2]$
4619.  $\text{Int}[(a_.) + (b_.)((c_.)\text{sec}[(e_.) + (f_.)x])^{(n_.)}]^{(p_.)}, x\_Symbol] \rightarrow \text{Unintegrable}[(a + b*(c*\text{Sec}[e + fx])^n)^p, x] /; \text{FreeQ}[\{a, b, c, e, f, n, p\}, x]$
4620.  $\text{Int}[(a_.) + (b_.)\text{sec}[(e_.) + (f_.)x]^{(n_.)}]^{(p_.)}\text{sin}[(e_.) + (f_.)x]^{(m_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e + fx], x]\}, \text{Simp}[ff^{(m+1)}/f \text{ Subst}[\text{Int}[x^m*(\text{ExpandToSum}[a + b*(1 + ff^2x^2)^{(n/2)}], x)]^p/(1 + ff^2x^2)^{(m/2+1)}, x], x, \text{Tan}[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, e, f, p\}, x] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[n/2]$
4621.  $\text{Int}[(a_.) + (b_.)\text{sec}[(e_.) + (f_.)x]^{(n_.)}]^{(p_.)}\text{sin}[(e_.) + (f_.)x]^{(m_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Cos}[e + fx], x]\}, \text{Simp}[-ff/f \text{ Subst}[\text{Int}[(1 - ff^2x^2)^{(m-1)/2}*(b + a*(ff*x)^n)^p/(ff*x)^{(n*p)}, x], x, \text{Cos}[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, e, f\}, x] \&\& \text{IntegerQ}[(m-1)/2] \&\& \text{IntegerQ}[n] \&\& \text{IntegerQ}[p]$
4622.  $\text{Int}[(a_.) + (b_.)((c_.)\text{sec}[(e_.) + (f_.)x])^{(n_.)}]^{(p_.)}\text{sin}[(e_.) + (f_.)x]^{(m_.)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Cos}[e + fx], x]\}, \text{Simp}[1/(f*ff^m) \text{ Subst}[\text{Int}[(-1 + ff^2x^2)^{(m-1)/2}*(a + b*(c*ff*x)^n)^p/x^{(m+1)}, x], x, \text{Sec}[e + fx]/ff], x]] /; \text{FreeQ}[\{a, b, c, e, f, n, p\}, x] \&\& \text{IntegerQ}[(m-1)/2] \&\& (\text{GtQ}[m, 0] \parallel \text{EqQ}[n, 2] \parallel \text{EqQ}[n, 4])$
4623.  $\text{Int}[(a_.) + (b_.)((c_.)\text{sec}[(e_.) + (f_.)x])^{(n_.)}]^{(p_.)}((d_.)\text{sin}[(e_.) + (f_.)x]^{(m_.)}), x\_Symbol] \rightarrow \text{Unintegrable}[(a + b*(c*\text{Sec}[e + fx])^n)^p*(d*\text{Sin}[e + fx])^m, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m,$

$n, p\}, x]$

4624.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(d_.))^m*((a_) + (b_.)*\sec[(e_.) + (f_.)(x_)]^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[d^{(n*p)} \text{Int}[(d*\cos[e + f*x])^{(m - n*p)}*(b + a*\cos[e + f*x]^n)^p, x], x] /;$   $\text{FreeQ}\{a, b, d, e, f, m, n, p\}, x\} \&\& \text{!IntegerQ}[m] \&\& \text{IntegersQ}[n, p]$

4625.  $\text{Int}[(\cos[(e_.) + (f_.)(x_)]*(d_.))^m*((a_) + (b_.)*((c_.)*\sec[(e_.) + (f_.)(x_)]^{(n_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(d*\cos[e + f*x])^{\text{FracPart}[m]}*(\sec[e + f*x]/d)^{\text{FracPart}[m]} \text{Int}[(a + b*(c*\sec[e + f*x])^n)^p / (\sec[e + f*x]/d)^m, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x\} \&\& \text{!IntegerQ}[m]$

4626.  $\text{Int}[(a_) + (b_.)*\sec[(e_.) + (f_.)(x_)]^{(n_.)})^{(p_.)}*\tan[(e_.) + (f_.)(x_)]^{(m_.)}, x\_Symbol] \rightarrow \text{Module}\{\{ff = \text{FreeFactors}[\cos[e + f*x], x]\}, \text{Simp}[-(f*ff^{(m + n*p - 1)})^{-1} \text{Subst}[\text{Int}[(1 - ff^2*x^2)^{(m - 1)/2}*(b + a*(ff*x)^n)^p/x^{(m + n*p)}], x], x, \cos[e + f*x]/ff], x]\} /;$   $\text{FreeQ}\{a, b, e, f, n\}, x\} \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{IntegerQ}[n] \&\& \text{IntegerQ}[p]$

4627.  $\text{Int}[(a_) + (b_.)*((c_.)*\sec[(e_.) + (f_.)(x_)]^{(n_.)})^{(p_.)}*\tan[(e_.) + (f_.)(x_)]^{(m_.)}, x\_Symbol] \rightarrow \text{With}\{\{ff = \text{FreeFactors}[\sec[e + f*x], x]\}, \text{Simp}[1/f \text{Subst}[\text{Int}[(-1 + ff^2*x^2)^{(m - 1)/2}*(a + b*(c*ff*x)^n)^p/x], x], x, \sec[e + f*x]/ff], x]\} /;$   $\text{FreeQ}\{a, b, c, e, f, n, p\}, x\} \&\& \text{IntegerQ}[(m - 1)/2] \&\& (\text{GtQ}[m, 0] \parallel \text{EqQ}[n, 2] \parallel \text{EqQ}[n, 4] \parallel \text{IGtQ}[p, 0] \parallel \text{IntegersQ}[2*n, p])$

4628.  $\text{Int}[(b_.)*\sec[(e_.) + (f_.)(x_)]^2)^{(p_.)}*((d_.)*\tan[(e_.) + (f_.)(x_)]^{(m_.)}, x\_Symbol] \rightarrow \text{With}\{\{ff = \text{FreeFactors}[\tan[e + f*x], x]\}, \text{Simp}[b*(ff/f) \text{Subst}[\text{Int}[(d*ff*x)^m*(b + b*ff^2*x^2)^{(p - 1)}], x], x, \tan[e + f*x]/ff], x]\} /;$   $\text{FreeQ}\{b, d, e, f, m, p\}, x\}$

4629.  $\text{Int}[(a_) + (b_.)*\sec[(e_.) + (f_.)(x_)]^{(n_.)})^{(p_.)}*((d_.)*\tan[(e_.) + (f_.)(x_)]^{(m_.)}, x\_Symbol] \rightarrow \text{With}\{\{ff = \text{FreeFactors}[\tan[e + f*x], x]\}, \text{Simp}[ff/f \text{Subst}[\text{Int}[(d*ff*x)^m*(a + b*(1 + ff^2*x^2)^{(n/2)})^p / (1 + ff^2*x^2)], x], x, \tan[e + f*x]/ff], x]\} /;$   $\text{FreeQ}\{a, b, d, e,$



- $f, m, p\}$ ,  $x$ ] && IntegerQ[n/2] && (IntegerQ[m/2] || EqQ[n, 2])
4630.  $\text{Int}[(b\_)*(c\_)*\text{sec}[e\_]+(f\_)*(x\_)]^{(n\_)}^{(p\_)}*((d\_)*\text{tan}[(e\_)+(f\_)*(x\_)]^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[d*(d*\text{Tan}[e+f*x])^{(m-1)}*((b*(c*\text{Sec}[e+f*x])^n)^p/(f*(p*n+m-1))), x] - \text{Simp}[d^2*((m-1)/(p*n+m-1)) \text{Int}[(d*\text{Tan}[e+f*x])^{(m-2)}*(b*(c*\text{Sec}[e+f*x])^n)^p, x], x] /;$  FreeQ[{b, c, d, e, f, p, n}, x] && GtQ[m, 1] && NeQ[p\*n+m-1, 0] && IntegersQ[2\*p\*n, 2\*m]
4631.  $\text{Int}[(b\_)*(c\_)*\text{sec}[e\_]+(f\_)*(x\_)]^{(n\_)}^{(p\_)}*((d\_)*\text{tan}[(e\_)+(f\_)*(x\_)]^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[(d*\text{Tan}[e+f*x])^{(m+1)}*((b*(c*\text{Sec}[e+f*x])^n)^p/(d*f*(m+1))), x] - \text{Simp}[(p*n+m+1)/(d^2*(m+1)) \text{Int}[(d*\text{Tan}[e+f*x])^{(m+2)}*(b*(c*\text{Sec}[e+f*x])^n)^p, x], x] /;$  FreeQ[{b, c, d, e, f, p, n}, x] && LtQ[m, -1] && NeQ[p\*n+m+1, 0] && IntegersQ[2\*p\*n, 2\*m]
4632.  $\text{Int}[(a_)+(b_)*((c_)*\text{sec}[e_]+(f_)*(x_))]^{(n_)}^{(p_)}*((d_)*\text{tan}[(e_)+(f_)*(x_)]^{(m_)}, x\_Symbol] \rightarrow \text{Unintegrable}[(a+b*(c*\text{Sec}[e+f*x])^n)^p*(d*\text{Tan}[e+f*x])^m, x] /;$  FreeQ[{a, b, c, d, e, f, m, n, p}, x]
4633.  $\text{Int}[(\text{cot}[e_]+(f_)*(x_)]*(d_))^{(m_)}*((a_)+(b_)*((c_)*\text{sec}[e_]+(f_)*(x_))]^{(n_)}^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(d*\text{Cot}[e+f*x])^{\text{FracPart}[m]}*(\text{Tan}[e+f*x]/d)^{\text{FracPart}[m]} \text{Int}[(a+b*(c*\text{Sec}[e+f*x])^n)^p/(\text{Tan}[e+f*x]/d)^m, x], x] /;$  FreeQ[{a, b, c, d, e, f, m, n, p}, x] && !IntegerQ[m]
4634.  $\text{Int}[\text{sec}[e_]+(f_)*(x_)]^{(m_)}*((a_)+(b_)*\text{sec}[e_]+(f_)*(x_)]^{(n_)}^{(p_)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Tan}[e+f*x], x]\}, \text{Simp}[ff/f \text{Subst}[\text{Int}[(1+ff^2*x^2)^{(m/2-1)}*\text{ExpandToSum}[a+b*(1+ff^2*x^2)^{(n/2)}, x]^p, x], x, \text{Tan}[e+f*x]/ff], x]] /;$  FreeQ[{a, b, e, f, p}, x] && IntegerQ[m/2] && IntegerQ[n/2]
4635.  $\text{Int}[\text{sec}[e_]+(f_)*(x_)]^{(m_)}*((a_)+(b_)*\text{sec}[e_]+(f_)*(x_)]^{(n_)}^{(p_)}, x\_Symbol] \rightarrow \text{With}[\{ff = \text{FreeFactors}[\text{Sin}[e+f*x], x]\}, \text{Simp}[ff/f \text{Subst}[\text{Int}[\text{ExpandToSum}[b+a*(1-ff^2*x^2)^{(n/2)}, x]^p/(1-ff^2*x^2)^{(m+n*p+1)/2}, x], x, \text{Sin}[e+f*x]/ff], x]] /;$  FreeQ[{a

- , b, e, f}, x] && IntegerQ[(m - 1)/2] && IntegerQ[n/2] && IntegerQ[p]
4636. Int[sec[(e\_.) + (f\_.)\*(x\_)]^(m\_.)\*((a\_) + (b\_.)\*sec[(e\_.) + (f\_.)\*(x\_)]^(n\_))^(p\_), x\_Symbol] := With[{ff = FreeFactors[Sin[e + f\*x], x]}, Simp[ff/f Subst[Int[(a + b/(1 - ff^2\*x^2)^(n/2))^p/(1 - ff^2\*x^2)^((m + 1)/2), x], x, Sin[e + f\*x]/ff], x] /; FreeQ[{a, b, e, f, p}, x] && IntegerQ[(m - 1)/2] && IntegerQ[n/2] && !IntegerQ[p]
4637. Int[sec[(e\_.) + (f\_.)\*(x\_)]^(m\_.)\*((a\_) + (b\_.)\*sec[(e\_.) + (f\_.)\*(x\_)]^(n\_))^(p\_), x\_Symbol] := Int[ExpandTrig[sec[e + f\*x]^m\*(a + b\*sec[e + f\*x]^n)^p, x], x] /; FreeQ[{a, b, e, f}, x] && IntegersQ[m, n, p]
4638. Int[((d\_.)\*sec[(e\_.) + (f\_.)\*(x\_)])^(m\_.)\*((a\_) + (b\_.)\*((c\_.)\*sec[(e\_.) + (f\_.)\*(x\_)])^(n\_))^(p\_.), x\_Symbol] := Unintegrable[(d\*Sec[e + f\*x]^m\*(a + b\*(c\*Sec[e + f\*x]^n)^p, x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x]
4639. Int[(csc[(e\_.) + (f\_.)\*(x\_)]\*(d\_.))^(m\_.)\*((a\_) + (b\_.)\*((c\_.)\*sec[(e\_.) + (f\_.)\*(x\_)])^(n\_))^(p\_), x\_Symbol] := Simp[(d\*Csc[e + f\*x])^FracPart[m]\*(Sin[e + f\*x]/d)^FracPart[m] Int[(a + b\*(c\*Sec[e + f\*x]^n)^p/(Sin[e + f\*x]/d)^m, x], x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && !IntegerQ[m]
4640. Int[((a\_.) + (b\_.)\*sec[(d\_.) + (e\_.)\*(x\_)]^(n\_.) + (c\_.)\*sec[(d\_.) + (e\_.)\*(x\_)]^(n2\_.))^(p\_.), x\_Symbol] := Simp[1/(4^p\*c^p) Int[(b + 2\*c\*Sec[d + e\*x]^n)^(2\*p), x], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2\*n] && EqQ[b^2 - 4\*a\*c, 0] && IntegerQ[p]
4641. Int[((a\_.) + csc[(d\_.) + (e\_.)\*(x\_)]^(n\_.)\*(b\_.) + csc[(d\_.) + (e\_.)\*(x\_)]^(n2\_.)\*(c\_.))^(p\_.), x\_Symbol] := Simp[1/(4^p\*c^p) Int[(b + 2\*c\*Csc[d + e\*x]^n)^(2\*p), x], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2\*n] && EqQ[b^2 - 4\*a\*c, 0] && IntegerQ[p]
4642. Int[((a\_.) + (b\_.)\*sec[(d\_.) + (e\_.)\*(x\_)]^(n\_.) + (c\_.)\*sec[(d\_.) + (e\_.)\*(x\_)]^(n2\_.))^(p\_), x\_Symbol] := Simp[(a + b\*Sec[d + e\*x]^n + c\*Sec[d + e\*x]^(2\*n))^p/(b + 2\*c\*Sec[d + e\*x]^n)^(2\*p) Int[u\*(b + 2\*c\*Sec

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ec[d + e*x]^n^(2*p), x], x] /; FreeQ[{a, b, c, d, e, n, p}, x] && EqQ
[n2, 2*n] && EqQ[b^2 - 4*a*c, 0] && !IntegerQ[p]

4643. Int[((a_.) + csc[(d_.) + (e_.)*(x_) ]^(n_.)*(b_.) + csc[(d_.) + (e_.)*(
x_)]^(n2_.)*(c_.))^(p_), x_Symbol] := Simp[(a + b*Csc[d + e*x]^n + c*C
sc[d + e*x]^(2*n))^(p)/(b + 2*c*Csc[d + e*x]^n)^(2*p) Int[u*(b + 2*c*C
sc[d + e*x]^n)^(2*p), x], x] /; FreeQ[{a, b, c, d, e, n, p}, x] && EqQ
[n2, 2*n] && EqQ[b^2 - 4*a*c, 0] && !IntegerQ[p]

4644. Int[((a_.) + (b_.)*sec[(d_.) + (e_.)*(x_) ]^(n_.) + (c_.)*sec[(d_.) + (
e_.)*(x_) ]^(n2_.))^(p_.)*sin[(d_.) + (e_.)*(x_) ]^(m_.), x_Symbol] := Mo
dule[{q = Rt[b^2 - 4*a*c, 2]},
Simp[2*(c/q) Int[1/(b - q + 2*c*Sec[d + e*x]^n), x], x] - Simp[2*(c
/q) Int[1/(b + q + 2*c*Sec[d + e*x]^n), x], x]] /; FreeQ[{a, b, c, d
, e, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0]

4645. Int[((a_.) + csc[(d_.) + (e_.)*(x_) ]^(n_.)*(b_.) + csc[(d_.) + (e_.)*(
x_)]^(n2_.)*(c_.))^(p_.)*sin[(d_.) + (e_.)*(x_) ]^(m_.), x_Symbol] := Mo
dule[{q = Rt[b^2 - 4*a*c, 2]},
Simp[2*(c/q) Int[1/(b - q + 2*c*Csc[d + e*x]^n), x], x] - Simp[2*(c
/q) Int[1/(b + q + 2*c*Csc[d + e*x]^n), x], x]] /; FreeQ[{a, b, c, d
, e, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0]

4646. Int[((a_.) + (b_.)*sec[(d_.) + (e_.)*(x_) ]^(n_.) + (c_.)*sec[(d_.) + (
e_.)*(x_) ]^(n2_.))^(p_.)*sin[(d_.) + (e_.)*(x_) ]^(m_.), x_Symbol] := Mo
dule[{f = FreeFactors[Cos[d + e*x], x]}, Simp[-f/e Subst[Int[(1 - f^
2*x^2)^((m - 1)/2)*((b + a*(f*x)^n)^p/(f*x)^(n*p)), x], x, Cos[d + e*x
]/f], x]] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[(m
- 1)/2] && IntegersQ[n, p]

4647. Int[cos[(d_.) + (e_.)*(x_) ]^(m_.)*((a_.) + csc[(d_.) + (e_.)*(x_) ]^(n_
.)*(b_.) + csc[(d_.) + (e_.)*(x_) ]^(n2_.)*(c_.))^(p_.), x_Symbol] := Mo
dule[{f = FreeFactors[Sin[d + e*x], x]}, Simp[f/e Subst[Int[(1 - f^2
*x^2)^((m - 1)/2)*((b + a*(f*x)^n)^p/(f*x)^(n*p)), x], x, Sin[d + e*x
]/f], x]] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[(m -
1)/2] && IntegersQ[n, p]

4648. Int[((a_.) + (b_.)*sec[(d_.) + (e_.)*(x_) ]^(n_.) + (c_.)*sec[(d_.) + (e
_.)*(x_) ]^(n2_.))^(p_.)*sin[(d_.) + (e_.)*(x_) ]^(m_.), x_Symbol] := Modu

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le[{f = FreeFactors[Tan[d + e*x], x]}, Simp[f^(m + 1)/e Subst[Int[x^
m*(ExpandToSum[a + b*(1 + f^2*x^2)^(n/2) + c*(1 + f^2*x^2)^n, x]^p/(1
+ f^2*x^2)^(m/2 + 1)), x], x, Tan[d + e*x]/f], x]] /; FreeQ[{a, b, c,
d, e, p}, x] && EqQ[n2, 2*n] && IntegerQ[m/2] && IntegerQ[n/2]

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4649. `Int[cos[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + csc[(d_.) + (e_.)*(x_)]^(n_)
*(b_.) + csc[(d_.) + (e_.)*(x_)]^(n2_)*(c_.))^(p_), x_Symbol] := Modu
le[{f = FreeFactors[Cot[d + e*x], x]}, Simp[-f^(m + 1)/e Subst[Int[x
^m*(ExpandToSum[a + b*(1 + f^2*x^2)^(n/2) + c*(1 + f^2*x^2)^n, x]^p/(1
+ f^2*x^2)^(m/2 + 1)), x], x, Cot[d + e*x]/f], x]] /; FreeQ[{a, b, c,
d, e, p}, x] && EqQ[n2, 2*n] && IntegerQ[m/2] && IntegerQ[n/2]`
4650. `Int[sec[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + (b_.)*sec[(d_.) + (e_.)*(x_
)]^(n_) + (c_.)*sec[(d_.) + (e_.)*(x_)]^(n2_))^(p_), x_Symbol] := Si
mp[1/(4^p*c^p) Int[Sec[d + e*x]^m*(b + 2*c*Sec[d + e*x]^n)^(2*p), x]
, x] /; FreeQ[{a, b, c, d, e, m, n}, x] && EqQ[n2, 2*n] && EqQ[b^2 - 4
*a*c, 0] && IntegerQ[p]`
4651. `Int[csc[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + csc[(d_.) + (e_.)*(x_)]^(n_
.)*(b_.) + csc[(d_.) + (e_.)*(x_)]^(n2_)*(c_.))^(p_), x_Symbol] := Si
mp[1/(4^p*c^p) Int[Csc[d + e*x]^m*(b + 2*c*Csc[d + e*x]^n)^(2*p), x]
, x] /; FreeQ[{a, b, c, d, e, m, n}, x] && EqQ[n2, 2*n] && EqQ[b^2 - 4
*a*c, 0] && IntegerQ[p]`
4652. `Int[sec[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + (b_.)*sec[(d_.) + (e_.)*(x_
)]^(n_) + (c_.)*sec[(d_.) + (e_.)*(x_)]^(n2_))^(p_), x_Symbol] := Si
mp[(a + b*Sec[d + e*x]^n + c*Sec[d + e*x]^(2*n))^p/(b + 2*c*Sec[d + e*
x]^n)^(2*p) Int[Sec[d + e*x]^m*(b + 2*c*Sec[d + e*x]^n)^(2*p), x], x
] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && EqQ[n2, 2*n] && EqQ[b^2 - 4
*a*c, 0] && !IntegerQ[p]`
4653. `Int[csc[(d_.) + (e_.)*(x_)]^(m_)*((a_.) + csc[(d_.) + (e_.)*(x_)]^(n_
.)*(b_.) + csc[(d_.) + (e_.)*(x_)]^(n2_)*(c_.))^(p_), x_Symbol] := Si
mp[(a + b*Csc[d + e*x]^n + c*Csc[d + e*x]^(2*n))^p/(b + 2*c*Csc[d + e*
x]^n)^(2*p) Int[Csc[d + e*x]^m*(b + 2*c*Csc[d + e*x]^n)^(2*p), x], x
] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && EqQ[n2, 2*n] && EqQ[b^2 - 4
*a*c, 0] && !IntegerQ[p]`

4654. `Int[sec[(d_.) + (e_.)*(x_)]^(m_.)*((a_.) + (b_.)*sec[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*sec[(d_.) + (e_.)*(x_)]^(n2_.))^(p_), x_Symbol] := Int[ExpandTrig[sec[d + e*x]^m*(a + b*sec[d + e*x]^n + c*sec[d + e*x]^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && Integers Q[m, n, p]`
4655. `Int[csc[(d_.) + (e_.)*(x_)]^(m_.)*((a_.) + csc[(d_.) + (e_.)*(x_)]^(n_.)*(b_.) + csc[(d_.) + (e_.)*(x_)]^(n2_.)*(c_.))^(p_), x_Symbol] := Int[ExpandTrig[csc[d + e*x]^m*(a + b*csc[d + e*x]^n + c*csc[d + e*x]^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && Integers Q[m, n, p]`
4656. `Int[((a_) + (b_.)*sec[(d_.) + (e_.)*(x_)]^(n_.) + (c_.)*sec[(d_.) + (e_.)*(x_)]^(n2_.))^(p_.)*tan[(d_.) + (e_.)*(x_)]^(m_.), x_Symbol] := Module[{f = FreeFactors[Cos[d + e*x], x]}, Simp[-(e*f^(m + n*p - 1))^(-1) Subst[Int[(1 - f^2*x^2)^((m - 1)/2)*((c + b*(f*x)^n + c*(f*x)^(2*n))^p/x^(m + 2*n*p)), x], x, Cos[d + e*x]/f], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n] && IntegerQ[(m - 1)/2] && IntegerQ[n] && IntegerQ[p]`
4657. `Int[cot[(d_.) + (e_.)*(x_)]^(m_.)*(csc[(d_.) + (e_.)*(x_)]^(n_.)*(b_.) + (a_) + (c_.)*sec[(d_.) + (e_.)*(x_)]^(n2_.))^(p_.), x_Symbol] := Module[{f = FreeFactors[Sin[d + e*x], x]}, Simp[1/(e*f^(m + n*p - 1)) Subst[Int[(1 - f^2*x^2)^((m - 1)/2)*((c + b*(f*x)^n + c*(f*x)^(2*n))^p/x^(m + 2*n*p)), x], x, Sin[d + e*x]/f], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n] && IntegerQ[(m - 1)/2] && IntegerQ[n] && IntegerQ[p]`
4658. `Int[((a_) + (c_.)*sec[(d_.) + (e_.)*(x_)]^(n2_.) + (b_.)*sec[(d_.) + (e_.)*(x_)]^(n_))^(p_.)*tan[(d_.) + (e_.)*(x_)]^(m_.), x_Symbol] := Module[{f = FreeFactors[Tan[d + e*x], x]}, Simp[f^(m + 1)/e Subst[Int[x^m*(ExpandToSum[a + b*(1 + f^2*x^2)^(n/2) + c*(1 + f^2*x^2)^n, x]^p/(1 + f^2*x^2)), x], x, Tan[d + e*x]/f], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[n2, 2*n] && IntegerQ[m/2] && IntegerQ[n/2]`

4659.  $\text{Int}[\cot[(d_.) + (e_.)(x_.)]^{(m_.)} * (\csc[(d_.) + (e_.)(x_.)]^{(n_.)} * (b_.) + (a_.) + (c_.) * \sec[(d_.) + (e_.)(x_.)]^{(n2_.)})^{(p_.)}, x\_Symbol] \rightarrow \text{Module}\{f = \text{FreeFactors}[\text{Cot}[d + e*x], x]\}, \text{Simp}[-f^{(m + 1)}/e \text{ Subst}[\text{Int}[x^m * (\text{ExpandToSum}[a + b*(1 + f^2*x^2)^{(n/2)} + c*(1 + f^2*x^2)^n, x]^p / (1 + f^2*x^2)), x], x, \text{Cot}[d + e*x]/f], x] \}; \text{FreeQ}\{a, b, c, d, e\}, x \} \&\& \text{EqQ}[n2, 2*n] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[n/2]$
4660.  $\text{Int}[(A_.) + (B_.) * \sec[(d_.) + (e_.)(x_.)] * ((a_.) + (b_.) * \sec[(d_.) + (e_.)(x_.)] + (c_.) * \sec[(d_.) + (e_.)(x_.)]^2)^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[1/(4^n * c^n) \text{ Int}[(A + B * \text{Sec}[d + e*x]) * (b + 2*c * \text{Sec}[d + e*x])^{(2*n)}, x], x] \}; \text{FreeQ}\{a, b, c, d, e, A, B\}, x \} \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[n]$
4661.  $\text{Int}[(\csc[(d_.) + (e_.)(x_.)] * (b_.) + \csc[(d_.) + (e_.)(x_.)]^2 * (c_.) + (a_.))^{(n_.)} * (\csc[(d_.) + (e_.)(x_.)] * (B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[1/(4^n * c^n) \text{ Int}[(A + B * \text{Csc}[d + e*x]) * (b + 2*c * \text{Csc}[d + e*x])^{(2*n)}, x], x] \}; \text{FreeQ}\{a, b, c, d, e, A, B\}, x \} \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[n]$
4662.  $\text{Int}[(A_.) + (B_.) * \sec[(d_.) + (e_.)(x_.)] * ((a_.) + (b_.) * \sec[(d_.) + (e_.)(x_.)] + (c_.) * \sec[(d_.) + (e_.)(x_.)]^2)^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(a + b * \text{Sec}[d + e*x] + c * \text{Sec}[d + e*x]^2)^n / (b + 2*c * \text{Sec}[d + e*x])^{(2*n)} \text{ Int}[(A + B * \text{Sec}[d + e*x]) * (b + 2*c * \text{Sec}[d + e*x])^{(2*n)}, x], x] \}; \text{FreeQ}\{a, b, c, d, e, A, B\}, x \} \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[n]$
4663.  $\text{Int}[(\csc[(d_.) + (e_.)(x_.)] * (b_.) + \csc[(d_.) + (e_.)(x_.)]^2 * (c_.) + (a_.))^{(n_.)} * (\csc[(d_.) + (e_.)(x_.)] * (B_.) + (A_.)), x\_Symbol] \rightarrow \text{Simp}[(a + b * \text{Csc}[d + e*x] + c * \text{Csc}[d + e*x]^2)^n / (b + 2*c * \text{Csc}[d + e*x])^{(2*n)} \text{ Int}[(A + B * \text{Csc}[d + e*x]) * (b + 2*c * \text{Csc}[d + e*x])^{(2*n)}, x], x] \}; \text{FreeQ}\{a, b, c, d, e, A, B\}, x \} \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& !\text{IntegerQ}[n]$
4664.  $\text{Int}[(A_.) + (B_.) * \sec[(d_.) + (e_.)(x_.)] / ((a_.) + (b_.) * \sec[(d_.) + (e_.)(x_.)] + (c_.) * \sec[(d_.) + (e_.)(x_.)]^2), x\_Symbol] \rightarrow \text{Module}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Simp}[(B + (b*B - 2*A*c)/q) \text{ Int}[1/(b + q + 2*c * \text{Sec}[d + e*x]), x], x] + \text{Simp}[(B - (b*B - 2*A*c)/q) \text{ Int}[1/(b - q + 2*c * \text{Sec}[d + e*x]), x], x] \}; \text{FreeQ}\{a, b, c, d, e, A, B\}, x \} \&\& \text{NeQ}[b^2 - 4*a*c, 0]$

4665.  $\text{Int}[(\text{csc}[(d\_)] + (e\_)(x\_)](B\_)] + (A\_)] / ((a\_)] + \text{csc}[(d\_)] + (e\_)(x\_)](b\_)] + \text{csc}[(d\_)] + (e\_)(x\_)]^2(c\_)]), x\_Symbol] \rightarrow \text{Module}[\{q = \text{Rt}[b^2 - 4ac, 2]\}, \text{Simp}[(B + (bB - 2Ac)/q) \text{Int}[1/(b + q + 2c \text{Csc}[d + ex]), x], x] + \text{Simp}[(B - (bB - 2Ac)/q) \text{Int}[1/(b - q + 2c \text{Csc}[d + ex]), x], x]] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x\} \&\& \text{NeQ}[b^2 - 4ac, 0]$
4666.  $\text{Int}[(A + (B \text{sec}[(d + ex)]) \text{sec}[(d + ex)] + (a + b \text{sec}[(d + ex)] + c \text{sec}[(d + ex)]^2)^n), x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(A + B \text{sec}[d + ex])(a + b \text{sec}[d + ex] + c \text{sec}[d + ex]^2)^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x\} \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{IntegerQ}[n]$
4667.  $\text{Int}[(a + \text{csc}[(d + ex)](b + \text{csc}[(d + ex)]^2(c + \text{csc}[(d + ex)](B + A))), x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrig}[(A + B \text{csc}[d + ex])(a + b \text{csc}[d + ex] + c \text{csc}[d + ex]^2)^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, A, B\}, x\} \&\& \text{NeQ}[b^2 - 4ac, 0] \&\& \text{IntegerQ}[n]$
4668.  $\text{Int}[\text{csc}[(e + \text{Pi}(k + (Complex[0, fz])(f)(x)))]((c + (d)(x))^m), x\_Symbol] \rightarrow \text{Simp}[-2(c + dx)^m(\text{ArcTanh}[E^{(-I)e + f \text{fz}x}/E^{(I k \text{Pi})}]/(f \text{fz} I)), x] + (-\text{Simp}[d(m/(f \text{fz} I)) \text{Int}[(c + dx)^{m-1} \text{Log}[1 - E^{(-I)e + f \text{fz}x}/E^{(I k \text{Pi})}], x], x] + \text{Simp}[d(m/(f \text{fz} I)) \text{Int}[(c + dx)^{m-1} \text{Log}[1 + E^{(-I)e + f \text{fz}x}/E^{(I k \text{Pi})}], x], x]) /; \text{FreeQ}\{c, d, e, f, \text{fz}\}, x\} \&\& \text{IntegerQ}[2k] \&\& \text{IGtQ}[m, 0]$
4669.  $\text{Int}[\text{csc}[(e + \text{Pi}(k + (f)(x)))]((c + (d)(x))^m), x\_Symbol] \rightarrow \text{Simp}[-2(c + dx)^m(\text{ArcTanh}[E^{(I k \text{Pi})} E^{(I(e + fx))}]/f), x] + (-\text{Simp}[d(m/f) \text{Int}[(c + dx)^{m-1} \text{Log}[1 - E^{(I k \text{Pi})} E^{(I(e + fx))}], x], x] + \text{Simp}[d(m/f) \text{Int}[(c + dx)^{m-1} \text{Log}[1 + E^{(I k \text{Pi})} E^{(I(e + fx))}], x], x]) /; \text{FreeQ}\{c, d, e, f\}, x\} \&\& \text{IntegerQ}[2k] \&\& \text{IGtQ}[m, 0]$
4670.  $\text{Int}[\text{csc}[(e + (Complex[0, fz])(f)(x)))]((c + (d)(x))^m), x\_Symbol] \rightarrow \text{Simp}[-2(c + dx)^m(\text{ArcTanh}[E^{(-I)e + f \text{fz}x}]/(f$

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fz*I)), x] + (-Simp[d*(m/(f*fz*I)) Int[(c + d*x)^(m - 1)*Log[1 - E^(-I)*e + f*fz*x]], x], x] + Simp[d*(m/(f*fz*I)) Int[(c + d*x)^(m - 1)*Log[1 + E^((-I)*e + f*fz*x)], x], x]) /; FreeQ[{c, d, e, f, fz}, x]
&& IGtQ[m, 0]

4671. Int[csc[(e_.) + (f_.)*(x_)]*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] := S
imp[-2*(c + d*x)^m*(ArcTanh[E^(I*(e + f*x))]/f), x] + (-Simp[d*(m/f)
Int[(c + d*x)^(m - 1)*Log[1 - E^(I*(e + f*x))], x], x] + Simp[d*(m/f)
Int[(c + d*x)^(m - 1)*Log[1 + E^(I*(e + f*x))], x], x]) /; FreeQ[{c
, d, e, f}, x] && IGtQ[m, 0]

4672. Int[csc[(e_.) + (f_.)*(x_)]^2*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :=
Simp[(-(c + d*x)^m)*(Cot[e + f*x]/f), x] + Simp[d*(m/f) Int[(c + d*
x)^(m - 1)*Cot[e + f*x], x], x] /; FreeQ[{c, d, e, f}, x] && GtQ[m, 0]

4673. Int[(csc[(e_.) + (f_.)*(x_)]*(b_.))^(n_)*((c_.) + (d_.)*(x_)), x_Symbo
l] := Simp[(-b^2)*(c + d*x)*Cot[e + f*x]*((b*Csc[e + f*x])^(n - 2)/(f*(
n - 1))), x] + (-Simp[b^2*d*((b*Csc[e + f*x])^(n - 2)/(f^2*(n - 1)*(n
- 2))), x] + Simp[b^2*((n - 2)/(n - 1)) Int[(c + d*x)*(b*Csc[e + f*
x])^(n - 2), x], x]) /; FreeQ[{b, c, d, e, f}, x] && GtQ[n, 1] && NeQ[
n, 2]

4674. Int[(csc[(e_.) + (f_.)*(x_)]*(b_.))^(n_)*((c_.) + (d_.)*(x_))^(m_), x_
Symbol] := Simp[(-b^2)*(c + d*x)^m*Cot[e + f*x]*((b*Csc[e + f*x])^(n -
2)/(f*(n - 1))), x] + (-Simp[b^2*d*m*(c + d*x)^(m - 1)*((b*Csc[e + f*
x])^(n - 2)/(f^2*(n - 1)*(n - 2))), x] + Simp[b^2*d^2*m*(m - 1)/(f^2*
(n - 1)*(n - 2)) Int[(c + d*x)^(m - 2)*(b*Csc[e + f*x])^(n - 2), x]
, x] + Simp[b^2*((n - 2)/(n - 1)) Int[(c + d*x)^m*(b*Csc[e + f*x])^(
n - 2), x], x]) /; FreeQ[{b, c, d, e, f}, x] && GtQ[n, 1] && NeQ[n, 2]
&& GtQ[m, 1]

4675. Int[(csc[(e_.) + (f_.)*(x_)]*(b_.))^(n_)*((c_.) + (d_.)*(x_)), x_Symbo
l] := Simp[d*((b*Csc[e + f*x])^n/(f^2*n^2)), x] + (Simp[(c + d*x)*Cos[
e + f*x]*((b*Csc[e + f*x])^(n + 1)/(b*f*n)), x] + Simp[(n + 1)/(b^2*n)
Int[(c + d*x)*(b*Csc[e + f*x])^(n + 2), x], x]) /; FreeQ[{b, c, d,
e, f}, x] && LtQ[n, -1]

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4676. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (b_.)]^{(n_.)} \cdot ((c_.) + (d_.) \cdot (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[d^m \cdot (c + d \cdot x)^{(m-1)} \cdot ((b \cdot \text{Csc}[e + f \cdot x])^n / (f^2 \cdot n^2)), x] + (\text{Simp}[(c + d \cdot x)^m \cdot \text{Cos}[e + f \cdot x] \cdot ((b \cdot \text{Csc}[e + f \cdot x])^{(n+1)} / (b \cdot f \cdot n)), x] + \text{Simp}[(n+1) / (b^2 \cdot n) \text{Int}[(c + d \cdot x)^m \cdot (b \cdot \text{Csc}[e + f \cdot x])^{(n+2)}, x], x] - \text{Simp}[d^2 \cdot m \cdot (m-1) / (f^2 \cdot n^2) \text{Int}[(c + d \cdot x)^{(m-2)} \cdot (b \cdot \text{Csc}[e + f \cdot x])^n, x], x]) /; \text{FreeQ}[\{b, c, d, e, f\}, x] \&\& \text{LtQ}[n, -1] \&\& \text{GtQ}[m, 1]$
4677. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (b_.)]^{(n_.)} \cdot ((c_.) + (d_.) \cdot (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(b \cdot \text{Sin}[e + f \cdot x])^n \cdot (b \cdot \text{Csc}[e + f \cdot x])^n \text{Int}[(c + d \cdot x)^m / (b \cdot \text{Sin}[e + f \cdot x])^n, x], x] /; \text{FreeQ}[\{b, c, d, e, f, m, n\}, x] \&\& ! \text{IntegerQ}[n]$
4678. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (b_.) + (a_)]^{(n_.)} \cdot ((c_.) + (d_.) \cdot (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(c + d \cdot x)^m, (a + b \cdot \text{Csc}[e + f \cdot x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
4679. $\text{Int}[(\text{csc}[e_.] + (f_.) \cdot (x_)) \cdot (b_.) + (a_)]^{(n_.)} \cdot ((c_.) + (d_.) \cdot (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(c + d \cdot x)^m, 1 / (\text{Sin}[e + f \cdot x])^n / (b + a \cdot \text{Sin}[e + f \cdot x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{ILtQ}[n, 0] \&\& \text{IGtQ}[m, 0]$
4680. $\text{Int}[\text{csc}[e_.] + (f_.) \cdot (x_)]^{(n_.)} \cdot ((c_.) + (d_.) \cdot (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[\text{If}[\text{MatchQ}[f, (f1_.) \cdot (\text{Complex}[0, j_])], \text{If}[\text{MatchQ}[e, (e1_.) + \text{Pi}/2], \text{Unintegrable}[(c + d \cdot x)^m \cdot \text{Sech}[I \cdot (e - \text{Pi}/2) + I \cdot f \cdot x]^n, x], (-I)^n \cdot \text{Unintegrable}[(c + d \cdot x)^m \cdot \text{Sch}[-I \cdot e - I \cdot f \cdot x]^n, x]], \text{If}[\text{MatchQ}[e, (e1_.) + \text{Pi}/2], \text{Unintegrable}[(c + d \cdot x)^m \cdot \text{Sec}[e - \text{Pi}/2 + f \cdot x]^n, x], \text{Unintegrable}[(c + d \cdot x)^m \cdot \text{Csc}[e + f \cdot x]^n, x]]], x] /; \text{FreeQ}[\{c, d, e, f, m, n\}, x] \&\& \text{IntegerQ}[n]$
4681. $\text{Int}[(a_.) + \text{csc}[e_.] + (f_.) \cdot (x_)] \cdot (b_.)]^{(n_.)} \cdot ((c_.) + (d_.) \cdot (x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(c + d \cdot x)^m \cdot (a + b \cdot \text{Csc}[e + f \cdot x])^n, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x]$
4682. $\text{Int}[(u_)]^{(m_.)} \cdot ((a_.) + (b_.) \cdot \text{Sec}[v_])^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m \cdot (a + b \cdot \text{Sec}[\text{ExpandToSum}[v, x]])^n, x] /; \text{FreeQ}[\{a, b, m, n$

- }, x] && LinearQ[{u, v}, x] && !LinearMatchQ[{u, v}, x]
4683. $\text{Int}[(a_.) + \text{Csc}[v_]*(b_.))^{\text{(n_.)}}*(u_)^{\text{(m_.)}}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m*(a + b*\text{Csc}[\text{ExpandToSum}[v, x]])^n, x] /; \text{FreeQ}\{a, b, m, n\}, x] \&\& \text{LinearQ}\{u, v\}, x] \&\& !\text{LinearMatchQ}\{u, v\}, x]$
4684. $\text{Int}[(a_.) + (b_.)*\text{Sec}[(c_.) + (d_.)*(x_)^{\text{(n_.)}}])^{\text{(p_.)}}, x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{\text{(1/n - 1)}}*(a + b*\text{Sec}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, p\}, x] \&\& \text{IGtQ}[1/n, 0] \&\& \text{IntegerQ}[p]$
4685. $\text{Int}[(a_.) + \text{Csc}[(c_.) + (d_.)*(x_)^{\text{(n_.)}}]*(b_.))^{\text{(p_.)}}, x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{\text{(1/n - 1)}}*(a + b*\text{Csc}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, p\}, x] \&\& \text{IGtQ}[1/n, 0] \&\& \text{IntegerQ}[p]$
4686. $\text{Int}[(a_.) + (b_.)*\text{Sec}[(c_.) + (d_.)*(x_)^{\text{(n_.)}}])^{\text{(p_.)}}, x_Symbol] \rightarrow \text{Unintegrable}[(a + b*\text{Sec}[c + d*x^n])^p, x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x]$
4687. $\text{Int}[(a_.) + \text{Csc}[(c_.) + (d_.)*(x_)^{\text{(n_.)}}]*(b_.))^{\text{(p_.)}}, x_Symbol] \rightarrow \text{Unintegrable}[(a + b*\text{Csc}[c + d*x^n])^p, x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x]$
4688. $\text{Int}[(a_.) + (b_.)*\text{Sec}[(c_.) + (d_.)*(u_)^{\text{(n_.)}}])^{\text{(p_.)}}, x_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(a + b*\text{Sec}[c + d*x^n])^p, x], u, x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
4689. $\text{Int}[(a_.) + \text{Csc}[(c_.) + (d_.)*(u_)^{\text{(n_.)}}]*(b_.))^{\text{(p_.)}}, x_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(a + b*\text{Csc}[c + d*x^n])^p, x], u, x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
4690. $\text{Int}[(a_.) + (b_.)*\text{Sec}[u_])^{\text{(p_.)}}, x_Symbol] \rightarrow \text{Int}[(a + b*\text{Sec}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
4691. $\text{Int}[(a_.) + \text{Csc}[u_]*(b_.))^{\text{(p_.)}}, x_Symbol] \rightarrow \text{Int}[(a + b*\text{Csc}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$

mialMatchQ[u, x]

4692. $\text{Int}[(x_)^{(m_.)}*((a_.) + (b_.)*\text{Sec}[(c_.) + (d_.)*(x_)^{(n_.)}])^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n) - 1}*(a + b*\text{Sec}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{IGtQ}[\text{Simplify}[(m + 1)/n], 0] \&\& \text{IntegerQ}[p]$
4693. $\text{Int}[((a_.) + \text{Csc}[(c_.) + (d_.)*(x_)^{(n_.)}])*(b_.))^{(p_.)}*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n) - 1}*(a + b*\text{Csc}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{IGtQ}[\text{Simplify}[(m + 1)/n], 0] \&\& \text{IntegerQ}[p]$
4694. $\text{Int}[(x_)^{(m_.)}*((a_.) + (b_.)*\text{Sec}[(c_.) + (d_.)*(x_)^{(n_.)}])^{(p_.)}, x_Symbol] \rightarrow \text{Unintegrable}[x^m*(a + b*\text{Sec}[c + d*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x]$
4695. $\text{Int}[((a_.) + \text{Csc}[(c_.) + (d_.)*(x_)^{(n_.)}])*(b_.))^{(p_.)}*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[x^m*(a + b*\text{Csc}[c + d*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x]$
4696. $\text{Int}[((e_)*(x_))^{(m_.)}*((a_.) + (b_.)*\text{Sec}[(c_.) + (d_.)*(x_)^{(n_.)}])^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]*((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]})} \text{Int}[x^m*(a + b*\text{Sec}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
4697. $\text{Int}[((a_.) + \text{Csc}[(c_.) + (d_.)*(x_)^{(n_.)}])*(b_.))^{(p_.)}*((e_)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]*((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]})} \text{Int}[x^m*(a + b*\text{Csc}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
4698. $\text{Int}[((e_)*(x_))^{(m_.)}*((a_.) + (b_.)*\text{Sec}[u_])^{(p_.)}, x_Symbol] \rightarrow \text{Int}[(e*x)^m*(a + b*\text{Sec}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, e, m, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
4699. $\text{Int}[((a_.) + \text{Csc}[u_]*(b_.))^{(p_.)}*((e_)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(e*x)^m*(a + b*\text{Csc}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, e, m, p\}, x]$

- $x]$ && BinomialQ[u, x] && !BinomialMatchQ[u, x]
4700. $\text{Int}[(x_)^{(m_.)} \cdot \text{Sec}[(a_.) + (b_.)(x_)^{(n_.)}]^{(p_)} \cdot \text{Sin}[(a_.) + (b_.)(x_)^{(n_.)}], x_Symbol] \rightarrow \text{Simp}[x^{(m - n + 1)} \cdot (\text{Sec}[a + b \cdot x^n]^{(p - 1)} / (b \cdot n \cdot (p - 1))), x] - \text{Simp}[(m - n + 1) / (b \cdot n \cdot (p - 1)) \text{Int}[x^{(m - n)} \cdot \text{Sec}[a + b \cdot x^n]^{(p - 1)}, x], x] /;$ FreeQ[{a, b, p}, x] && IntegerQ[n] && GeQ[m - n, 0] && NeQ[p, 1]
4701. $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)^{(n_.)}] \cdot \text{Csc}[(a_.) + (b_.)(x_)^{(n_.)}]^{(p_)} \cdot (x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-x^{(m - n + 1)}) \cdot (\text{Csc}[a + b \cdot x^n]^{(p - 1)} / (b \cdot n \cdot (p - 1))), x] + \text{Simp}[(m - n + 1) / (b \cdot n \cdot (p - 1)) \text{Int}[x^{(m - n)} \cdot \text{Csc}[a + b \cdot x^n]^{(p - 1)}, x], x] /;$ FreeQ[{a, b, p}, x] && IntegerQ[n] && GeQ[m - n, 0] && NeQ[p, 1]
4702. $\text{Int}[(u_) \cdot ((d_.) \cdot \text{sin}[(a_.) + (b_.)(x_)])^{(n_.)} \cdot ((c_.) \cdot \text{tan}[(a_.) + (b_.)(x_)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c \cdot \text{Tan}[a + b \cdot x])^m \cdot ((d \cdot \text{Cos}[a + b \cdot x])^m / (d \cdot \text{Sin}[a + b \cdot x])^m) \text{Int}[\text{ActivateTrig}[u] \cdot ((d \cdot \text{Sin}[a + b \cdot x])^{(m + n)} / (d \cdot \text{Cos}[a + b \cdot x])^m), x], x] /;$ FreeQ[{a, b, c, d, m, n}, x] && KnownSineIntegrandQ[u, x] && !IntegerQ[m]
4703. $\text{Int}[(\text{cos}[(a_.) + (b_.)(x_)] \cdot (d_.))^{(n_.)} \cdot (u_) \cdot ((c_.) \cdot \text{tan}[(a_.) + (b_.)(x_)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c \cdot \text{Tan}[a + b \cdot x])^m \cdot ((d \cdot \text{Cos}[a + b \cdot x])^m / (d \cdot \text{Sin}[a + b \cdot x])^m) \text{Int}[\text{ActivateTrig}[u] \cdot ((d \cdot \text{Sin}[a + b \cdot x])^m / (d \cdot \text{Cos}[a + b \cdot x])^{(m - n)}), x], x] /;$ FreeQ[{a, b, c, d, m, n}, x] && KnownSineIntegrandQ[u, x] && !IntegerQ[m]
4704. $\text{Int}[(\text{cot}[(a_.) + (b_.)(x_)] \cdot (c_.))^{(m_.)} \cdot (u_) \cdot ((d_.) \cdot \text{sin}[(a_.) + (b_.)(x_)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(c \cdot \text{Cot}[a + b \cdot x])^m \cdot ((d \cdot \text{Sin}[a + b \cdot x])^m / (d \cdot \text{Cos}[a + b \cdot x])^m) \text{Int}[\text{ActivateTrig}[u] \cdot ((d \cdot \text{Cos}[a + b \cdot x])^m / (d \cdot \text{Sin}[a + b \cdot x])^{(m - n)}), x], x] /;$ FreeQ[{a, b, c, d, m, n}, x] && KnownSineIntegrandQ[u, x] && !IntegerQ[m]
4705. $\text{Int}[(\text{cot}[(a_.) + (b_.)(x_)] \cdot (c_.))^{(m_.)} \cdot (\text{cos}[(a_.) + (b_.)(x_)] \cdot (d_.))^{(n_.)} \cdot (u_), x_Symbol] \rightarrow \text{Simp}[(c \cdot \text{Cot}[a + b \cdot x])^m \cdot ((d \cdot \text{Sin}[a + b \cdot x])^m / (d \cdot \text{Cos}[a + b \cdot x])^m) \text{Int}[\text{ActivateTrig}[u] \cdot ((d \cdot \text{Cos}[a + b \cdot x])^{(m + n)} / (d \cdot \text{Sin}[a + b \cdot x])^m), x], x] /;$ FreeQ[{a, b, c, d, m, n}, x] && KnownS

ineIntegrandQ[u, x] && !IntegerQ[m]

4706. $\text{Int}[(\cos[(a_.) + (b_.)(x_)])(d_.))^{(n_.)}(u_)((c_.)\sec[(a_.) + (b_.)(x_)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c*\text{Csc}[a + b*x])^m*(d*\text{Sin}[a + b*x])^m \text{Int}[\text{ActivateTrig}[u]*(d*\text{Sin}[a + b*x])^{(n - m)}, x], x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& \text{KnownSineIntegrandQ}[u, x]$

4707. $\text{Int}[(u_)((c_.)\tan[(a_.) + (b_.)(x_)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c*\text{Tan}[a + b*x])^m*((c*\text{Cos}[a + b*x])^m/(c*\text{Sin}[a + b*x])^m) \text{Int}[\text{ActivateTrig}[u]*((c*\text{Sin}[a + b*x])^m/(c*\text{Cos}[a + b*x])^m), x], x] /; \text{FreeQ}[\{a, b, c, m\}, x] \&\& !\text{IntegerQ}[m] \&\& \text{KnownSineIntegrandQ}[u, x]$

4708. $\text{Int}[(\cot[(a_.) + (b_.)(x_)])(c_.))^{(m_.)}(u_), x_Symbol] \rightarrow \text{Simp}[(c*\text{Cot}[a + b*x])^m*((c*\text{Sin}[a + b*x])^m/(c*\text{Cos}[a + b*x])^m) \text{Int}[\text{ActivateTrig}[u]*((c*\text{Cos}[a + b*x])^m/(c*\text{Sin}[a + b*x])^m), x], x] /; \text{FreeQ}[\{a, b, c, m\}, x] \&\& !\text{IntegerQ}[m] \&\& \text{KnownSineIntegrandQ}[u, x]$

4709. $\text{Int}[(u_)((c_.)\sec[(a_.) + (b_.)(x_)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c*\text{Sec}[a + b*x])^m*(c*\text{Cos}[a + b*x])^m \text{Int}[\text{ActivateTrig}[u]/(c*\text{Cos}[a + b*x])^m, x], x] /; \text{FreeQ}[\{a, b, c, m\}, x] \&\& !\text{IntegerQ}[m] \&\& \text{KnownSineIntegrandQ}[u, x]$

4710. $\text{Int}[(\text{csc}[(a_.) + (b_.)(x_)])(c_.))^{(m_.)}(u_), x_Symbol] \rightarrow \text{Simp}[(c*\text{Csc}[a + b*x])^m*(c*\text{Sin}[a + b*x])^m \text{Int}[\text{ActivateTrig}[u]/(c*\text{Sin}[a + b*x])^m, x], x] /; \text{FreeQ}[\{a, b, c, m\}, x] \&\& !\text{IntegerQ}[m] \&\& \text{KnownSineIntegrandQ}[u, x]$

4711. $\text{Int}[(\text{csc}[(a_.) + (b_.)(x_)])(B_.) + (A_.))(u_)((c_.)\sin[(a_.) + (b_.)(x_)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[c \text{Int}[\text{ActivateTrig}[u]*(c*\text{Sin}[a + b*x])^{(n - 1)}*(B + A*\text{Sin}[a + b*x]), x], x] /; \text{FreeQ}[\{a, b, c, A, B, n\}, x] \&\& \text{KnownSineIntegrandQ}[u, x]$

4712. $\text{Int}[(\cos[(a_.) + (b_.)(x_)])(c_.))^{(n_.)}(u_)((A_.) + (B_.)\sec[(a_.) + (b_.)(x_)])^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[c \text{Int}[\text{ActivateTrig}[u]*(c*\text{Cos}[a + b*x])^{(n - 1)}*(B + A*\text{Cos}[a + b*x]), x], x] /; \text{FreeQ}[\{a, b, c, A, B, n\}, x] \&\& \text{KnownSineIntegrandQ}[u, x]$

4713. $\text{Int}[(\text{csc}[a_.] + (b_.)(x_.))(B_.) + (A_.)(u_.), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] * ((B + A * \text{Sin}[a + b * x]) / \text{Sin}[a + b * x]), x] /; \text{FreeQ}[\{a, b, A, B\}, x] \ \&\& \ \text{KnownSineIntegrandQ}[u, x]$
4714. $\text{Int}[(u_.)((A_.) + (B_.)\text{sec}[a_.] + (b_.)(x_.))], x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] * ((B + A * \text{Cos}[a + b * x]) / \text{Cos}[a + b * x]), x] /; \text{FreeQ}[\{a, b, A, B\}, x] \ \&\& \ \text{KnownSineIntegrandQ}[u, x]$
4715. $\text{Int}(((A_.) + \text{csc}[a_.] + (b_.)(x_.))(B_.) + \text{csc}[a_.] + (b_.)(x_.))^2 * (C_.)(u_.)((c_.)\text{sin}[a_.] + (b_.)(x_.))^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[c^2 \ \text{Int}[\text{ActivateTrig}[u] * (c * \text{Sin}[a + b * x])^{(n - 2)} * (C + B * \text{Sin}[a + b * x] + A * \text{Sin}[a + b * x]^2), x], x] /; \text{FreeQ}[\{a, b, c, A, B, C, n\}, x] \ \&\& \ \text{KnownSineIntegrandQ}[u, x]$
4716. $\text{Int}[(\text{cos}[a_.] + (b_.)(x_.))(c_.))^{(n_.)}(u_.)((A_.) + (B_.)\text{sec}[a_.] + (b_.)(x_.)) + (C_.)\text{sec}[a_.] + (b_.)(x_.))^2], x_Symbol] \rightarrow \text{Simp}[c^2 \ \text{Int}[\text{ActivateTrig}[u] * (c * \text{Cos}[a + b * x])^{(n - 2)} * (C + B * \text{Cos}[a + b * x] + A * \text{Cos}[a + b * x]^2), x], x] /; \text{FreeQ}[\{a, b, c, A, B, C, n\}, x] \ \&\& \ \text{KnownSineIntegrandQ}[u, x]$
4717. $\text{Int}[(u_.)(\text{csc}[a_.] + (b_.)(x_.))^2(C_.) + (A_.)((c_.)\text{sin}[a_.] + (b_.)(x_.))^{(n_.)}], x_Symbol] \rightarrow \text{Simp}[c^2 \ \text{Int}[\text{ActivateTrig}[u] * (c * \text{Sin}[a + b * x])^{(n - 2)} * (C + A * \text{Sin}[a + b * x]^2), x], x] /; \text{FreeQ}[\{a, b, c, A, C, n\}, x] \ \&\& \ \text{KnownSineIntegrandQ}[u, x]$
4718. $\text{Int}[(\text{cos}[a_.] + (b_.)(x_.))(c_.))^{(n_.)}(u_.)((A_.) + (C_.)\text{sec}[a_.] + (b_.)(x_.))^2], x_Symbol] \rightarrow \text{Simp}[c^2 \ \text{Int}[\text{ActivateTrig}[u] * (c * \text{Cos}[a + b * x])^{(n - 2)} * (C + A * \text{Cos}[a + b * x]^2), x], x] /; \text{FreeQ}[\{a, b, c, A, C, n\}, x] \ \&\& \ \text{KnownSineIntegrandQ}[u, x]$
4719. $\text{Int}(((A_.) + \text{csc}[a_.] + (b_.)(x_.))(B_.) + \text{csc}[a_.] + (b_.)(x_.))^2 * (C_.)(u_.), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] * ((C + B * \text{Sin}[a + b * x] + A * \text{Sin}[a + b * x]^2) / \text{Sin}[a + b * x]^2), x] /; \text{FreeQ}[\{a, b, A, B, C\}, x] \ \&\& \ \text{KnownSineIntegrandQ}[u, x]$

4720. $\text{Int}[(u_*)((A_*) + (B_*)\sec[(a_*) + (b_*)(x_*)] + (C_*)\sec[(a_*) + (b_*)(x_*)]^2), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + B*\cos[a + b*x] + A*\cos[a + b*x]^2)/\cos[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, B, C\}, x] \&\& \text{KnownSineIntegrandQ}[u, x]$
4721. $\text{Int}[(\csc[(a_*) + (b_*)(x_*)]^2*(C_*) + (A_*))(u_*), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + A*\sin[a + b*x]^2)/\sin[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, C\}, x] \&\& \text{KnownSineIntegrandQ}[u, x]$
4722. $\text{Int}[(u_*)((A_*) + (C_*)\sec[(a_*) + (b_*)(x_*)]^2), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + A*\cos[a + b*x]^2)/\cos[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, C\}, x] \&\& \text{KnownSineIntegrandQ}[u, x]$
4723. $\text{Int}[(u_*)((A_*) + \csc[(a_*) + (b_*)(x_*)]*(C_*) + (B_*)\sin[(a_*) + (b_*)(x_*)]), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + A*\sin[a + b*x] + B*\sin[a + b*x]^2)/\sin[a + b*x]), x] /; \text{FreeQ}\{a, b, A, B, C\}, x]$
4724. $\text{Int}[(u_*)((A_*) + \cos[(a_*) + (b_*)(x_*)]*(B_*) + (C_*)\sec[(a_*) + (b_*)(x_*)]), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + A*\cos[a + b*x] + B*\cos[a + b*x]^2)/\cos[a + b*x]), x] /; \text{FreeQ}\{a, b, A, B, C\}, x]$
4725. $\text{Int}[(u_*)((A_*)\sin[(a_*) + (b_*)(x_)]^{(n_*)} + (B_*)\sin[(a_*) + (b_*)(x_)]^{(n1_*)} + (C_*)\sin[(a_*) + (b_*)(x_)]^{(n2_*)}), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*\sin[a + b*x]^n*(A + B*\sin[a + b*x] + C*\sin[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, B, C, n\}, x] \&\& \text{EqQ}[n1, n + 1] \&\& \text{EqQ}[n2, n + 2]$
4726. $\text{Int}[(\cos[(a_*) + (b_*)(x_)]^{(n_*)}(A_*) + \cos[(a_*) + (b_*)(x_)]^{(n1_*)}(B_*) + \cos[(a_*) + (b_*)(x_)]^{(n2_*)}(C_*))(u_*), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*\cos[a + b*x]^n*(A + B*\cos[a + b*x] + C*\cos[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, B, C, n\}, x] \&\& \text{EqQ}[n1, n + 1] \&\& \text{EqQ}[n2, n + 2]$
4727. $\text{Int}[(\cot[(a_*) + (b_*)(x_)]*(c_*)^{(m_*)}(u_*)((d_*)\tan[(a_*) + (b_*)(x_)]^{(n_*)}), x_Symbol] \rightarrow \text{Simp}[(c*\cot[a + b*x])^m*(d*\tan[a + b*x])^n, x] /; \text{FreeQ}\{a,$

$b, c, d, m, n\}$, $x]$ && KnownTangentIntegrandQ[u, x]

4728. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(d_.))^{\wedge}(n_.)(u_)*((c_.)*\tan[(a_.) + (b_.)(x_)])^{\wedge}(m_.), x_Symbol] \text{ :> Simp}[(c*\tan[a + b*x])^{\wedge}m*((d*\cos[a + b*x])^{\wedge}m/(d*\sin[a + b*x])^{\wedge}m) \text{ Int}[\text{ActivateTrig}[u]*((d*\sin[a + b*x])^{\wedge}m/(d*\cos[a + b*x])^{\wedge}(m - n)), x], x] /;$ FreeQ[{a, b, c, d, m, n}, x] && KnownCotangentIntegrandQ[u, x]

4729. $\text{Int}[(\cot[(a_.) + (b_.)(x_)]*(c_.))^{\wedge}(m_.)(u_), x_Symbol] \text{ :> Simp}[(c*\cot[a + b*x])^{\wedge}m*(c*\tan[a + b*x])^{\wedge}m \text{ Int}[\text{ActivateTrig}[u]/(c*\tan[a + b*x])^{\wedge}m, x], x] /;$ FreeQ[{a, b, c, m}, x] && !IntegerQ[m] && KnownTangentIntegrandQ[u, x]

4730. $\text{Int}[(u_)*((c_.)*\tan[(a_.) + (b_.)(x_)])^{\wedge}(m_.), x_Symbol] \text{ :> Simp}[(c*\cot[a + b*x])^{\wedge}m*(c*\tan[a + b*x])^{\wedge}m \text{ Int}[\text{ActivateTrig}[u]/(c*\cot[a + b*x])^{\wedge}m, x], x] /;$ FreeQ[{a, b, c, m}, x] && !IntegerQ[m] && KnownCotangentIntegrandQ[u, x]

4731. $\text{Int}[(\cot[(a_.) + (b_.)(x_)]*(B_.) + (A_.))(u_)*((c_.)*\tan[(a_.) + (b_.)(x_)])^{\wedge}(n_.), x_Symbol] \text{ :> Simp}[c \text{ Int}[\text{ActivateTrig}[u]*(c*\tan[a + b*x])^{\wedge}(n - 1)*(B + A*\tan[a + b*x]), x], x] /;$ FreeQ[{a, b, c, A, B, n}, x] && KnownTangentIntegrandQ[u, x]

4732. $\text{Int}[(\cot[(a_.) + (b_.)(x_)]*(c_.))^{\wedge}(n_.)(u_)*((A_.) + (B_.)*\tan[(a_.) + (b_.)(x_)])^{\wedge}(n_.), x_Symbol] \text{ :> Simp}[c \text{ Int}[\text{ActivateTrig}[u]*(c*\cot[a + b*x])^{\wedge}(n - 1)*(B + A*\cot[a + b*x]), x], x] /;$ FreeQ[{a, b, c, A, B, n}, x] && KnownCotangentIntegrandQ[u, x]

4733. $\text{Int}[(\cot[(a_.) + (b_.)(x_)]*(B_.) + (A_.))(u_), x_Symbol] \text{ :> Int}[\text{ActivateTrig}[u]*((B + A*\tan[a + b*x])/Tan[a + b*x]), x] /;$ FreeQ[{a, b, A, B}, x] && KnownTangentIntegrandQ[u, x]

4734. $\text{Int}[(u_)*((A_.) + (B_.)*\tan[(a_.) + (b_.)(x_)])^{\wedge}(n_.), x_Symbol] \text{ :> Int}[\text{ActivateTrig}[u]*((B + A*\cot[a + b*x])/Cot[a + b*x]), x] /;$ FreeQ[{a, b, A, B}, x] && KnownCotangentIntegrandQ[u, x]

4735. $\text{Int}[(A_.) + \cot[(a_.) + (b_.)(x_.)]*(B_.) + \cot[(a_.) + (b_.)(x_.)]^2*(C_.)]*(u_.)*((c_.)*\tan[(a_.) + (b_.)(x_.)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[c^2 \text{Int}[\text{ActivateTrig}[u]*(c*\tan[a + b*x])^{(n - 2)}*(C + B*\tan[a + b*x] + A*\tan[a + b*x]^2), x], x] /; \text{FreeQ}\{a, b, c, A, B, C, n\}, x\} \&\& \text{KnownTangentIntegrandQ}[u, x]$
4736. $\text{Int}[(\cot[(a_.) + (b_.)(x_.)]*(c_.))^{(n_.)}*(u_.)*((A_.) + (B_.)*\tan[(a_.) + (b_.)(x_.)] + (C_.)*\tan[(a_.) + (b_.)(x_.)]^2), x_Symbol] \rightarrow \text{Simp}[c^2 \text{Int}[\text{ActivateTrig}[u]*(c*\cot[a + b*x])^{(n - 2)}*(C + B*\cot[a + b*x] + A*\cot[a + b*x]^2), x], x] /; \text{FreeQ}\{a, b, c, A, B, C, n\}, x\} \&\& \text{KnownCotangentIntegrandQ}[u, x]$
4737. $\text{Int}[(u_.)*(\cot[(a_.) + (b_.)(x_.)]^2*(C_.) + (A_.))*((c_.)*\tan[(a_.) + (b_.)(x_.)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[c^2 \text{Int}[\text{ActivateTrig}[u]*(c*\tan[a + b*x])^{(n - 2)}*(C + A*\tan[a + b*x]^2), x], x] /; \text{FreeQ}\{a, b, c, A, C, n\}, x\} \&\& \text{KnownTangentIntegrandQ}[u, x]$
4738. $\text{Int}[(\cot[(a_.) + (b_.)(x_.)]*(c_.))^{(n_.)}*(u_.)*((A_.) + (C_.)*\tan[(a_.) + (b_.)(x_.)]^2), x_Symbol] \rightarrow \text{Simp}[c^2 \text{Int}[\text{ActivateTrig}[u]*(c*\cot[a + b*x])^{(n - 2)}*(C + A*\cot[a + b*x]^2), x], x] /; \text{FreeQ}\{a, b, c, A, C, n\}, x\} \&\& \text{KnownCotangentIntegrandQ}[u, x]$
4739. $\text{Int}[(A_.) + \cot[(a_.) + (b_.)(x_.)]*(B_.) + \cot[(a_.) + (b_.)(x_.)]^2*(C_.)]*(u_.), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + B*\tan[a + b*x] + A*\tan[a + b*x]^2)/\tan[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, B, C\}, x\} \&\& \text{KnownTangentIntegrandQ}[u, x]$
4740. $\text{Int}[(u_.)*((A_.) + (B_.)*\tan[(a_.) + (b_.)(x_.)] + (C_.)*\tan[(a_.) + (b_.)(x_.)]^2), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + B*\cot[a + b*x] + A*\cot[a + b*x]^2)/\cot[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, B, C\}, x\} \&\& \text{KnownCotangentIntegrandQ}[u, x]$
4741. $\text{Int}[(\cot[(a_.) + (b_.)(x_.)]^2*(C_.) + (A_.))*(u_.), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + A*\tan[a + b*x]^2)/\tan[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, C\}, x\} \&\& \text{KnownTangentIntegrandQ}[u, x]$

4742. $\text{Int}[(u_*)((A_*) + (C_*)\tan[(a_*) + (b_*)(x_)]^2), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + A*\text{Cot}[a + b*x]^2)/\text{Cot}[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, C\}, x] \ \&\& \ \text{KnownCotangentIntegrandQ}[u, x]$
4743. $\text{Int}[(u_*)((A_*) + \text{cot}[(a_*) + (b_*)(x_)]*(C_*) + (B_*)\tan[(a_*) + (b_*)(x_)]), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((C + A*\text{Tan}[a + b*x] + B*\text{Tan}[a + b*x]^2)/\text{Tan}[a + b*x]), x] /; \text{FreeQ}\{a, b, A, B, C\}, x]$
4744. $\text{Int}[(u_*)((A_*)\tan[(a_*) + (b_*)(x_)]^{(n_*)} + (B_*)\tan[(a_*) + (b_*)(x_)]^{(n1_*)} + (C_*)\tan[(a_*) + (b_*)(x_)]^{(n2_*)}), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*\text{Tan}[a + b*x]^n*(A + B*\text{Tan}[a + b*x] + C*\text{Tan}[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, B, C, n\}, x] \ \&\& \ \text{EqQ}[n1, n + 1] \ \&\& \ \text{EqQ}[n2, n + 2]$
4745. $\text{Int}[(\text{cot}[(a_*) + (b_*)(x_)]^{(n_*)}(A_*) + \text{cot}[(a_*) + (b_*)(x_)]^{(n1_*)}(B_*) + \text{cot}[(a_*) + (b_*)(x_)]^{(n2_*)}(C_*))*(u_), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*\text{Cot}[a + b*x]^n*(A + B*\text{Cot}[a + b*x] + C*\text{Cot}[a + b*x]^2), x] /; \text{FreeQ}\{a, b, A, B, C, n\}, x] \ \&\& \ \text{EqQ}[n1, n + 1] \ \&\& \ \text{EqQ}[n2, n + 2]$
4746. $\text{Int}[(\text{csc}[(a_*) + (b_*)(x_)]*(d_*))^{(n_*)}(u_*)((c_*)\sin[(a_*) + (b_*)(x_)]^{(m_*)}), x_Symbol] \rightarrow \text{Simp}[(c*\text{Sin}[a + b*x])^m*(d*\text{Csc}[a + b*x])^n \text{Int}[\text{ActivateTrig}[u]*(d*\text{Csc}[a + b*x])^{(n - m)}, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \ \&\& \ \text{KnownSecantIntegrandQ}[u, x]$
4747. $\text{Int}[(\cos[(a_*) + (b_*)(x_)]*(c_*))^{(m_*)}(u_*)((d_*)\sec[(a_*) + (b_*)(x_)]^{(n_*)}), x_Symbol] \rightarrow \text{Simp}[(c*\text{Cos}[a + b*x])^m*(d*\text{Sec}[a + b*x])^n \text{Int}[\text{ActivateTrig}[u]*(d*\text{Sec}[a + b*x])^{(n - m)}, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \ \&\& \ \text{KnownSecantIntegrandQ}[u, x]$
4748. $\text{Int}[(u_*)((d_*)\sec[(a_*) + (b_*)(x_)]^{(n_*)}((c_*)\tan[(a_*) + (b_*)(x_)]^{(m_*)}), x_Symbol] \rightarrow \text{Simp}[(c*\text{Tan}[a + b*x])^m*((d*\text{Csc}[a + b*x])^m/(d*\text{Sec}[a + b*x])^m) \text{Int}[\text{ActivateTrig}[u]*((d*\text{Sec}[a + b*x])^{(m + n)})/(d*\text{Csc}[a + b*x])^m), x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \ \&\& \ \text{KnownSecantIntegrandQ}[u, x] \ \&\& \ !\text{IntegerQ}[m]$

4749. $\text{Int}[(\text{csc}[a + b x] + (b_*)x)^{m_*} (d_*)^{n_*} (u_*) ((c_*) \tan[a + b x] + (b_*)x)^{m_*}]$, x_Symbol] \rightarrow $\text{Simp}[(c_* \tan[a + b x])^m ((d_* \text{Csc}[a + b x])^m / (d_* \text{Sec}[a + b x])^m) \text{Int}[\text{ActivateTrig}[u_*] ((d_* \text{Sec}[a + b x])^m / (d_* \text{Csc}[a + b x])^{m-n})]$, x], x] /; $\text{FreeQ}\{a, b, c, d, m, n\}, x$ && $\text{KnownSecantIntegrandQ}[u, x]$ && $\text{IntegerQ}[m]$
4750. $\text{Int}[(\text{cot}[a + b x] + (b_*)x)^{m_*} (c_*)^{n_*} (u_*) ((d_*) \sec[a + b x] + (b_*)x)^{n_*}]$, x_Symbol] \rightarrow $\text{Simp}[(c_* \cot[a + b x])^m ((d_* \text{Sec}[a + b x])^m / (d_* \text{Csc}[a + b x])^m) \text{Int}[\text{ActivateTrig}[u_*] ((d_* \text{Csc}[a + b x])^m / (d_* \text{Sec}[a + b x])^{m-n})]$, x], x] /; $\text{FreeQ}\{a, b, c, d, m, n\}, x$ && $\text{KnownSecantIntegrandQ}[u, x]$ && $\text{IntegerQ}[m]$
4751. $\text{Int}[(\text{cot}[a + b x] + (b_*)x)^{m_*} (c_*)^{n_*} (\text{csc}[a + b x] + (b_*)x)^{m_*} (d_*)^{n_*} (u_*)]$, x_Symbol] \rightarrow $\text{Simp}[(c_* \cot[a + b x])^m ((d_* \text{Sec}[a + b x])^m / (d_* \text{Csc}[a + b x])^m) \text{Int}[\text{ActivateTrig}[u_*] ((d_* \text{Csc}[a + b x])^{m+n} / (d_* \text{Sec}[a + b x])^m)]$, x], x] /; $\text{FreeQ}\{a, b, c, d, m, n\}, x$ && $\text{KnownSecantIntegrandQ}[u, x]$ && $\text{IntegerQ}[m]$
4752. $\text{Int}[(u_*) ((c_*) \sin[a + b x] + (b_*)x)^{m_*}]$, x_Symbol] \rightarrow $\text{Simp}[(c_* \text{Csc}[a + b x])^m (c_* \sin[a + b x])^m \text{Int}[\text{ActivateTrig}[u_*] / (c_* \text{Csc}[a + b x])^m]$, x], x] /; $\text{FreeQ}\{a, b, c, m\}, x$ && $\text{IntegerQ}[m]$ && $\text{KnownSecantIntegrandQ}[u, x]$
4753. $\text{Int}[(\cos[a + b x] + (b_*)x)^{m_*} (c_*)^{n_*} (u_*)]$, x_Symbol] \rightarrow $\text{Simp}[(c_* \cos[a + b x])^m (c_* \text{Sec}[a + b x])^m \text{Int}[\text{ActivateTrig}[u_*] / (c_* \text{Sec}[a + b x])^m]$, x], x] /; $\text{FreeQ}\{a, b, c, m\}, x$ && $\text{IntegerQ}[m]$ && $\text{KnownSecantIntegrandQ}[u, x]$
4754. $\text{Int}[(u_*) ((c_*) \tan[a + b x] + (b_*)x)^{m_*}]$, x_Symbol] \rightarrow $\text{Simp}[(c_* \tan[a + b x])^m ((c_* \text{Csc}[a + b x])^m / (c_* \text{Sec}[a + b x])^m) \text{Int}[\text{ActivateTrig}[u_*] ((c_* \text{Sec}[a + b x])^m / (c_* \text{Csc}[a + b x])^m)]$, x], x] /; $\text{FreeQ}\{a, b, c, m\}, x$ && $\text{IntegerQ}[m]$ && $\text{KnownSecantIntegrandQ}[u, x]$
4755. $\text{Int}[(\text{cot}[a + b x] + (b_*)x)^{m_*} (c_*)^{n_*} (u_*)]$, x_Symbol] \rightarrow $\text{Simp}[(c_* \cot[a + b x])^m ((c_* \text{Sec}[a + b x])^m / (c_* \text{Csc}[a + b x])^m) \text{Int}[\text{ActivateTrig}[u_*] ((c_* \text{Csc}[a + b x])^m / (c_* \text{Sec}[a + b x])^m)]$, x], x] /; $\text{FreeQ}\{a, b,$

- $c, m\}, x] \&\& \text{!IntegerQ}[m] \&\& \text{KnownSecantIntegrandQ}[u, x]$
4756. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(B_.) + (A_.))*(u_)*((c_.)*\sec[(a_.) + (b_.)(x_)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[c \text{ Int}[\text{ActivateTrig}[u]*(c*\sec[a + b*x])^{(n - 1)}*(B + A*\sec[a + b*x]), x], x] /; \text{FreeQ}[\{a, b, c, A, B, n\}, x] \&\& \text{KnownSecantIntegrandQ}[u, x]$
4757. $\text{Int}[(\csc[(a_.) + (b_.)(x_)]*(c_.))^{(n_.)}*(u_)*((A_.) + (B_.)*\sin[(a_.) + (b_.)(x_)]), x_Symbol] \rightarrow \text{Simp}[c \text{ Int}[\text{ActivateTrig}[u]*(c*\csc[a + b*x])^{(n - 1)}*(B + A*\csc[a + b*x]), x], x] /; \text{FreeQ}[\{a, b, c, A, B, n\}, x] \&\& \text{KnownSecantIntegrandQ}[u, x]$
4758. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(B_.) + (A_.))*(u_), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((B + A*\sec[a + b*x])/(\sec[a + b*x])), x] /; \text{FreeQ}[\{a, b, A, B\}, x] \&\& \text{KnownSecantIntegrandQ}[u, x]$
4759. $\text{Int}[(u_)*((A_.) + (B_.)*\sin[(a_.) + (b_.)(x_)]), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u]*((B + A*\csc[a + b*x])/(\csc[a + b*x])), x] /; \text{FreeQ}[\{a, b, A, B\}, x] \&\& \text{KnownSecantIntegrandQ}[u, x]$
4760. $\text{Int}[(A_.) + \cos[(a_.) + (b_.)(x_)]*(B_.) + \cos[(a_.) + (b_.)(x_)]^2*(C_.)*(u_)*((c_.)*\sec[(a_.) + (b_.)(x_)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[c^2 \text{ Int}[\text{ActivateTrig}[u]*(c*\sec[a + b*x])^{(n - 2)}*(C + B*\sec[a + b*x] + A*\sec[a + b*x]^2), x], x] /; \text{FreeQ}[\{a, b, c, A, B, C, n\}, x] \&\& \text{KnownSecantIntegrandQ}[u, x]$
4761. $\text{Int}[(\csc[(a_.) + (b_.)(x_)]*(c_.))^{(n_.)}*(u_)*((A_.) + (B_.)*\sin[(a_.) + (b_.)(x_)] + (C_.)*\sin[(a_.) + (b_.)(x_)]^2), x_Symbol] \rightarrow \text{Simp}[c^2 \text{ Int}[\text{ActivateTrig}[u]*(c*\csc[a + b*x])^{(n - 2)}*(C + B*\csc[a + b*x] + A*\csc[a + b*x]^2), x], x] /; \text{FreeQ}[\{a, b, c, A, B, C, n\}, x] \&\& \text{KnownSecantIntegrandQ}[u, x]$
4762. $\text{Int}[(u_)*(\cos[(a_.) + (b_.)(x_)]^2*(C_.) + (A_.))*((c_.)*\sec[(a_.) + (b_.)(x_)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[c^2 \text{ Int}[\text{ActivateTrig}[u]*(c*\sec[a + b*x])^{(n - 2)}*(C + A*\sec[a + b*x]^2), x], x] /; \text{FreeQ}[\{a, b, c, A, C, n\}, x] \&\& \text{KnownSecantIntegrandQ}[u, x]$

4763. $\text{Int}[(\text{csc}[a_.] + (b_.) \cdot (x_.)^2) \cdot (c_.)^{(n_.)} \cdot (u_.) \cdot ((A_.) + (C_.) \cdot \sin[(a_.) + (b_.) \cdot (x_.)^2]), x_Symbol] \rightarrow \text{Simp}[c^2 \text{Int}[\text{ActivateTrig}[u] \cdot (c \cdot \text{Csc}[a + b \cdot x])^{(n-2)} \cdot (C + A \cdot \text{Csc}[a + b \cdot x]^2), x], x] /;$ $\text{FreeQ}\{a, b, c, A, C, n\}, x]$ && $\text{KnownSecantIntegrandQ}[u, x]$
4764. $\text{Int}[(A_.) + \cos[(a_.) + (b_.) \cdot (x_.)^2] \cdot (B_.) + \cos[(a_.) + (b_.) \cdot (x_.)^2] \cdot (C_.) \cdot (u_.)], x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] \cdot ((C + B \cdot \text{Sec}[a + b \cdot x] + A \cdot \text{Sec}[a + b \cdot x]^2) / \text{Sec}[a + b \cdot x]^2), x] /;$ $\text{FreeQ}\{a, b, A, B, C\}, x]$ && $\text{KnownSecantIntegrandQ}[u, x]$
4765. $\text{Int}[(u_.) \cdot ((A_.) + (B_.) \cdot \sin[(a_.) + (b_.) \cdot (x_.)^2] + (C_.) \cdot \sin[(a_.) + (b_.) \cdot (x_.)^2]), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] \cdot ((C + B \cdot \text{Csc}[a + b \cdot x] + A \cdot \text{Csc}[a + b \cdot x]^2) / \text{Csc}[a + b \cdot x]^2), x] /;$ $\text{FreeQ}\{a, b, A, B, C\}, x]$ && $\text{KnownSecantIntegrandQ}[u, x]$
4766. $\text{Int}[(\cos[(a_.) + (b_.) \cdot (x_.)^2] \cdot (C_.) + (A_.) \cdot (u_.)], x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] \cdot ((C + A \cdot \text{Sec}[a + b \cdot x]^2) / \text{Sec}[a + b \cdot x]^2), x] /;$ $\text{FreeQ}\{a, b, A, C\}, x]$ && $\text{KnownSecantIntegrandQ}[u, x]$
4767. $\text{Int}[(u_.) \cdot ((A_.) + (C_.) \cdot \sin[(a_.) + (b_.) \cdot (x_.)^2]), x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] \cdot ((C + A \cdot \text{Csc}[a + b \cdot x]^2) / \text{Csc}[a + b \cdot x]^2), x] /;$ $\text{FreeQ}\{a, b, A, C\}, x]$ && $\text{KnownSecantIntegrandQ}[u, x]$
4768. $\text{Int}[(u_.) \cdot ((A_.) \cdot \sec[(a_.) + (b_.) \cdot (x_.)^{(n_.)}] + (B_.) \cdot \sec[(a_.) + (b_.) \cdot (x_.)^{(n1_.)}] + (C_.) \cdot \sec[(a_.) + (b_.) \cdot (x_.)^{(n2_.)})], x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] \cdot \text{Sec}[a + b \cdot x]^{n_} \cdot (A + B \cdot \text{Sec}[a + b \cdot x] + C \cdot \text{Sec}[a + b \cdot x]^2), x] /;$ $\text{FreeQ}\{a, b, A, B, C, n\}, x]$ && $\text{EqQ}[n1, n + 1]$ && $\text{EqQ}[n2, n + 2]$
4769. $\text{Int}[(\text{csc}[a_.] + (b_.) \cdot (x_.)^{(n_.)}) \cdot (A_.) + \text{csc}[a_.] + (b_.) \cdot (x_.)^{(n1_.)} \cdot (B_.) + \text{csc}[a_.] + (b_.) \cdot (x_.)^{(n2_.)} \cdot (C_.) \cdot (u_.)], x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u] \cdot \text{Csc}[a + b \cdot x]^{n_} \cdot (A + B \cdot \text{Csc}[a + b \cdot x] + C \cdot \text{Csc}[a + b \cdot x]^2), x] /;$ $\text{FreeQ}\{a, b, A, B, C, n\}, x]$ && $\text{EqQ}[n1, n + 1]$ && $\text{EqQ}[n2, n + 2]$

4770. $\text{Int}[\sin[(a_.) + (b_.)(x_)]*\sin[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[\text{Sin}[a - c + (b - d)*x]/(2*(b - d)), x] - \text{Simp}[\text{Sin}[a + c + (b + d)*x]/(2*(b + d)), x] /; \text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{NeQ}[b^2 - d^2, 0]$
4771. $\text{Int}[\cos[(a_.) + (b_.)(x_)]*\cos[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[\text{Sin}[a - c + (b - d)*x]/(2*(b - d)), x] + \text{Simp}[\text{Sin}[a + c + (b + d)*x]/(2*(b + d)), x] /; \text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{NeQ}[b^2 - d^2, 0]$
4772. $\text{Int}[\cos[(c_.) + (d_.)(x_)]*\sin[(a_.) + (b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[-\text{Cos}[a - c + (b - d)*x]/(2*(b - d)), x] - \text{Simp}[\text{Cos}[a + c + (b + d)*x]/(2*(b + d)), x] /; \text{FreeQ}\{a, b, c, d\}, x\} \ \&\& \ \text{NeQ}[b^2 - d^2, 0]$
4773. $\text{Int}[\cos[(a_.) + (b_.)(x_)]^2*((g_.)*\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[1/2 \ \text{Int}[(g*\text{Sin}[c + d*x])^p, x], x] + \text{Simp}[1/2 \ \text{Int}[\text{Cos}[c + d*x]*(g*\text{Sin}[c + d*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, g\}, x\} \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ \text{IGtQ}[p/2, 0]$
4774. $\text{Int}[\sin[(a_.) + (b_.)(x_)]^2*((g_.)*\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[1/2 \ \text{Int}[(g*\text{Sin}[c + d*x])^p, x], x] - \text{Simp}[1/2 \ \text{Int}[\text{Cos}[c + d*x]*(g*\text{Sin}[c + d*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, g\}, x\} \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ \text{IGtQ}[p/2, 0]$
4775. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^m*\sin[(c_.) + (d_.)(x_)]^p, x_Symbol] \rightarrow \text{Simp}[2^p/e^p \ \text{Int}[(e*\text{Cos}[a + b*x])^{m+p}*\text{Sin}[a + b*x]^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x\} \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ \text{IntegerQ}[p]$
4776. $\text{Int}[(f_.)*\sin[(a_.) + (b_.)(x_)]^n*\sin[(c_.) + (d_.)(x_)]^p, x_Symbol] \rightarrow \text{Simp}[2^p/f^p \ \text{Int}[\text{Cos}[a + b*x]^p*(f*\text{Sin}[a + b*x])^{n+p}, x], x] /; \text{FreeQ}\{a, b, c, d, f, n\}, x\} \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ \text{IntegerQ}[p]$
4777. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^m*((g_.)*\sin[(c_.) + (d_.)(x_)]^p), x_Symbol] \rightarrow \text{Simp}[e^{2*(e*\text{Cos}[a + b*x])^{m-2}}*((g*\text{Sin}[c + d*x])^{p+1})/(2*b*g*(p+1)), x] /; \text{FreeQ}\{a, b, c, d, e, g, m, p\}, x\} \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ \text{!IntegerQ}[p] \ \&\& \ \text{EqQ}[m + p - 1$

- , 0]
4778. $\text{Int}[(e_{.})\sin[a_{.}] + (b_{.})(x_{.})]^{(m_{.})}((g_{.})\sin[c_{.}] + (d_{.})(x_{.}))^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(-e^2)(e\sin[a + b*x])^{(m - 2)}((g\sin[c + d*x])^{(p + 1)} / (2*b*g*(p + 1))), x] /; \text{FreeQ}\{a, b, c, d, e, g, m, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[m + p - 1, 0]$
4779. $\text{Int}[(\cos[a_{.}] + (b_{.})(x_{.}))*(e_{.})]^{(m_{.})}((g_{.})\sin[c_{.}] + (d_{.})(x_{.}))^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(-e*\cos[a + b*x])^m * (g*\sin[c + d*x])^{(p + 1)} / (b*g*m), x] /; \text{FreeQ}\{a, b, c, d, e, g, m, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[m + 2*p + 2, 0]$
4780. $\text{Int}[(e_{.})\sin[a_{.}] + (b_{.})(x_{.})]^{(m_{.})}((g_{.})\sin[c_{.}] + (d_{.})(x_{.}))^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(e*\sin[a + b*x])^m * (g*\sin[c + d*x])^{(p + 1)} / (b*g*m), x] /; \text{FreeQ}\{a, b, c, d, e, g, m, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[m + 2*p + 2, 0]$
4781. $\text{Int}[(\cos[a_{.}] + (b_{.})(x_{.}))*(e_{.})]^{(m_{.})}((g_{.})\sin[c_{.}] + (d_{.})(x_{.}))^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[e^2*(e*\cos[a + b*x])^{(m - 2)} * (g*\sin[c + d*x])^{(p + 1)} / (2*b*g*(p + 1)), x] + \text{Simp}[e^4*((m + p - 1) / (4*g^2*(p + 1))) \text{Int}[(e*\cos[a + b*x])^{(m - 4)} * (g*\sin[c + d*x])^{(p + 2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, g\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[m, 2] \&\& \text{LtQ}[p, -1] \&\& (\text{GtQ}[m, 3] || \text{EqQ}[p, -3/2]) \&\& \text{IntegersQ}[2*m, 2*p]$
4782. $\text{Int}[(e_{.})\sin[a_{.}] + (b_{.})(x_{.})]^{(m_{.})}((g_{.})\sin[c_{.}] + (d_{.})(x_{.}))^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(-e^2)(e*\sin[a + b*x])^{(m - 2)} * (g*\sin[c + d*x])^{(p + 1)} / (2*b*g*(p + 1)), x] + \text{Simp}[e^4*((m + p - 1) / (4*g^2*(p + 1))) \text{Int}[(e*\sin[a + b*x])^{(m - 4)} * (g*\sin[c + d*x])^{(p + 2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, g\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[m, 2] \&\& \text{LtQ}[p, -1] \&\& (\text{GtQ}[m, 3] || \text{EqQ}[p, -3/2]) \&\& \text{IntegersQ}[2*m, 2*p]$
4783. $\text{Int}[(\cos[a_{.}] + (b_{.})(x_{.}))*(e_{.})]^{(m_{.})}((g_{.})\sin[c_{.}] + (d_{.})(x_{.}))^{(p_{.})}, x_Symbol] \rightarrow \text{Simp}[(e*\cos[a + b*x])^m * (g*\sin[c + d*x])^{(p + 1)} / (2*b*g*(p + 1)), x] + \text{Simp}[e^2*((m + 2*p + 2) / (4*g^2*(p + 1))) \text{In}$

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t[(e*cos[a + b*x])^(m - 2)*(g*sin[c + d*x])^(p + 2), x], x] /; FreeQ[{
a, b, c, d, e, g}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2] && !Integer
Q[p] && GtQ[m, 1] && LtQ[p, -1] && NeQ[m + 2*p + 2, 0] && (LtQ[p, -2]
|| EqQ[m, 2]) && IntegersQ[2*m, 2*p]

4784. Int[((e._)*sin[(a._) + (b._)*(x_)])^(m_)*((g._)*sin[(c._) + (d._)*(x_)
])^(p_), x_Symbol] :> Simp[(-e*sin[a + b*x])^m*(g*sin[c + d*x])^(p
+ 1)/(2*b*g*(p + 1)), x] + Simp[e^2*((m + 2*p + 2)/(4*g^2*(p + 1)))
Int[(e*sin[a + b*x])^(m - 2)*(g*sin[c + d*x])^(p + 2), x], x] /; Free
Q[{a, b, c, d, e, g}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2] && !Inte
gerQ[p] && GtQ[m, 1] && LtQ[p, -1] && NeQ[m + 2*p + 2, 0] && (LtQ[p, -
2] || EqQ[m, 2]) && IntegersQ[2*m, 2*p]

4785. Int[(cos[(a._) + (b._)*(x_)]*(e._))^(m_)*((g._)*sin[(c._) + (d._)*(x_)
])^(p_), x_Symbol] :> Simp[e^2*(e*cos[a + b*x])^(m - 2)*((g*sin[c + d*
x])^(p + 1)/(2*b*g*(m + 2*p))), x] + Simp[e^2*(m + p - 1)/(m + 2*p))
Int[(e*cos[a + b*x])^(m - 2)*(g*sin[c + d*x])^p, x], x] /; FreeQ[{a,
b, c, d, e, g, p}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2] && !Intege
rQ[p] && GtQ[m, 1] && NeQ[m + 2*p, 0] && IntegersQ[2*m, 2*p]

4786. Int[((e._)*sin[(a._) + (b._)*(x_)])^(m_)*((g._)*sin[(c._) + (d._)*(x_)
])^(p_), x_Symbol] :> Simp[(-e^2)*(e*sin[a + b*x])^(m - 2)*((g*sin[c +
d*x])^(p + 1)/(2*b*g*(m + 2*p))), x] + Simp[e^2*(m + p - 1)/(m + 2*p
)) Int[(e*sin[a + b*x])^(m - 2)*(g*sin[c + d*x])^p, x], x] /; FreeQ[
{a, b, c, d, e, g, p}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2] && !Int
egerQ[p] && GtQ[m, 1] && NeQ[m + 2*p, 0] && IntegersQ[2*m, 2*p]

4787. Int[(cos[(a._) + (b._)*(x_)]*(e._))^(m_)*((g._)*sin[(c._) + (d._)*(x_)
])^(p_), x_Symbol] :> Simp[(-e*cos[a + b*x])^m*(g*sin[c + d*x])^(p
+ 1)/(2*b*g*(m + p + 1)), x] + Simp[(m + 2*p + 2)/(e^2*(m + p + 1))
Int[(e*cos[a + b*x])^(m + 2)*(g*sin[c + d*x])^p, x], x] /; FreeQ[{a,
b, c, d, e, g, p}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2] && !Integer
Q[p] && LtQ[m, -1] && NeQ[m + 2*p + 2, 0] && NeQ[m + p + 1, 0] && Inte
gersQ[2*m, 2*p]

4788. Int[((e._)*sin[(a._) + (b._)*(x_)])^(m_)*((g._)*sin[(c._) + (d._)*(x_)
])^(p_), x_Symbol] :> Simp[(e*sin[a + b*x])^m*(g*sin[c + d*x])^(p + 1

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- $$\frac{1}{(2bg(m+p+1))}, x] + \text{Simp}[(m+2p+2)/(e^{2(m+p+1)}) \text{Int}[(e \sin[a+bx])^{m+2}(g \sin[c+dx])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, g, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[m+2p+2, 0] \&\& \text{NeQ}[m+p+1, 0] \&\& \text{IntegerS}[2*m, 2*p]$$
4789.  $\text{Int}[\cos[(a_.) + (b_.)(x_.)] * ((g_.) \sin[(c_.) + (d_.)(x_.)])^{(p_.)}, x\_Symbol] :> \text{Simp}[2 \sin[a+bx] * ((g \sin[c+dx])^p / (d(2p+1))), x] + \text{Simp}[2p * (g / (2p+1)) \text{Int}[\sin[a+bx] * (g \sin[c+dx])^{(p-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, g\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[p, 0] \&\& \text{IntegerQ}[2*p]$
4790.  $\text{Int}[\sin[(a_.) + (b_.)(x_.)] * ((g_.) \sin[(c_.) + (d_.)(x_.)])^{(p_.)}, x\_Symbol] :> \text{Simp}[-2 \cos[a+bx] * ((g \sin[c+dx])^p / (d(2p+1))), x] + \text{Simp}[2p * (g / (2p+1)) \text{Int}[\cos[a+bx] * (g \sin[c+dx])^{(p-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, g\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[p, 0] \&\& \text{IntegerQ}[2*p]$
4791.  $\text{Int}[\cos[(a_.) + (b_.)(x_.)] * ((g_.) \sin[(c_.) + (d_.)(x_.)])^{(p_.)}, x\_Symbol] :> \text{Simp}[\cos[a+bx] * ((g \sin[c+dx])^{(p+1)} / (2bg^{(p+1)})), x] + \text{Simp}[(2p+3) / (2g^{(p+1)}) \text{Int}[\sin[a+bx] * (g \sin[c+dx])^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, g\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2*p]$
4792.  $\text{Int}[\sin[(a_.) + (b_.)(x_.)] * ((g_.) \sin[(c_.) + (d_.)(x_.)])^{(p_.)}, x\_Symbol] :> \text{Simp}[(-\sin[a+bx]) * ((g \sin[c+dx])^{(p+1)} / (2bg^{(p+1)})), x] + \text{Simp}[(2p+3) / (2g^{(p+1)}) \text{Int}[\cos[a+bx] * (g \sin[c+dx])^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, g\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[p, -1] \&\& \text{IntegerQ}[2*p]$
4793.  $\text{Int}[\cos[(a_.) + (b_.)(x_.)] / \text{Sqrt}[\sin[(c_.) + (d_.)(x_.)]], x\_Symbol] :> \text{Simp}[-\text{ArcSin}[\cos[a+bx] - \sin[a+bx]] / d, x] + \text{Simp}[\text{Log}[\cos[a+bx] + \sin[a+bx] + \text{Sqrt}[\sin[c+dx]]] / d, x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2]$
4794.  $\text{Int}[\sin[(a_.) + (b_.)(x_.)] / \text{Sqrt}[\sin[(c_.) + (d_.)(x_.)]], x\_Symbol] :> \text{Simp}[-\text{ArcSin}[\cos[a+bx] - \sin[a+bx]] / d, x] - \text{Simp}[\text{Log}[\cos[a+bx]$

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*x] + Sin[a + b*x] + Sqrt[Sin[c + d*x]]/d, x] /; FreeQ[{a, b, c, d},
x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2]

4795. Int[((g_.)*sin[(c_.) + (d_.)*(x_)])^(p_)/cos[(a_.) + (b_.)*(x_)], x_Sy
mbol] :> Simp[2*g Int[Sin[a + b*x]*(g*Sin[c + d*x])^(p - 1), x], x]
/; FreeQ[{a, b, c, d, g, p}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2] &&
!IntegerQ[p] && IntegerQ[2*p]

4796. Int[((g_.)*sin[(c_.) + (d_.)*(x_)])^(p_)/sin[(a_.) + (b_.)*(x_)], x_Sy
mbol] :> Simp[2*g Int[Cos[a + b*x]*(g*Sin[c + d*x])^(p - 1), x], x]
/; FreeQ[{a, b, c, d, g, p}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2] &&
!IntegerQ[p] && IntegerQ[2*p]

4797. Int[(cos[(a_.) + (b_.)*(x_)])*(e_.)^(m_.)*((g_.)*sin[(c_.) + (d_.)*(x_
)])^(p_), x_Symbol] :> Simp[(g*Sin[c + d*x])^p/((e*Cos[a + b*x])^p*Sin
[a + b*x]^p) Int[(e*Cos[a + b*x])^(m + p)*Sin[a + b*x]^p, x], x] /;
FreeQ[{a, b, c, d, e, g, m, p}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2]
&& !IntegerQ[p]

4798. Int[((f_.)*sin[(a_.) + (b_.)*(x_)])^(n_.)*((g_.)*sin[(c_.) + (d_.)*(x_
)])^(p_), x_Symbol] :> Simp[(g*Sin[c + d*x])^p/(Cos[a + b*x]^p*(f*Sin[
a + b*x]^p) Int[Cos[a + b*x]^p*(f*Sin[a + b*x])^(n + p), x], x] /;
FreeQ[{a, b, c, d, f, g, n, p}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2]
&& !IntegerQ[p]

4799. Int[cos[(a_.) + (b_.)*(x_)]^2*sin[(a_.) + (b_.)*(x_)]^2*((g_.)*sin[(c_
.) + (d_.)*(x_)])^(p_), x_Symbol] :> Simp[1/4 Int[(g*Sin[c + d*x])^p
, x], x] - Simp[1/4 Int[Cos[c + d*x]^2*(g*Sin[c + d*x])^p, x], x] /;
FreeQ[{a, b, c, d, g}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2] && IGtQ
[p/2, 0]

4800. Int[(cos[(a_.) + (b_.)*(x_)])*(e_.)^(m_.)*((f_.)*sin[(a_.) + (b_.)*(x_
)])^(n_.)*sin[(c_.) + (d_.)*(x_)]^(p_.), x_Symbol] :> Simp[2^p/(e^p*f^
p) Int[(e*Cos[a + b*x])^(m + p)*(f*Sin[a + b*x])^(n + p), x], x] /;
FreeQ[{a, b, c, d, e, f, m, n}, x] && EqQ[b*c - a*d, 0] && EqQ[d/b, 2]
&& IntegerQ[p]

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4801. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^{\wedge}(m_.)*((f_.)*\sin[(a_.) + (b_.)(x_)])^{\wedge}(n_.)*((g_.)*\sin[(c_.) + (d_.)(x_)])^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[e*(e * \text{Cos}[a + b*x])^{\wedge}(m - 1)*(f*\text{Sin}[a + b*x])^{\wedge}(n + 1)*((g*\text{Sin}[c + d*x])^{\wedge}p/(b * f*(n + p + 1))), x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[m + p + 1, 0]$
4802. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(f_.))^{\wedge}(n_.)*((e_.)*\sin[(a_.) + (b_.)(x_)])^{\wedge}(m_.)*((g_.)*\sin[(c_.) + (d_.)(x_)])^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[(-e)*(e*\text{Sin}[a + b*x])^{\wedge}(m - 1)*(f*\text{Cos}[a + b*x])^{\wedge}(n + 1)*((g*\text{Sin}[c + d*x])^{\wedge}p/(b*f*(n + p + 1))), x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[m + p + 1, 0]$
4803. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^{\wedge}(m_.)*((f_.)*\sin[(a_.) + (b_.)(x_)])^{\wedge}(n_.)*((g_.)*\sin[(c_.) + (d_.)(x_)])^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[(-e * \text{Cos}[a + b*x])^{\wedge}(m + 1)*(f*\text{Sin}[a + b*x])^{\wedge}(n + 1)*((g*\text{Sin}[c + d*x])^{\wedge}p/(b*e*f*(m + p + 1))), x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{EqQ}[m + n + 2*p + 2, 0] \&\& \text{NeQ}[m + p + 1, 0]$
4804. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^{\wedge}(m_.)*((f_.)*\sin[(a_.) + (b_.)(x_)])^{\wedge}(n_.)*((g_.)*\sin[(c_.) + (d_.)(x_)])^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[e^2*(e * \text{Cos}[a + b*x])^{\wedge}(m - 2)*(f*\text{Sin}[a + b*x])^{\wedge}n*((g*\text{Sin}[c + d*x])^{\wedge}(p + 1)/(2 * b*g*(n + p + 1))), x] + \text{Simp}[e^4*((m + p - 1)/(4*g^2*(n + p + 1)) \text{Int}[(e*\text{Cos}[a + b*x])^{\wedge}(m - 4)*(f*\text{Sin}[a + b*x])^{\wedge}n*(g*\text{Sin}[c + d*x])^{\wedge}(p + 2), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[m, 3] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[n + p + 1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$
4805. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(f_.))^{\wedge}(n_.)*((e_.)*\sin[(a_.) + (b_.)(x_)])^{\wedge}(m_.)*((g_.)*\sin[(c_.) + (d_.)(x_)])^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[(-e^2) * (e*\text{Sin}[a + b*x])^{\wedge}(m - 2)*(f*\text{Cos}[a + b*x])^{\wedge}n*((g*\text{Sin}[c + d*x])^{\wedge}(p + 1)/(2*b*g*(n + p + 1))), x] + \text{Simp}[e^4*((m + p - 1)/(4*g^2*(n + p + 1)) \text{Int}[(e*\text{Sin}[a + b*x])^{\wedge}(m - 4)*(f*\text{Cos}[a + b*x])^{\wedge}n*(g*\text{Sin}[c + d*x])^{\wedge}(p + 2), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[m, 3] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[n + p + 1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$

4806. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^m*((f_.)*\sin[(a_.) + (b_.)(x_)])^n*((g_.)*\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[(e*\text{Cos}[a + b*x])^m*(f*\text{Sin}[a + b*x])^n*((g*\text{Sin}[c + d*x])^{p+1}/(2*b*g*(n+p+1))), x] + \text{Simp}[e^{2*((m+n+2*p+2)/(4*g^2*(n+p+1))}] \text{Int}[(e*\text{Cos}[a + b*x])^{m-2}*(f*\text{Sin}[a + b*x])^n*(g*\text{Sin}[c + d*x])^{p+2}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[m, 1] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[m+n+2*p+2, 0] \&\& \text{NeQ}[n+p+1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p] \&\& (\text{LtQ}[p, -2] || \text{EqQ}[m, 2] || \text{EqQ}[m, 3])$
4807. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(f_.))^m*((e_.)*\sin[(a_.) + (b_.)(x_)])^n*((g_.)*\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[(-e*\text{Sin}[a + b*x])^m*(f*\text{Cos}[a + b*x])^n*((g*\text{Sin}[c + d*x])^{p+1}/(2*b*g*(n+p+1))), x] + \text{Simp}[e^{2*((m+n+2*p+2)/(4*g^2*(n+p+1))}] \text{Int}[(e*\text{Sin}[a + b*x])^{m-2}*(f*\text{Cos}[a + b*x])^n*(g*\text{Sin}[c + d*x])^{p+2}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[m, 1] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[m+n+2*p+2, 0] \&\& \text{NeQ}[n+p+1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p] \&\& (\text{LtQ}[p, -2] || \text{EqQ}[m, 2] || \text{EqQ}[m, 3])$
4808. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^m*((f_.)*\sin[(a_.) + (b_.)(x_)])^n*((g_.)*\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[e*(e*\text{Cos}[a + b*x])^{m-1}*(f*\text{Sin}[a + b*x])^{n+1}*((g*\text{Sin}[c + d*x])^p/(b*f*(n+p+1))), x] + \text{Simp}[e^{2*((m+p-1)/(f^2*(n+p+1))}] \text{Int}[(e*\text{Cos}[a + b*x])^{m-2}*(f*\text{Sin}[a + b*x])^{n+2}*(g*\text{Sin}[c + d*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[m, 1] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[n+p+1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$
4809. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(f_.))^n*((e_.)*\sin[(a_.) + (b_.)(x_)])^m*((g_.)*\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[(-e)*(e*\text{Sin}[a + b*x])^{m-1}*(f*\text{Cos}[a + b*x])^{n+1}*((g*\text{Sin}[c + d*x])^p/(b*f*(n+p+1))), x] + \text{Simp}[e^{2*((m+p-1)/(f^2*(n+p+1))}] \text{Int}[(e*\text{Sin}[a + b*x])^{m-2}*(f*\text{Cos}[a + b*x])^{n+2}*(g*\text{Sin}[c + d*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{GtQ}[m, 1] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[n+p+1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$

4810. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^m*((f_.)\sin[(a_.) + (b_.)(x_)])^n*((g_.)\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[e*(e*\text{Cos}[a + b*x])^{m-1}*(f*\text{Sin}[a + b*x])^{n+1}*((g*\text{Sin}[c + d*x])^p/(b*f*(m+n+2*p))), x] + \text{Simp}[e^{2*((m+p-1)/(m+n+2*p))} \text{Int}[(e*\text{Cos}[a + b*x])^{m-2}*(f*\text{Sin}[a + b*x])^n*(g*\text{Sin}[c + d*x])^p, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g, n, p\}, x \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{GtQ}[m, 1] \ \&\& \ \text{NeQ}[m+n+2*p, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*n, 2*p]$
4811. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(f_.))^n*((e_.)\sin[(a_.) + (b_.)(x_)])^m*((g_.)\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[(-e)*(e*\text{Sin}[a + b*x])^{m-1}*(f*\text{Cos}[a + b*x])^{n+1}*((g*\text{Sin}[c + d*x])^p/(b*f*(m+n+2*p))), x] + \text{Simp}[e^{2*((m+p-1)/(m+n+2*p))} \text{Int}[(e*\text{Sin}[a + b*x])^{m-2}*(f*\text{Cos}[a + b*x])^n*(g*\text{Sin}[c + d*x])^p, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g, n, p\}, x \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{GtQ}[m, 1] \ \&\& \ \text{NeQ}[m+n+2*p, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*n, 2*p]$
4812. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^m*((f_.)\sin[(a_.) + (b_.)(x_)])^n*((g_.)\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[(-f)*(e*\text{Cos}[a + b*x])^{m+1}*(f*\text{Sin}[a + b*x])^{n-1}*((g*\text{Sin}[c + d*x])^p/(b*e*(m+n+2*p))), x] + \text{Simp}[2*f*g*((n+p-1)/(e*(m+n+2*p))) \text{Int}[(e*\text{Cos}[a + b*x])^{m+1}*(f*\text{Sin}[a + b*x])^{n-1}*(g*\text{Sin}[c + d*x])^{p-1}, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g\}, x \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{NeQ}[m+n+2*p, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*n, 2*p]$
4813. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(f_.))^n*((e_.)\sin[(a_.) + (b_.)(x_)])^m*((g_.)\sin[(c_.) + (d_.)(x_)])^p, x_Symbol] \rightarrow \text{Simp}[f*(e*\text{Sin}[a + b*x])^{m+1}*(f*\text{Cos}[a + b*x])^{n-1}*((g*\text{Sin}[c + d*x])^p/(b*e*(m+n+2*p))), x] + \text{Simp}[2*f*g*((n+p-1)/(e*(m+n+2*p))) \text{Int}[(e*\text{Sin}[a + b*x])^{m+1}*(f*\text{Cos}[a + b*x])^{n-1}*(g*\text{Sin}[c + d*x])^{p-1}, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, g\}, x \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{EqQ}[d/b, 2] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{NeQ}[m+n+2*p, 0] \ \&\& \ \text{IntegersQ}[2*m, 2*n, 2*p]$

4814. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^{\wedge}(m_)*((f_.)*\sin[(a_.) + (b_.)(x_)]^{\wedge}(n_))*((g_.)*\sin[(c_.) + (d_.)(x_)]^{\wedge}(p_))$, x_Symbol] \rightarrow $\text{Simp}[(-e*\text{Cos}[a + b*x])^{\wedge}(m + 1)*(f*\text{Sin}[a + b*x])^{\wedge}(n + 1)*((g*\text{Sin}[c + d*x])^{\wedge}p/(b*e*f*(m + p + 1)))$, x] + $\text{Simp}[f*((m + n + 2*p + 2)/(2*e*g*(m + p + 1)) \text{Int}[(e*\text{Cos}[a + b*x])^{\wedge}(m + 1)*(f*\text{Sin}[a + b*x])^{\wedge}(n - 1)*(g*\text{Sin}[c + d*x])^{\wedge}(p + 1)$, x], x] /; $\text{FreeQ}\{a, b, c, d, e, f, g\}, x\} \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[m + n + 2*p + 2, 0] \&\& \text{NeQ}[m + p + 1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$
4815. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(f_.))^{\wedge}(n_)*((e_.)*\sin[(a_.) + (b_.)(x_)]^{\wedge}(m_))*((g_.)*\sin[(c_.) + (d_.)(x_)]^{\wedge}(p_))$, x_Symbol] \rightarrow $\text{Simp}[(e*\text{Sin}[a + b*x])^{\wedge}(m + 1)*(f*\text{Cos}[a + b*x])^{\wedge}(n + 1)*((g*\text{Sin}[c + d*x])^{\wedge}p/(b*e*f*(m + p + 1)))$, x] + $\text{Simp}[f*((m + n + 2*p + 2)/(2*e*g*(m + p + 1)) \text{Int}[(e*\text{Sin}[a + b*x])^{\wedge}(m + 1)*(f*\text{Cos}[a + b*x])^{\wedge}(n - 1)*(g*\text{Sin}[c + d*x])^{\wedge}(p + 1)$, x], x] /; $\text{FreeQ}\{a, b, c, d, e, f, g\}, x\} \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[m + n + 2*p + 2, 0] \&\& \text{NeQ}[m + p + 1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$
4816. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^{\wedge}(m_)*((f_.)*\sin[(a_.) + (b_.)(x_)]^{\wedge}(n_))*((g_.)*\sin[(c_.) + (d_.)(x_)]^{\wedge}(p_))$, x_Symbol] \rightarrow $\text{Simp}[(-e*\text{Cos}[a + b*x])^{\wedge}(m + 1)*(f*\text{Sin}[a + b*x])^{\wedge}(n + 1)*((g*\text{Sin}[c + d*x])^{\wedge}p/(b*e*f*(m + p + 1)))$, x] + $\text{Simp}[(m + n + 2*p + 2)/(e^{\wedge}2*(m + p + 1)) \text{Int}[(e*\text{Cos}[a + b*x])^{\wedge}(m + 2)*(f*\text{Sin}[a + b*x])^{\wedge}n*(g*\text{Sin}[c + d*x])^{\wedge}p$, x], x] /; $\text{FreeQ}\{a, b, c, d, e, f, g, n, p\}, x\} \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[m + n + 2*p + 2, 0] \&\& \text{NeQ}[m + p + 1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$
4817. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(f_.))^{\wedge}(n_)*((e_.)*\sin[(a_.) + (b_.)(x_)]^{\wedge}(m_))*((g_.)*\sin[(c_.) + (d_.)(x_)]^{\wedge}(p_))$, x_Symbol] \rightarrow $\text{Simp}[(e*\text{Sin}[a + b*x])^{\wedge}(m + 1)*(f*\text{Cos}[a + b*x])^{\wedge}(n + 1)*((g*\text{Sin}[c + d*x])^{\wedge}p/(b*e*f*(m + p + 1)))$, x] + $\text{Simp}[(m + n + 2*p + 2)/(e^{\wedge}2*(m + p + 1)) \text{Int}[(e*\text{Sin}[a + b*x])^{\wedge}(m + 2)*(f*\text{Cos}[a + b*x])^{\wedge}n*(g*\text{Sin}[c + d*x])^{\wedge}p$, x], x] /; $\text{FreeQ}\{a, b, c, d, e, f, g, n, p\}, x\} \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[m + n + 2*p + 2, 0] \&\& \text{NeQ}[m + p + 1, 0] \&\& \text{IntegersQ}[2*m, 2*n, 2*p]$

4818. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^{\wedge}(m_.)*((f_.)*\sin[(a_.) + (b_.)(x_)])^{\wedge}(n_.)*((g_.)*\sin[(c_.) + (d_.)(x_)])^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[(g*\sin[c + d*x])^{\wedge}p/((e*\cos[a + b*x])^{\wedge}m*(f*\sin[a + b*x])^{\wedge}n), x, x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n, p\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, 2] \&\& !\text{IntegerQ}[p]$
4819. $\text{Int}[(\cos[(a_.) + (b_.)(x_)]*(e_.))^{\wedge}(m_.)*\sin[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(-m + 2)*(e*\cos[a + b*x])^{\wedge}(m + 1)*(\cos[(m + 1)*(a + b*x)]/(d*e*(m + 1))), x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{EqQ}[d/b, \text{Abs}[m + 2]]$
4820. $\text{Int}[((a_.)*\sin[(m_.)*((c_.) + (d_.)(x_))] + (b_.)*\sin[(n_.)*((c_.) + (d_.)(x_))])^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a*\sin[m*\text{ArcTan}[x]] + b*\sin[n*\text{ArcTan}[x]]]]^{\wedge}p/(1 + x^2), x], x, \text{Tan}[c + d*x]], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[n/2]$
4821. $\text{Int}[(\cos[(m_.)*((c_.) + (d_.)(x_))]*(a_.) + \cos[(n_.)*((c_.) + (d_.)(x_))]*(b_.))^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[-d^{\wedge}(-1) \text{ Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a*\cos[m*\text{ArcCot}[x]] + b*\cos[n*\text{ArcCot}[x]]]]^{\wedge}p/(1 + x^2), x], x, \text{Cot}[c + d*x]], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[n/2]$
4822. $\text{Int}[((a_.)*\sin[(m_.)*((c_.) + (d_.)(x_))] + (b_.)*\sin[(n_.)*((c_.) + (d_.)(x_))])^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a*\sin[m*\text{ArcTan}[x]] + b*\sin[n*\text{ArcTan}[x]]]]^{\wedge}p/(1 + x^2), x], x, \text{Tan}[c + d*x]], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{ILtQ}[p/2, 0] \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{IntegerQ}[(n - 1)/2]$
4823. $\text{Int}[(\cos[(m_.)*((c_.) + (d_.)(x_))]*(a_.) + \cos[(n_.)*((c_.) + (d_.)(x_))]*(b_.))^{\wedge}(p_), x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a*\cos[m*\text{ArcTan}[x]] + b*\cos[n*\text{ArcTan}[x]]]]^{\wedge}p/(1 + x^2), x], x, \text{Tan}[c + d*x]], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{ILtQ}[p/2, 0] \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{IntegerQ}[(n - 1)/2]$

4824. $\text{Int}[(a_.)\sin[(m_.)((c_.) + (d_.)x)] + (b_.)\sin[(n_.)((c_.) + (d_.)x))]^p, x_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a\sin[m\text{ArcCos}[x]] + b\sin[n\text{ArcCos}[x]]]]^p/\text{Sqrt}[1 - x^2], x], x, \text{Cos}[c + d*x]], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{ILtQ}[(p - 1)/2, 0] \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{IntegerQ}[(n - 1)/2]$
4825. $\text{Int}[(\cos[(m_.)((c_.) + (d_.)x)](a_.) + \cos[(n_.)((c_.) + (d_.)x)](b_.)]^p, x_Symbol] \rightarrow \text{Simp}[1/d \text{Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a\cos[m\text{ArcSin}[x]] + b\cos[n\text{ArcSin}[x]]]]^p/\text{Sqrt}[1 - x^2], x], x, \text{Sin}[c + d*x]], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{ILtQ}[(p - 1)/2, 0] \&\& \text{IntegerQ}[(m - 1)/2] \&\& \text{IntegerQ}[(n - 1)/2]$
4826. $\text{Int}[(a_.)\sin[(m_.)((c_.) + (d_.)x)] + (b_.)\sin[(n_.)((c_.) + (d_.)x))]^p, x_Symbol] \rightarrow \text{Simp}[2/d \text{Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a\sin[2m\text{ArcTan}[x]] + b\sin[2n\text{ArcTan}[x]]]]^p/(1 + x^2), x], x, \text{Tan}[(1/2)(c + d*x)], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[(n - 1)/2]$
4827. $\text{Int}[(\cos[(m_.)((c_.) + (d_.)x)](a_.) + \cos[(n_.)((c_.) + (d_.)x)](b_.)]^p, x_Symbol] \rightarrow \text{Simp}[-2/d \text{Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a\cos[2m\text{ArcCot}[x]] + b\cos[2n\text{ArcCot}[x]]]]^p/(1 + x^2), x], x, \text{Cot}[(1/2)(c + d*x)], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[(n - 1)/2]$
4828. $\text{Int}[(\cos[(n_.)((c_.) + (d_.)x)](b_.) + (a_.)\sin[(m_.)((c_.) + (d_.)x))]^p, x_Symbol] \rightarrow \text{Simp}[1/d \text{Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a\sin[m\text{ArcTan}[x]] + b\cos[n\text{ArcTan}[x]]]]^p/(1 + x^2), x], x, \text{Tan}[c + d*x]], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[n/2]$
4829. $\text{Int}[(\cos[(n_.)((c_.) + (d_.)x)](b_.) + (a_.)\sin[(m_.)((c_.) + (d_.)x))]^p, x_Symbol] \rightarrow \text{Simp}[1/d \text{Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a\sin[m\text{ArcSin}[x]] + b\cos[n\text{ArcSin}[x]]]]^p/\text{Sqrt}[1 - x^2], x], x, \text{Sin}[c + d*x]], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{ILtQ}[(p - 1)/2, 0] \&\& \text{IntegerQ}[m/2] \&\& \text{IntegerQ}[(n - 1)/2]$

4830. $\text{Int}[(\cos[(n_.) * ((c_.) + (d_.) * (x_))] * (b_.) + (a_.) * \sin[(m_.) * ((c_.) + (d_.) * (x_))])^p, x_Symbol] \rightarrow \text{Simp}[2/d \text{ Subst}[\text{Int}[\text{Simplify}[\text{TrigExpand}[a * \sin[2 * m * \text{ArcTan}[x]] + b * \cos[2 * n * \text{ArcTan}[x]]]]^p / (1 + x^2), x], x, \text{Tan}[(1/2) * (c + d * x)], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{ILtQ}[p, 0] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[n]$
4831. $\text{Int}[(a_.) * \sin[u_] + (b_.) * \sin[v_])^p, x_Symbol] \rightarrow \text{With}\{m = \text{Denominator}[f/d]\}, \text{Int}[(a * \sin[m * (c/m + d * (x/m))] + b * \sin[m * (f/d) * (c/m + d * (x/m))])^p, x] /; \text{FreeQ}\{a, b\}, x\} \&\& \text{LinearQ}\{u, v\}, x\} \&\& \text{ILtQ}[p, 0] \&\& \text{EqQ}[d * e - c * f, 0] \&\& \text{RationalQ}[f/d]$
4832. $\text{Int}[(a_.) * (F_)[(c_.) + (d_.) * (x_)]^p)^n, x_Symbol] \rightarrow \text{With}\{v = \text{ActivateTrig}[F[c + d * x]]\}, \text{Simp}[a^{\text{IntPart}[n]} * (v / \text{NonfreeFactors}[v, x])^{\text{p} * \text{IntPart}[n]} * ((a * v^p)^{\text{FracPart}[n]} / \text{NonfreeFactors}[v, x]^{\text{p} * \text{FracPart}[n]}) \text{Int}[\text{NonfreeFactors}[v, x]^{\text{n} * p}, x], x] /; \text{FreeQ}\{a, c, d, n, p\}, x\} \&\& \text{InertTrigQ}[F] \&\& !\text{IntegerQ}[n] \&\& \text{IntegerQ}[p]$
4833. $\text{Int}[(a_.) * ((b_.) * (F_)[(c_.) + (d_.) * (x_)]^p)^n, x_Symbol] \rightarrow \text{With}\{v = \text{ActivateTrig}[F[c + d * x]]\}, \text{Simp}[a^{\text{IntPart}[n]} * ((a * (b * v)^p)^{\text{FracPart}[n]} / (b * v)^{\text{p} * \text{FracPart}[n]}) \text{Int}[(b * v)^{\text{n} * p}, x], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x\} \&\& \text{InertTrigQ}[F] \&\& !\text{IntegerQ}[n] \&\& !\text{IntegerQ}[p]$
4834. $\text{Int}[u_ * (F_)[(c_.) * ((a_.) + (b_.) * (x_))], x_Symbol] \rightarrow \text{With}\{d = \text{FreeFactors}[\sin[c * (a + b * x)], x]\}, \text{Simp}[d / (b * c) \text{ Subst}[\text{Int}[\text{SubstFor}[1, \sin[c * (a + b * x)] / d, u, x], x], x, \sin[c * (a + b * x)] / d, x] /; \text{FunctionOfQ}[\sin[c * (a + b * x)] / d, u, x, \text{True}] /; \text{FreeQ}\{a, b, c\}, x\} \&\& (\text{EqQ}[F, \text{Cos}] \parallel \text{EqQ}[F, \text{cos}])$
4835. $\text{Int}[u_ * (F_)[(c_.) * ((a_.) + (b_.) * (x_))], x_Symbol] \rightarrow \text{With}\{d = \text{FreeFactors}[\cos[c * (a + b * x)], x]\}, \text{Simp}[-d / (b * c) \text{ Subst}[\text{Int}[\text{SubstFor}[1, \cos[c * (a + b * x)] / d, u, x], x], x, \cos[c * (a + b * x)] / d, x] /; \text{FunctionOfQ}[\cos[c * (a + b * x)] / d, u, x, \text{True}] /; \text{FreeQ}\{a, b, c\}, x\} \&\& (\text{EqQ}[F, \text{Sin}] \parallel \text{EqQ}[F, \text{sin}])$
4836. $\text{Int}[\text{Cosh}[(c_.) * ((a_.) + (b_.) * (x_))] * u_], x_Symbol] \rightarrow \text{With}\{d = \text{FreeFactors}[\sinh[c * (a + b * x)], x]\}, \text{Simp}[d / (b * c) \text{ Subst}[\text{Int}[\text{SubstFor}[1, S$

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inh[c*(a + b*x)]/d, u, x], x], x, Sinh[c*(a + b*x)]/d], x] /; Function
OfQ[Sinh[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x]

4837. Int[(u_)*Sinh[(c_)*((a_) + (b_)*(x_))], x_Symbol] := With[{d = Free
Factors[Cosh[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[1, C
osh[c*(a + b*x)]/d, u, x], x], x, Cosh[c*(a + b*x)]/d], x] /; Function
OfQ[Cosh[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x]

4838. Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))], x_Symbol] := With[{d = Free
Factors[Sin[c*(a + b*x)], x]}, Simp[1/(b*c) Subst[Int[SubstFor[1/x,
Sin[c*(a + b*x)]/d, u, x], x], x, Sin[c*(a + b*x)]/d], x] /; FunctionO
fQ[Sin[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x] && (EqQ[F,
Cot] || EqQ[F, cot])

4839. Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))], x_Symbol] := With[{d = Free
Factors[Cos[c*(a + b*x)], x]}, Simp[-(b*c)^(-1) Subst[Int[SubstFor[1
/x, Cos[c*(a + b*x)]/d, u, x], x], x, Cos[c*(a + b*x)]/d], x] /; Funct
ionOfQ[Cos[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x] && (EqQ
[F, Tan] || EqQ[F, tan])

4840. Int[Coth[(c_)*((a_) + (b_)*(x_))]*(u_), x_Symbol] := With[{d = Free
Factors[Sinh[c*(a + b*x)], x]}, Simp[1/(b*c) Subst[Int[SubstFor[1/x,
Sinh[c*(a + b*x)]/d, u, x], x], x, Sinh[c*(a + b*x)]/d], x] /; Functi
onOfQ[Sinh[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x]

4841. Int[(u_)*Tanh[(c_)*((a_) + (b_)*(x_))], x_Symbol] := With[{d = Free
Factors[Cosh[c*(a + b*x)], x]}, Simp[1/(b*c) Subst[Int[SubstFor[1/x,
Cosh[c*(a + b*x)]/d, u, x], x], x, Cosh[c*(a + b*x)]/d], x] /; Functi
onOfQ[Cosh[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x]

4842. Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))]^2, x_Symbol] := With[{d = Fr
eeFactors[Tan[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[1,
Tan[c*(a + b*x)]/d, u, x], x], x, Tan[c*(a + b*x)]/d], x] /; FunctionO
fQ[Tan[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x] && NonsumQ[
u] && (EqQ[F, Sec] || EqQ[F, sec])

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4843. `Int[(u_)/cos[(c_.)*((a_.) + (b_.)*(x_))]^2, x_Symbol] := With[{d = FreeFactors[Tan[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[1, Tan[c*(a + b*x)]/d, u, x], x], x, Tan[c*(a + b*x)]/d, x] /; FunctionOfQ[Tan[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x] && NonsumQ[u]`
4844. `Int[(u_)*(F_)[(c_.)*((a_.) + (b_.)*(x_))]^2, x_Symbol] := With[{d = FreeFactors[Cot[c*(a + b*x)], x]}, Simp[-d/(b*c) Subst[Int[SubstFor[1, Cot[c*(a + b*x)]/d, u, x], x], x, Cot[c*(a + b*x)]/d, x] /; FunctionOfQ[Cot[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x] && NonsumQ[u] && (EqQ[F, Csc] || EqQ[F, csc])`
4845. `Int[(u_)/sin[(c_.)*((a_.) + (b_.)*(x_))]^2, x_Symbol] := With[{d = FreeFactors[Cot[c*(a + b*x)], x]}, Simp[-d/(b*c) Subst[Int[SubstFor[1, Cot[c*(a + b*x)]/d, u, x], x], x, Cot[c*(a + b*x)]/d, x] /; FunctionOfQ[Cot[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x] && NonsumQ[u]`
4846. `Int[(u_)*Sech[(c_.)*((a_.) + (b_.)*(x_))]^2, x_Symbol] := With[{d = FreeFactors[Tanh[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[1, Tanh[c*(a + b*x)]/d, u, x], x], x, Tanh[c*(a + b*x)]/d, x] /; FunctionOfQ[Tanh[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x] && NonsumQ[u]`
4847. `Int[Csch[(c_.)*((a_.) + (b_.)*(x_))]^2*(u_), x_Symbol] := With[{d = FreeFactors[Coth[c*(a + b*x)], x]}, Simp[-d/(b*c) Subst[Int[SubstFor[1, Coth[c*(a + b*x)]/d, u, x], x], x, Coth[c*(a + b*x)]/d, x] /; FunctionOfQ[Coth[c*(a + b*x)]/d, u, x, True]] /; FreeQ[{a, b, c}, x] && NonsumQ[u]`
4848. `Int[(u_)*(F_)[(c_.)*((a_.) + (b_.)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Tan[c*(a + b*x)], x]}, Simp[1/(b*c*d^(n - 1)) Subst[Int[SubstFor[1/(x^n*(1 + d^2*x^2)), Tan[c*(a + b*x)]/d, u, x], x], x, Tan[c*(a + b*x)]/d, x] /; FunctionOfQ[Tan[c*(a + b*x)]/d, u, x, True] && TryPureTanSubst[ActivateTrig[u]*Cot[c*(a + b*x)]^n, x]] /; FreeQ[{a, b, c}, x] && IntegerQ[n] && (EqQ[F, Cot] || EqQ[F, cot])`

4849. `Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Cot[c*(a + b*x)], x]}, Simp[-(b*c*d^(n - 1))^( -1) Subst[Int[SubstFor[1/(x^n*(1 + d^2*x^2)), Cot[c*(a + b*x)]/d, u, x], x], x, Cot[c*(a + b*x)]/d, x] /; FunctionOfQ[Cot[c*(a + b*x)]/d, u, x, True] && TryPureTanSubst[ActivateTrig[u]*Tan[c*(a + b*x)]^n, x] /; FreeQ[{a, b, c}, x] && IntegerQ[n] && (EqQ[F, Tan] || EqQ[F, tan])`
4850. `Int[Coth[(c_)*((a_) + (b_)*(x_))]^(n_)*(u_), x_Symbol] := With[{d = FreeFactors[Tanh[c*(a + b*x)], x]}, Simp[1/(b*c*d^(n - 1)) Subst[Int[SubstFor[1/(x^n*(1 - d^2*x^2)), Tanh[c*(a + b*x)]/d, u, x], x], x, Tanh[c*(a + b*x)]/d, x] /; FunctionOfQ[Tanh[c*(a + b*x)]/d, u, x, True] && TryPureTanSubst[ActivateTrig[u]*Coth[c*(a + b*x)]^n, x] /; FreeQ[{a, b, c}, x] && IntegerQ[n]`
4851. `Int[(u_)*Tanh[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Coth[c*(a + b*x)], x]}, Simp[1/(b*c*d^(n - 1)) Subst[Int[SubstFor[1/(x^n*(1 - d^2*x^2)), Coth[c*(a + b*x)]/d, u, x], x], x, Coth[c*(a + b*x)]/d, x] /; FunctionOfQ[Coth[c*(a + b*x)]/d, u, x, True] && TryPureTanSubst[ActivateTrig[u]*Tanh[c*(a + b*x)]^n, x] /; FreeQ[{a, b, c}, x] && IntegerQ[n]`
4852. `Int[u_, x_Symbol] := With[{v = FunctionOfTrig[u, x]}, Simp[With[{d = FreeFactors[Cot[v], x]}, -d/Coefficient[v, x, 1] Subst[Int[SubstFor[1/(1 + d^2*x^2), Cot[v]/d, u, x], x], x, Cot[v]/d]], x] /; !FalseQ[v] && FunctionOfQ[NonfreeFactors[Cot[v], x], u, x, True] && TryPureTanSubst[ActivateTrig[u], x]`
4853. `Int[u_, x_Symbol] := With[{v = FunctionOfTrig[u, x]}, Simp[With[{d = FreeFactors[Tan[v], x]}, d/Coefficient[v, x, 1] Subst[Int[SubstFor[1/(1 + d^2*x^2), Tan[v]/d, u, x], x], x, Tan[v]/d]], x] /; !FalseQ[v] && FunctionOfQ[NonfreeFactors[Tan[v], x], u, x, True] && TryPureTanSubst[ActivateTrig[u], x]`
4854. `Int[(F_)[(a_) + (b_)*(x_)]^(p_)*(G_)[(c_) + (d_)*(x_)]^(q_), x_Symbol] := Int[ExpandTrigReduce[ActivateTrig[F[a + b*x]^p*G[c + d*x]^q], x], x] /; FreeQ[{a, b, c, d}, x] && (EqQ[F, sin] || EqQ[F, cos]) && (EqQ[G, sin] || EqQ[G, cos]) && IGtQ[p, 0] && IGtQ[q, 0]`

4855.  $\text{Int}[(F_*)(a_*) + (b_*)(x_*)]^{(p_*)} (G_*)(c_*) + (d_*)(x_*)]^{(q_*)} (H_*) [(e_*) + (f_*)(x_*)]^{(r_*)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{ActivateTrig}[F[a + b*x]^p G[c + d*x]^q H[e + f*x]^r], x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, f, x\} \ \&\& \ (\text{EqQ}[F, \sin] \ || \ \text{EqQ}[F, \cos]) \ \&\& \ (\text{EqQ}[G, \sin] \ || \ \text{EqQ}[G, \cos]) \ \&\& \ (\text{EqQ}[H, \sin] \ || \ \text{EqQ}[H, \cos]) \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IGtQ}[q, 0] \ \&\& \ \text{IGtQ}[r, 0]$
4856.  $\text{Int}[(u_*)(F_*)(c_*)((a_*) + (b_*)(x_*))], x\_Symbol] \rightarrow \text{With}\{d = \text{FreeFactors}[\text{Sin}[c*(a + b*x)], x]\}, \text{Simp}[d/(b*c) \ \text{Subst}[\text{Int}[\text{SubstFor}[1, \text{Sin}[c*(a + b*x)]/d, u, x], x], x, \text{Sin}[c*(a + b*x)]/d], x] /;$   $\text{FunctionOfQ}[\text{Sin}[c*(a + b*x)]/d, u, x] /;$   $\text{FreeQ}\{a, b, c, x\} \ \&\& \ (\text{EqQ}[F, \text{Cos}] \ || \ \text{EqQ}[F, \cos])$
4857.  $\text{Int}[(u_*)(F_*)(c_*)((a_*) + (b_*)(x_*))], x\_Symbol] \rightarrow \text{With}\{d = \text{FreeFactors}[\text{Cos}[c*(a + b*x)], x]\}, \text{Simp}[-d/(b*c) \ \text{Subst}[\text{Int}[\text{SubstFor}[1, \text{Cos}[c*(a + b*x)]/d, u, x], x], x, \text{Cos}[c*(a + b*x)]/d], x] /;$   $\text{FunctionOfQ}[\text{Cos}[c*(a + b*x)]/d, u, x] /;$   $\text{FreeQ}\{a, b, c, x\} \ \&\& \ (\text{EqQ}[F, \text{Sin}] \ || \ \text{EqQ}[F, \sin])$
4858.  $\text{Int}[\text{Cosh}[c_*)((a_*) + (b_*)(x_*))]*(u_*), x\_Symbol] \rightarrow \text{With}\{d = \text{FreeFactors}[\text{Sinh}[c*(a + b*x)], x]\}, \text{Simp}[d/(b*c) \ \text{Subst}[\text{Int}[\text{SubstFor}[1, \text{Sinh}[c*(a + b*x)]/d, u, x], x], x, \text{Sinh}[c*(a + b*x)]/d], x] /;$   $\text{FunctionOfQ}[\text{Sinh}[c*(a + b*x)]/d, u, x] /;$   $\text{FreeQ}\{a, b, c, x\}$
4859.  $\text{Int}[(u_*)\text{Sinh}[c_*)((a_*) + (b_*)(x_*))], x\_Symbol] \rightarrow \text{With}\{d = \text{FreeFactors}[\text{Cosh}[c*(a + b*x)], x]\}, \text{Simp}[d/(b*c) \ \text{Subst}[\text{Int}[\text{SubstFor}[1, \text{Cosh}[c*(a + b*x)]/d, u, x], x], x, \text{Cosh}[c*(a + b*x)]/d], x] /;$   $\text{FunctionOfQ}[\text{Cosh}[c*(a + b*x)]/d, u, x] /;$   $\text{FreeQ}\{a, b, c, x\}$
4860.  $\text{Int}[(u_*)(F_*)(c_*)((a_*) + (b_*)(x_*))], x\_Symbol] \rightarrow \text{With}\{d = \text{FreeFactors}[\text{Sin}[c*(a + b*x)], x]\}, \text{Simp}[1/(b*c) \ \text{Subst}[\text{Int}[\text{SubstFor}[1/x, \text{Sin}[c*(a + b*x)]/d, u, x], x], x, \text{Sin}[c*(a + b*x)]/d], x] /;$   $\text{FunctionOfQ}[\text{Sin}[c*(a + b*x)]/d, u, x] /;$   $\text{FreeQ}\{a, b, c, x\} \ \&\& \ (\text{EqQ}[F, \text{Cot}] \ || \ \text{EqQ}[F, \cot])$

4861. `Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))], x_Symbol] := With[{d = FreeFactors[Cos[c*(a + b*x)], x]}, Simp[-(b*c)^(-1) Subst[Int[SubstFor[1/x, Cos[c*(a + b*x)]/d, u, x], x], x, Cos[c*(a + b*x)]/d, x] /; FunctionOfQ[Cos[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && (EqQ[F, Tan] || EqQ[F, tan])`
4862. `Int[Coth[(c_)*((a_) + (b_)*(x_))]*(u_), x_Symbol] := With[{d = FreeFactors[Sinh[c*(a + b*x)], x]}, Simp[1/(b*c) Subst[Int[SubstFor[1/x, Sinh[c*(a + b*x)]/d, u, x], x], x, Sinh[c*(a + b*x)]/d, x] /; FunctionOfQ[Sinh[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x]`
4863. `Int[(u_)*Tanh[(c_)*((a_) + (b_)*(x_))], x_Symbol] := With[{d = FreeFactors[Cosh[c*(a + b*x)], x]}, Simp[1/(b*c) Subst[Int[SubstFor[1/x, Cosh[c*(a + b*x)]/d, u, x], x], x, Cosh[c*(a + b*x)]/d, x] /; FunctionOfQ[Cosh[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x]`
4864. `Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Sin[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[(1 - d^2*x^2)^((n - 1)/2), Sin[c*(a + b*x)]/d, u, x], x], x, Sin[c*(a + b*x)]/d, x] /; FunctionOfQ[Sin[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u] && (EqQ[F, Cos] || EqQ[F, cos])`
4865. `Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Sin[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[(1 - d^2*x^2)^((-n - 1)/2), Sin[c*(a + b*x)]/d, u, x], x], x, Sin[c*(a + b*x)]/d, x] /; FunctionOfQ[Sin[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u] && (EqQ[F, Sec] || EqQ[F, sec])`
4866. `Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Cos[c*(a + b*x)], x]}, Simp[-d/(b*c) Subst[Int[SubstFor[(1 - d^2*x^2)^((n - 1)/2), Cos[c*(a + b*x)]/d, u, x], x], x, Cos[c*(a + b*x)]/d, x] /; FunctionOfQ[Cos[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u] && (EqQ[F, Sin] || EqQ[F, sin])`

4867. `Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Cos[c*(a + b*x)], x]}, Simp[-d/(b*c) Subst[Int[SubstFor[(1 - d^2*x^2)^((-n - 1)/2), Cos[c*(a + b*x)]/d, u, x], x], x, Cos[c*(a + b*x)]/d, x] /; FunctionOfQ[Cos[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u] && (EqQ[F, Csc] || EqQ[F, csc])`
4868. `Int[Cosh[(c_)*((a_) + (b_)*(x_))]^(n_)*(u_), x_Symbol] := With[{d = FreeFactors[Sinh[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[(1 + d^2*x^2)^((n - 1)/2), Sinh[c*(a + b*x)]/d, u, x], x], x, Sinh[c*(a + b*x)]/d, x] /; FunctionOfQ[Sinh[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u]`
4869. `Int[(u_)*Sech[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Sinh[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[(1 + d^2*x^2)^((-n - 1)/2), Sinh[c*(a + b*x)]/d, u, x], x], x, Sinh[c*(a + b*x)]/d, x] /; FunctionOfQ[Sinh[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u]`
4870. `Int[(u_)*Sinh[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Cosh[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[(-1 + d^2*x^2)^((n - 1)/2), Cosh[c*(a + b*x)]/d, u, x], x], x, Cosh[c*(a + b*x)]/d, x] /; FunctionOfQ[Cosh[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u]`
4871. `Int[Csch[(c_)*((a_) + (b_)*(x_))]^(n_)*(u_), x_Symbol] := With[{d = FreeFactors[Cosh[c*(a + b*x)], x]}, Simp[d/(b*c) Subst[Int[SubstFor[(-1 + d^2*x^2)^((-n - 1)/2), Cosh[c*(a + b*x)]/d, u, x], x], x, Cosh[c*(a + b*x)]/d, x] /; FunctionOfQ[Cosh[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u]`
4872. `Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Sin[c*(a + b*x)], x]}, Simp[1/(b*c*d^(n - 1)) Subst[Int[SubstFor[(1 - d^2*x^2)^((n - 1)/2)/x^n, Sin[c*(a + b*x)]/d, u, x], x], x, Sin[c*(a + b*x)]/d, x] /; FunctionOfQ[Sin[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u] && (EqQ[F, Cot] || EqQ[F, cot])`

4873. `Int[(u_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Cos[c*(a + b*x)], x]}, Simp[-(b*c*d^(n - 1))^( -1) Subst[Int[SubstFor[(1 - d^2*x^2)^(n - 1)/2]/x^n, Cos[c*(a + b*x)]/d, u, x], x], x, Cos[c*(a + b*x)]/d, x] /; FunctionOfQ[Cos[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u] && (EqQ[F, Tan] || EqQ[F, tan])`
4874. `Int[Coth[(c_)*((a_) + (b_)*(x_))]^(n_)*(u_), x_Symbol] := With[{d = FreeFactors[Sinh[c*(a + b*x)], x]}, Simp[1/(b*c*d^(n - 1)) Subst[Int[SubstFor[(1 + d^2*x^2)^(n - 1)/2]/x^n, Sinh[c*(a + b*x)]/d, u, x], x], x, Sinh[c*(a + b*x)]/d, x] /; FunctionOfQ[Sinh[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u]`
4875. `Int[(u_)*Tanh[(c_)*((a_) + (b_)*(x_))]^(n_), x_Symbol] := With[{d = FreeFactors[Cosh[c*(a + b*x)], x]}, Simp[1/(b*c*d^(n - 1)) Subst[Int[SubstFor[(-1 + d^2*x^2)^(n - 1)/2]/x^n, Cosh[c*(a + b*x)]/d, u, x], x], x, Cosh[c*(a + b*x)]/d, x] /; FunctionOfQ[Cosh[c*(a + b*x)]/d, u, x] /; FreeQ[{a, b, c}, x] && IntegerQ[(n - 1)/2] && NonsumQ[u]`
4876. `Int[(u_)*((v_) + (d_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_.)), x_Symbol] := With[{e = FreeFactors[Sin[c*(a + b*x)], x]}, Int[ActivateTrig[u*v], x] + Simp[d Int[ActivateTrig[u]*Cos[c*(a + b*x)]^n, x], x] /; FunctionOfQ[Sin[c*(a + b*x)]/e, u, x] /; FreeQ[{a, b, c, d}, x] && !FreeQ[v, x] && IntegerQ[(n - 1)/2] && NonsumQ[u] && (EqQ[F, Cos] || EqQ[F, cos])`
4877. `Int[(u_)*((v_) + (d_)*(F_)[(c_)*((a_) + (b_)*(x_))]^(n_.)), x_Symbol] := With[{e = FreeFactors[Cos[c*(a + b*x)], x]}, Int[ActivateTrig[u*v], x] + Simp[d Int[ActivateTrig[u]*Sin[c*(a + b*x)]^n, x], x] /; FunctionOfQ[Cos[c*(a + b*x)]/e, u, x] /; FreeQ[{a, b, c, d}, x] && !FreeQ[v, x] && IntegerQ[(n - 1)/2] && NonsumQ[u] && (EqQ[F, Sin] || EqQ[F, sin])`
4878. `Int[u_, x_Symbol] := With[{v = FunctionOfTrig[u, x]}, Simp[With[{d = FreeFactors[Sin[v], x]}, d/Coefficient[v, x, 1] Subst[Int[SubstFor[1, Sin[v]/d, u/Cos[v], x], x], x, Sin[v]/d]], x] /; !FalseQ[v] && Funct`



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ionOfQ[NonfreeFactors[Sin[v], x], u/Cos[v], x]]

4879. Int[u_, x_Symbol] := With[{v = FunctionOfTrig[u, x]}, Simp[With[{d = F
reeFactors[Cos[v], x]}, -d/Coefficient[v, x, 1] Subst[Int[SubstFor[1
, Cos[v]/d, u/Sin[v], x], x], x, Cos[v]/d]], x] /; !FalseQ[v] && Func
tionOfQ[NonfreeFactors[Cos[v], x], u/Sin[v], x]]

4880. Int[(u_.)*((a_.) + cos[(d_.) + (e_.)*(x_)]^2*(b_.) + (c_.)*sin[(d_.) +
(e_.)*(x_)]^2)^(p_.), x_Symbol] := Simp[(a + c)^p Int[ActivateTrig[
u], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[b - c, 0]

4881. Int[(u_.)*((a_.) + (c_.)*sec[(d_.) + (e_.)*(x_)]^2 + (b_.)*tan[(d_.) +
(e_.)*(x_)]^2)^(p_.), x_Symbol] := Simp[(a + c)^p Int[ActivateTrig[
u], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[b + c, 0]

4882. Int[((a_.) + cot[(d_.) + (e_.)*(x_)]^2*(b_.) + csc[(d_.) + (e_.)*(x_)]
^2*(c_.))^(p_.)*(u_.), x_Symbol] := Simp[(a + c)^p Int[ActivateTrig[
u], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[b + c, 0]

4883. Int[(u_)/(y_), x_Symbol] := With[{q = DerivativeDivides[ActivateTrig[y
], ActivateTrig[u], x]}, Simp[q*Log[RemoveContent[ActivateTrig[y], x]]
, x] /; !FalseQ[q]] /; !InertTrigFreeQ[u]

4884. Int[(u_)/((w_)*(y_)), x_Symbol] := With[{q = DerivativeDivides[Activat
eTrig[y*w], ActivateTrig[u], x]}, Simp[q*Log[RemoveContent[ActivateTri
g[y*w], x]], x] /; !FalseQ[q]] /; !InertTrigFreeQ[u]

4885. Int[(u_)*(y_)^(m_.), x_Symbol] := With[{q = DerivativeDivides[Activate
Trig[y], ActivateTrig[u], x]}, Simp[q*(ActivateTrig[y^(m + 1)]/(m + 1)
), x] /; !FalseQ[q]] /; FreeQ[m, x] && NeQ[m, -1] && !InertTrigFreeQ
[u]

4886. Int[(u_)*(y_)^(m_.)*(z_)^(n_.), x_Symbol] := With[{q = DerivativeDivid
es[ActivateTrig[y*z], ActivateTrig[u*z^(n - m)], x]}, Simp[q*(Activate
Trig[y^(m + 1)*z^(m + 1)]/(m + 1)), x] /; !FalseQ[q]] /; FreeQ[{m, n}

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- , x] && NeQ[m, -1] && !InertTrigFreeQ[u]
4887. $\text{Int}[(u_.) * ((a_.) * (F_)[(c_.) + (d_.) * (x_)]^{(p_)})^{(n_.)}, x_Symbol] \rightarrow$ With[{v = ActivateTrig[F[c + d*x]]}, Simp[a^IntPart[n]*(v/NonfreeFactors[v, x])^(p*IntPart[n])*((a*v^p)^FracPart[n]/NonfreeFactors[v, x]^(p*FracPart[n])) Int[ActivateTrig[u]*NonfreeFactors[v, x]^(n*p), x], x]] /; FreeQ[{a, c, d, n, p}, x] && InertTrigQ[F] && !IntegerQ[n] && IntegerQ[p]
4888. $\text{Int}[(u_.) * ((a_.) * ((b_.) * (F_)[(c_.) + (d_.) * (x_)]^{(p_)})^{(n_.)}), x_Symbol] \rightarrow$ With[{v = ActivateTrig[F[c + d*x]]}, Simp[a^IntPart[n]*((a*(b*v)^p)^FracPart[n]/(b*v)^(p*FracPart[n])) Int[ActivateTrig[u]*(b*v)^(n*p), x], x]] /; FreeQ[{a, b, c, d, n, p}, x] && InertTrigQ[F] && !IntegerQ[n] && !IntegerQ[p]
4889. $\text{Int}[u_, x_Symbol] \rightarrow$ With[{v = FunctionOfTrig[u, x]}, With[{d = FreeFactors[Tan[v], x]}, Simp[d/Coefficient[v, x, 1] Subst[Int[SubstFor[1/(1 + d^2*x^2), Tan[v]/d, u, x], x], x, Tan[v]/d], x]] /; !FalseQ[v] && FunctionOfQ[NonfreeFactors[Tan[v], x], u, x]] /; InverseFunctionFreeQ[u, x] && !MatchQ[u, (v_.) * ((c_.) * tan[w_]^(n_.) * tan[z_]^(n_.))^(p_.)] /; FreeQ[{c, p}, x] && IntegerQ[n] && LinearQ[w, x] && EqQ[z, 2*w]]
4890. $\text{Int}[(u_.) * ((c_.) * \sin[v_])^{(m_.)}, x_Symbol] \rightarrow$ With[{w = FunctionOfTrig[u * (Sin[v/2]^(2*m)/(c*Tan[v/2])^m), x]}, Simp[(c*SIN[v])^m * ((c*Tan[v/2])^m / Sin[v/2]^(2*m)) Int[u * (Sin[v/2]^(2*m)/(c*Tan[v/2])^m), x], x]] /; !FalseQ[w] && FunctionOfQ[NonfreeFactors[Tan[w], x], u * (Sin[v/2]^(2*m)/(c*Tan[v/2])^m), x]] /; FreeQ[c, x] && LinearQ[v, x] && IntegerQ[m + 1/2] && !SumQ[u] && InverseFunctionFreeQ[u, x]
4891. $\text{Int}[(u_.) * ((b_.) * \sec[(c_.) + (d_.) * (x_)]^{(n_.)} + (a_.) * \tan[(c_.) + (d_.) * (x_)]^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow$ Int[ActivateTrig[u]*Sec[c + d*x]^(n*p)*(b + a*SIN[c + d*x]^n)^p, x] /; FreeQ[{a, b, c, d}, x] && IntegersQ[n, p]
4892. $\text{Int}[(\cot[(c_.) + (d_.) * (x_)]^{(n_.)} * (a_.) + \csc[(c_.) + (d_.) * (x_)]^{(n_.)} * (b_.))^{(p_.)} * (u_.)], x_Symbol] \rightarrow$ Int[ActivateTrig[u]*Csc[c + d*x]^(n*p)*(b + a*Cos[c + d*x]^n)^p, x] /; FreeQ[{a, b, c, d}, x] && IntegersQ[n, p]

$Q[n, p]$

4893. $\text{Int}[(u_*)*((a_*)(F_)[(c_.) + (d_*)(x_)]^{(p_.)} + (b_*)(F_)[(c_.) + (d_*)(x_)]^{(q_.)})^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u*F[c + d*x]^{(n*p)}*(a + b*F[c + d*x]^{(q - p)})^n], x] /;$ $\text{FreeQ}\{a, b, c, d, p, q\}, x\} \&\& \text{InertTrigQ}[F] \&\& \text{IntegerQ}[n] \&\& \text{PosQ}[q - p]$
4894. $\text{Int}[(u_*)*((a_*)(F_)[(d_.) + (e_*)(x_)]^{(p_.)} + (b_*)(F_)[(d_.) + (e_*)(x_)]^{(q_.)} + (c_*)(F_)[(d_.) + (e_*)(x_)]^{(r_.)})^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u*F[d + e*x]^{(n*p)}*(a + b*F[d + e*x]^{(q - p)} + c*F[d + e*x]^{(r - p)})^n], x] /;$ $\text{FreeQ}\{a, b, c, d, e, p, q, r\}, x\} \&\& \text{InertTrigQ}[F] \&\& \text{IntegerQ}[n] \&\& \text{PosQ}[q - p] \&\& \text{PosQ}[r - p]$
4895. $\text{Int}[(u_*)*((a_.) + (b_*)(F_)[(d_.) + (e_*)(x_)]^{(p_.)} + (c_*)(F_)[(d_.) + (e_*)(x_)]^{(q_.)})^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u*F[d + e*x]^{(n*p)}*(b + a/F[d + e*x]^p + c*F[d + e*x]^{(q - p)})^n], x] /;$ $\text{FreeQ}\{a, b, c, d, e, p, q\}, x\} \&\& \text{InertTrigQ}[F] \&\& \text{IntegerQ}[n] \&\& \text{NegQ}[p]$
4896. $\text{Int}[(u_*)*(\cos[(c_.) + (d_*)(x_)]*(a_.) + (b_*)\sin[(c_.) + (d_*)(x_)]))^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ActivateTrig}[u*(a/E^{((a/b)*(c + d*x)})^n], x] /;$ $\text{FreeQ}\{a, b, c, d, n\}, x\} \&\& \text{EqQ}[a^2 + b^2, 0]$
4897. $\text{Int}[u_, x_Symbol] \rightarrow \text{Int}[\text{TrigSimplify}[u], x] /;$ $\text{TrigSimplifyQ}[u]$
4898. $\text{Int}[(u_*)*((a_*)(v_))^{(p_.)}, x_Symbol] \rightarrow \text{With}\{uu = \text{ActivateTrig}[u], v = \text{ActivateTrig}[v]\}, \text{Simp}[a^{\text{IntPart}[p]}*((a*v)^{\text{FracPart}[p]}/v^{\text{FracPart}[p]}) \text{Int}[uu*v^p, x], x] /;$ $\text{FreeQ}\{a, p\}, x\} \&\& !\text{IntegerQ}[p] \&\& !\text{InertTrigFreeQ}[v]$
4899. $\text{Int}[(u_*)*((v_)^{(m_))^{(p_.)}, x_Symbol] \rightarrow \text{With}\{uu = \text{ActivateTrig}[u], v = \text{ActivateTrig}[v]\}, \text{Simp}[(v^m)^{\text{FracPart}[p]}/v^{(m*\text{FracPart}[p])} \text{Int}[uu*v^{(m*p)}, x], x] /;$ $\text{FreeQ}\{m, p\}, x\} \&\& !\text{IntegerQ}[p] \&\& !\text{InertTrigFreeQ}[v]$
4900. $\text{Int}[(u_*)*((v_)^{(m_.)}*(w_)^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{With}\{uu = \text{ActivateTrig}[u], vv = \text{ActivateTrig}[v], ww = \text{ActivateTrig}[w]\}, \text{Simp}[(v^m*ww^$

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n)^FracPart[p]/(vv^(m*FracPart[p])*ww^(n*FracPart[p])) Int[uu*vv^(m*
p)*ww^(n*p), x], x] /; FreeQ[{m, n, p}, x] && !IntegerQ[p] && (!Ine
rtTrigFreeQ[v] || !InertTrigFreeQ[w])

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4901. `Int[u_, x_Symbol] := With[{v = ExpandTrig[u, x]}, Int[v, x] /; SumQ[v] ] /; !InertTrigFreeQ[u]`
4902. `Int[u_, x_Symbol] := With[{w = Block[{$ShowSteps = False, $StepCounter = Null}, Int[SubstFor[1/(1 + FreeFactors[Tan[FunctionOfTrig[u, x]/2], x]^2*x^2), Tan[FunctionOfTrig[u, x]/2]/FreeFactors[Tan[FunctionOfTrig[u, x]/2], x], u, x], x]]}, Module[{v = FunctionOfTrig[u, x], d}, Simp[d = FreeFactors[Tan[v/2], x]; 2*(d/Coefficient[v, x, 1]) Subst[Int[SubstFor[1/(1 + d^2*x^2), Tan[v/2]/d, u, x], x], x, Tan[v/2]/d], x]] /; CalculusFreeQ[w, x] /; InverseFunctionFreeQ[u, x] && !FalseQ[FunctionOfTrig[u, x]]`
4903. `Int[u_, x_Symbol] := With[{v = ActivateTrig[u]}, CannotIntegrate[v, x] ] /; !InertTrigFreeQ[u]`
4904. `Int[Cos[(a_.) + (b_.)*(x_)]*((c_.) + (d_.)*(x_))^(m_.)*Sin[(a_.) + (b_.)*(x_)]^(n_.), x_Symbol] := Simp[(c + d*x)^m*(Sin[a + b*x]^(n + 1)/(b*(n + 1))), x] - Simp[d*(m/(b*(n + 1))) Int[(c + d*x)^(m - 1)*Sin[a + b*x]^(n + 1), x], x] /; FreeQ[{a, b, c, d, n}, x] && IGtQ[m, 0] && NeQ[n, -1]`
4905. `Int[Cos[(a_.) + (b_.)*(x_)]^(n_.)*((c_.) + (d_.)*(x_))^(m_.)*Sin[(a_.) + (b_.)*(x_)], x_Symbol] := Simp[(-(c + d*x)^m)*(Cos[a + b*x]^(n + 1)/(b*(n + 1))), x] + Simp[d*(m/(b*(n + 1))) Int[(c + d*x)^(m - 1)*Cos[a + b*x]^(n + 1), x], x] /; FreeQ[{a, b, c, d, n}, x] && IGtQ[m, 0] && NeQ[n, -1]`
4906. `Int[Cos[(a_.) + (b_.)*(x_)]^(p_.)*((c_.) + (d_.)*(x_))^(m_.)*Sin[(a_.) + (b_.)*(x_)]^(n_.), x_Symbol] := Int[ExpandTrigReduce[(c + d*x)^m, Sin[a + b*x]^(n*p)Cos[a + b*x]^p, x], x] /; FreeQ[{a, b, c, d, m}, x] && IGtQ[n, 0] && IGtQ[p, 0]`

4907.  $\text{Int}[(c + d(x))^m \sin[a + b(x)]^n \tan[a + b(x)]^p, x\_Symbol] := -\text{Int}[(c + d(x))^m \sin[a + b(x)]^n \tan[a + b(x)]^{p-2}, x] + \text{Int}[(c + d(x))^m \sin[a + b(x)]^{n-2} \tan[a + b(x)]^p, x] /;$   $\text{FreeQ}\{a, b, c, d, m, x\} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IGtQ}[p, 0]$
4908.  $\text{Int}[\cos[a + b(x)]^n \cot[a + b(x)]^p ((c + d(x))^m), x\_Symbol] := -\text{Int}[(c + d(x))^m \cos[a + b(x)]^n \cot[a + b(x)]^{p-2}, x] + \text{Int}[(c + d(x))^m \cos[a + b(x)]^{n-2} \cot[a + b(x)]^p, x] /;$   $\text{FreeQ}\{a, b, c, d, m, x\} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IGtQ}[p, 0]$
4909.  $\text{Int}[(c + d(x))^m \sec[a + b(x)]^n \tan[a + b(x)]^p, x\_Symbol] := \text{Simp}[(c + d(x))^m (\sec[a + b(x)]^n / (b^n)), x] - \text{Simp}[d(m/(b^n)) \text{Int}[(c + d(x))^{m-1} \sec[a + b(x)]^n, x], x] /;$   $\text{FreeQ}\{a, b, c, d, n, x\} \ \&\& \ \text{EqQ}[p, 1] \ \&\& \ \text{GtQ}[m, 0]$
4910.  $\text{Int}[\cot[a + b(x)]^p \csc[a + b(x)]^n ((c + d(x))^m), x\_Symbol] := \text{Simp}[(-(c + d(x))^m) (\csc[a + b(x)]^n / (b^n)), x] + \text{Simp}[d(m/(b^n)) \text{Int}[(c + d(x))^{m-1} \csc[a + b(x)]^n, x], x] /;$   $\text{FreeQ}\{a, b, c, d, n, x\} \ \&\& \ \text{EqQ}[p, 1] \ \&\& \ \text{GtQ}[m, 0]$
4911.  $\text{Int}[(c + d(x))^m \sec[a + b(x)]^{2n} \tan[a + b(x)]^p, x\_Symbol] := \text{Simp}[(c + d(x))^m (\tan[a + b(x)]^{n+1} / (b^{n+1})), x] - \text{Simp}[d(m/(b^{n+1})) \text{Int}[(c + d(x))^{m-1} \tan[a + b(x)]^{n+1}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, n, x\} \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{NeQ}[n, -1]$
4912.  $\text{Int}[\cot[a + b(x)]^n \csc[a + b(x)]^{2n} ((c + d(x))^m), x\_Symbol] := \text{Simp}[(-(c + d(x))^m) (\cot[a + b(x)]^{n+1} / (b^{n+1})), x] + \text{Simp}[d(m/(b^{n+1})) \text{Int}[(c + d(x))^{m-1} \cot[a + b(x)]^{n+1}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, n, x\} \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{NeQ}[n, -1]$
4913.  $\text{Int}[(c + d(x))^m \sec[a + b(x)] \tan[a + b(x)]^p, x\_Symbol] := -\text{Int}[(c + d(x))^m \sec[a + b(x)] \tan[a + b(x)]^{p-2}, x] + \text{Int}[(c + d(x))^m \sec[a + b(x)]^3 \tan[a + b(x)]^{p-2}, x] /;$   $\text{FreeQ}\{a, b, c, d, m, x\} \ \&\& \ \text{IGtQ}[p/2, 0]$

4914.  $\text{Int}[(c_.) + (d_.)(x_)^m_.] \cdot \text{Sec}[(a_.) + (b_.)(x_)^n_.] \cdot \text{Tan}[(a_.) + (b_.)(x_)^p_.], x\_Symbol] \rightarrow -\text{Int}[(c + d*x)^m \cdot \text{Sec}[a + b*x]^n \cdot \text{Tan}[a + b*x]^{p-2}, x] + \text{Int}[(c + d*x)^m \cdot \text{Sec}[a + b*x]^{n+2} \cdot \text{Tan}[a + b*x]^{p-2}, x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \ \&\& \ \text{IGtQ}[p/2, 0]$
4915.  $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_)^p_.] \cdot \text{Csc}[(a_.) + (b_.)(x_)^m_.] \cdot ((c_.) + (d_.)(x_)^m_.), x\_Symbol] \rightarrow -\text{Int}[(c + d*x)^m \cdot \text{Csc}[a + b*x] \cdot \text{Cot}[a + b*x]^{p-2}, x] + \text{Int}[(c + d*x)^m \cdot \text{Csc}[a + b*x]^3 \cdot \text{Cot}[a + b*x]^{p-2}, x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{IGtQ}[p/2, 0]$
4916.  $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_)^p_.] \cdot \text{Csc}[(a_.) + (b_.)(x_)^n_.] \cdot ((c_.) + (d_.)(x_)^m_.), x\_Symbol] \rightarrow -\text{Int}[(c + d*x)^m \cdot \text{Csc}[a + b*x]^n \cdot \text{Cot}[a + b*x]^{p-2}, x] + \text{Int}[(c + d*x)^m \cdot \text{Csc}[a + b*x]^{n+2} \cdot \text{Cot}[a + b*x]^{p-2}, x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \ \&\& \ \text{IGtQ}[p/2, 0]$
4917.  $\text{Int}[(c_.) + (d_.)(x_)^m_.] \cdot \text{Sec}[(a_.) + (b_.)(x_)^n_.] \cdot \text{Tan}[(a_.) + (b_.)(x_)^p_.], x\_Symbol] \rightarrow \text{Module}[\{u = \text{IntHide}[\text{Sec}[a + b*x]^n \cdot \text{Tan}[a + b*x]^p, x]\}, \text{Simp}[(c + d*x)^m \cdot u, x] - \text{Simp}[d*m \cdot \text{Int}[(c + d*x)^{m-1} \cdot u, x], x]] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ (\text{IntegerQ}[n/2] \ || \ \text{IntegerQ}[(p-1)/2])$
4918.  $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_)^p_.] \cdot \text{Csc}[(a_.) + (b_.)(x_)^n_.] \cdot ((c_.) + (d_.)(x_)^m_.), x\_Symbol] \rightarrow \text{Module}[\{u = \text{IntHide}[\text{Csc}[a + b*x]^n \cdot \text{Cot}[a + b*x]^p, x]\}, \text{Simp}[(c + d*x)^m \cdot u, x] - \text{Simp}[d*m \cdot \text{Int}[(c + d*x)^{m-1} \cdot u, x], x]] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ (\text{IntegerQ}[n/2] \ || \ \text{IntegerQ}[(p-1)/2])$
4919.  $\text{Int}[\text{Csc}[(a_.) + (b_.)(x_)^n_.] \cdot ((c_.) + (d_.)(x_)^m_.) \cdot \text{Sec}[(a_.) + (b_.)(x_)^p_.], x\_Symbol] \rightarrow \text{Simp}[2^n \cdot \text{Int}[(c + d*x)^m \cdot \text{Csc}[2*a + 2*b*x]^n, x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{RationalQ}[m]$
4920.  $\text{Int}[\text{Csc}[(a_.) + (b_.)(x_)^n_.] \cdot ((c_.) + (d_.)(x_)^m_.) \cdot \text{Sec}[(a_.) + (b_.)(x_)^p_.], x\_Symbol] \rightarrow \text{Module}[\{u = \text{IntHide}[\text{Csc}[a + b*x]^n \cdot \text{Sec}[a + b*x]^p, x]\}, \text{Simp}[(c + d*x)^m \cdot u, x] - \text{Simp}[d*m \cdot \text{Int}[(c + d*x)^{m-1} \cdot u, x], x]] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{IntegersQ}[n, p] \ \&\&$

GtQ[m, 0] && NeQ[n, p]

4921.  $\text{Int}[(u_)^{(m_.)}(F_)[v_]^{(n_.)}(G_)[w_]^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m F[\text{ExpandToSum}[v, x]]^n G[\text{ExpandToSum}[v, x]]^p, x] /; \text{FreeQ}[\{m, n, p\}, x] \&\& \text{TrigQ}[F] \&\& \text{TrigQ}[G] \&\& \text{EqQ}[v, w] \&\& \text{LinearQ}[\{u, v, w\}, x] \&\& \text{!LinearMatchQ}[\{u, v, w\}, x]$
4922.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_)] * ((e_.) + (f_.)(x_))^{(m_.)} * ((a_.) + (b_.) \text{Sin}[(c_.) + (d_.)(x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^m * ((a + b*\text{Sin}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] - \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b*\text{Sin}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
4923.  $\text{Int}[(\text{Cos}[(c_.) + (d_.)(x_)] * (b_.) + (a_.))^{(n_.)} * ((e_.) + (f_.)(x_))^{(m_.)} * \text{Sin}[(c_.) + (d_.)(x_)], x\_Symbol] \rightarrow \text{Simp}[(- (e + f*x)^m * ((a + b*\text{Cos}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] + \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b*\text{Cos}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
4924.  $\text{Int}[( (e_.) + (f_.)(x_))^{(m_.)} * \text{Sec}[(c_.) + (d_.)(x_)]^2 * ((a_.) + (b_.) * \text{Tan}[(c_.) + (d_.)(x_)])^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^m * ((a + b * \text{Tan}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] - \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b * \text{Tan}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
4925.  $\text{Int}[\text{Csc}[(c_.) + (d_.)(x_)]^2 * (\text{Cot}[(c_.) + (d_.)(x_)] * (b_.) + (a_.))^{(n_.)} * ((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(- (e + f*x)^m * ((a + b*\text{Cot}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] + \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b*\text{Cot}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
4926.  $\text{Int}[( (e_.) + (f_.)(x_))^{(m_.)} * \text{Sec}[(c_.) + (d_.)(x_)] * ((a_.) + (b_.) * \text{Sec}[(c_.) + (d_.)(x_)])^{(n_.)} * \text{Tan}[(c_.) + (d_.)(x_)], x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^m * ((a + b*\text{Sec}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] - \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b*\text{Sec}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n,$

-1]

4927.  $\text{Int}[\text{Cot}[(c_.) + (d_.)(x_)]*\text{Csc}[(c_.) + (d_.)(x_)]*(\text{Csc}[(c_.) + (d_.)(x_)]*(b_.) + (a_.))^{(n_.)*((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] := \text{Simp}[(-e + f*x)^m*((a + b*\text{Csc}[c + d*x])^{(n + 1)/(b*d*(n + 1))}), x] + \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)}*(a + b*\text{Csc}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
4928.  $\text{Int}[((e_.) + (f_.)(x_))^{(m_.)*\text{Sin}[(a_.) + (b_.)(x_)]^{(p_.)*\text{Sin}[(c_.) + (d_.)(x_)]^{(q_.)}, x\_Symbol] := \text{Int}[\text{ExpandTrigReduce}[(e + f*x)^m, \text{Sin}[a + b*x]^{p*\text{Sin}[c + d*x]^q}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, 0] \&\& \text{IntegerQ}[m]$
4929.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)]^{(p_.)*\text{Cos}[(c_.) + (d_.)(x_)]^{(q_.)*((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] := \text{Int}[\text{ExpandTrigReduce}[(e + f*x)^m, \text{Cos}[a + b*x]^{p*\text{Cos}[c + d*x]^q}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, 0] \&\& \text{IntegerQ}[m]$
4930.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_)]^{(q_.)*((e_.) + (f_.)(x_))^{(m_.)*\text{Sin}[(a_.) + (b_.)(x_)]^{(p_.)}, x\_Symbol] := \text{Int}[\text{ExpandTrigReduce}[(e + f*x)^m, \text{Sin}[a + b*x]^{p*\text{Cos}[c + d*x]^q}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, 0]$
4931.  $\text{Int}[((e_.) + (f_.)(x_))^{(m_.)*(F\_)[(a_.) + (b_.)(x_)]^{(p_.)*(G\_)[(c_.) + (d_.)(x_)]^{(q_.)}, x\_Symbol] := \text{Int}[\text{ExpandTrigExpand}[(e + f*x)^m*G[c + d*x]^q, F, c + d*x, p, b/d, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{MemberQ}[\{\text{Sin}, \text{Cos}\}, F] \&\& \text{MemberQ}[\{\text{Sec}, \text{Csc}\}, G] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, 0] \&\& \text{EqQ}[b*c - a*d, 0] \&\& \text{IGtQ}[b/d, 1]$
4932.  $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)(x_)))*\text{Sin}[(d_.) + (e_.)(x_)]}, x\_Symbol] := \text{Simp}[b*c*\text{Log}[F]*F^{(c*(a + b*x))*(\text{Sin}[d + e*x]/(e^2 + b^2*c^2*\text{Log}[F]^2)), x] - \text{Simp}[e*F^{(c*(a + b*x))*(\text{Cos}[d + e*x]/(e^2 + b^2*c^2*\text{Log}[F]^2)), x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{NeQ}[e^2 + b^2*c^2*\text{Log}[F]^2, 0]$



4933.  $\text{Int}[\text{Cos}[(d_.) + (e_.)(x_.)]*(F_)^((c_.)*((a_.) + (b_.)(x_.))), x\_Symbol] \rightarrow \text{Simp}[b*c*\text{Log}[F]*F^{(c*(a + b*x))}*(\text{Cos}[d + e*x]/(e^2 + b^2*c^2*\text{Log}[F]^2)), x] + \text{Simp}[e*F^{(c*(a + b*x))}*(\text{Sin}[d + e*x]/(e^2 + b^2*c^2*\text{Log}[F]^2)), x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[e^2 + b^2*c^2*\text{Log}[F]^2, 0]$
4934.  $\text{Int}[(F_)^((c_.)*((a_.) + (b_.)(x_.)))*\text{Sin}[(d_.) + (e_.)(x_.)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[b*c*\text{Log}[F]*F^{(c*(a + b*x))}*(\text{Sin}[d + e*x]^n/(e^{2*n^2} + b^2*c^2*\text{Log}[F]^2)), x] + (-\text{Simp}[e*n*F^{(c*(a + b*x))}*\text{Cos}[d + e*x]*(\text{Sin}[d + e*x]^{(n - 1)}/(e^{2*n^2} + b^2*c^2*\text{Log}[F]^2)), x] + \text{Simp}[(n*(n - 1)*e^2)/(e^{2*n^2} + b^2*c^2*\text{Log}[F]^2) \ \text{Int}[F^{(c*(a + b*x))}*\text{Sin}[d + e*x]^{(n - 2)}, x], x]) /; \text{FreeQ}\{F, a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[e^{2*n^2} + b^2*c^2*\text{Log}[F]^2, 0] \ \&\& \ \text{GtQ}[n, 1]$
4935.  $\text{Int}[\text{Cos}[(d_.) + (e_.)(x_.)]^{(m_.)}*(F_)^((c_.)*((a_.) + (b_.)(x_.))), x\_Symbol] \rightarrow \text{Simp}[b*c*\text{Log}[F]*F^{(c*(a + b*x))}*(\text{Cos}[d + e*x]^m/(e^{2*m^2} + b^2*c^2*\text{Log}[F]^2)), x] + (\text{Simp}[e*m*F^{(c*(a + b*x))}*\text{Sin}[d + e*x]*(\text{Cos}[d + e*x]^{(m - 1)}/(e^{2*m^2} + b^2*c^2*\text{Log}[F]^2)), x] + \text{Simp}[(m*(m - 1)*e^2)/(e^{2*m^2} + b^2*c^2*\text{Log}[F]^2) \ \text{Int}[F^{(c*(a + b*x))}*\text{Cos}[d + e*x]^{(m - 2)}, x], x]) /; \text{FreeQ}\{F, a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[e^{2*m^2} + b^2*c^2*\text{Log}[F]^2, 0] \ \&\& \ \text{GtQ}[m, 1]$
4936.  $\text{Int}[(F_)^((c_.)*((a_.) + (b_.)(x_.)))*\text{Sin}[(d_.) + (e_.)(x_.)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a + b*x))}*(\text{Sin}[d + e*x]^{(n + 2)}/(e^{2*(n + 1)*(n + 2)})), x] + \text{Simp}[F^{(c*(a + b*x))}*\text{Cos}[d + e*x]*(\text{Sin}[d + e*x]^{(n + 1)}/(e*(n + 1))), x] /; \text{FreeQ}\{F, a, b, c, d, e, n\}, x \ \&\& \ \text{EqQ}[e^{2*(n + 2)} + b^2*c^2*\text{Log}[F]^2, 0] \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{NeQ}[n, -2]$
4937.  $\text{Int}[\text{Cos}[(d_.) + (e_.)(x_.)]^{(n_.)}*(F_)^((c_.)*((a_.) + (b_.)(x_.))), x\_Symbol] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a + b*x))}*(\text{Cos}[d + e*x]^{(n + 2)}/(e^{2*(n + 1)*(n + 2)})), x] - \text{Simp}[F^{(c*(a + b*x))}*\text{Sin}[d + e*x]*(\text{Cos}[d + e*x]^{(n + 1)}/(e*(n + 1))), x] /; \text{FreeQ}\{F, a, b, c, d, e, n\}, x \ \&\& \ \text{EqQ}[e^{2*(n + 2)} + b^2*c^2*\text{Log}[F]^2, 0] \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{NeQ}[n, -2]$
4938.  $\text{Int}[(F_)^((c_.)*((a_.) + (b_.)(x_.)))*\text{Sin}[(d_.) + (e_.)(x_.)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a + b*x))}*(\text{Sin}[d + e*x]^{(n + 2)}/(e^{2*(n + 1)*(n + 2)})), x] + (\text{Simp}[F^{(c*(a + b*x))}*\text{Cos}[d + e*x]*(\text{Sin}[d +$

- $$e^x]^{(n+1)/(e*(n+1))}, x] + \text{Simp}[(e^{2*(n+2)^2} + b^2*c^2*\text{Log}[F]^{2})/(e^{2*(n+1)*(n+2)}) \text{Int}[F^{(c*(a+b*x))*\text{Sin}[d+e*x]^{(n+2)}, x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{NeQ}[e^{2*(n+2)^2} + b^2*c^2*\text{Log}[F]^2, 0] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[n, -2]$$
4939.  $\text{Int}[\text{Cos}[(d_.) + (e_.)*(x_)]^{(n_)}*(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a+b*x))*(\text{Cos}[d+e*x]^{(n+2)})/(e^{2*(n+1)*(n+2)})}, x] + (-\text{Simp}[F^{(c*(a+b*x))*\text{Sin}[d+e*x]*(\text{Cos}[d+e*x]^{(n+1)})/(e*(n+1))}, x] + \text{Simp}[(e^{2*(n+2)^2} + b^2*c^2*\text{Log}[F]^{2})/(e^{2*(n+1)*(n+2)}) \text{Int}[F^{(c*(a+b*x))*\text{Cos}[d+e*x]^{(n+2)}, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{NeQ}[e^{2*(n+2)^2} + b^2*c^2*\text{Log}[F]^2, 0] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[n, -2]$
4940.  $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Sin}[(d_.) + (e_.)*(x_)]^{(n_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[E^{(I*n*(d+e*x))*(\text{Sin}[d+e*x]^{n/(-1+E^{(2*I*(d+e*x))})})^n} \text{Int}[F^{(c*(a+b*x))*((-1+E^{(2*I*(d+e*x))})^n/E^{(I*n*(d+e*x))}), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, n\}, x] \&\& !\text{IntegerQ}[n]$
4941.  $\text{Int}[\text{Cos}[(d_.) + (e_.)*(x_)]^{(n_)}*(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}, x\_ \text{Symbol}] \rightarrow \text{Simp}[E^{(I*n*(d+e*x))*(\text{Cos}[d+e*x]^{n/(1+E^{(2*I*(d+e*x))})})^n} \text{Int}[F^{(c*(a+b*x))*((1+E^{(2*I*(d+e*x))})^n/E^{(I*n*(d+e*x))}), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, n\}, x] \&\& !\text{IntegerQ}[n]$
4942.  $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Tan}[(d_.) + (e_.)*(x_)]^{(n_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[I^n \text{Int}[\text{ExpandIntegrand}[F^{(c*(a+b*x))*((1-E^{(2*I*(d+e*x))})^n/(1+E^{(2*I*(d+e*x))})^n)}, x], x], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{IntegerQ}[n]$
4943.  $\text{Int}[\text{Cot}[(d_.) + (e_.)*(x_)]^{(n_)}*(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(-I)^n \text{Int}[\text{ExpandIntegrand}[F^{(c*(a+b*x))*((1+E^{(2*I*(d+e*x))})^n/(1-E^{(2*I*(d+e*x))})^n)}, x], x], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{IntegerQ}[n]$
4944.  $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Sec}[(d_.) + (e_.)*(x_)]^{(n_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[b*c*\text{Log}[F]*F^{(c*(a+b*x))*(\text{Sec}[d+e*x]^{n/(e^{2*n^2} + b^2*c^2*\text{Log}[F]^2)})}, x] + (-\text{Simp}[e^n*F^{(c*(a+b*x))*\text{Sec}[d+e*x]^{(n+1)}*(\text{Sin}[d+e*x]/(e^{2*n^2} + b^2*c^2*\text{Log}[F]^2))}, x] + \text{Simp}[e^{2*n}*((n+1)$

- 1)/(e<sup>2</sup>\*n<sup>2</sup> + b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup>) Int[F<sup>c\*(a + b\*x)</sup>\*Sec[d + e\*x]<sup>(n + 2)</sup>, x], x] /; FreeQ[{F, a, b, c, d, e}, x] && NeQ[e<sup>2</sup>\*n<sup>2</sup> + b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup>, 0] && LtQ[n, -1]
4945. Int[Csc[(d\_.) + (e\_.)\*(x\_.)]<sup>(n\_)</sup>\*(F\_)<sup>((c\_.)\*((a\_.) + (b\_.)\*(x\_.)))</sup>, x\_ Symbol] :> Simp[b\*c\*Log[F]\*F<sup>c\*(a + b\*x)</sup>\*(Csc[d + e\*x]<sup>n/(e<sup>2</sup>\*n<sup>2</sup> + b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup>))</sup>, x] + (Simp[e\*n\*F<sup>c\*(a + b\*x)</sup>\*Csc[d + e\*x]<sup>(n + 1)</sup>\*(Cos[d + e\*x]/(e<sup>2</sup>\*n<sup>2</sup> + b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup>)), x] + Simp[e<sup>2</sup>\*n\*(n + 1)/(e<sup>2</sup>\*n<sup>2</sup> + b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup>) Int[F<sup>c\*(a + b\*x)</sup>\*Csc[d + e\*x]<sup>(n + 2)</sup>, x], x] /; FreeQ[{F, a, b, c, d, e}, x] && NeQ[e<sup>2</sup>\*n<sup>2</sup> + b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup>, 0] && LtQ[n, -1]
4946. Int[(F\_)<sup>((c\_.)\*((a\_.) + (b\_.)\*(x\_.)))</sup>\*Sec[(d\_.) + (e\_.)\*(x\_.)]<sup>(n\_)</sup>, x\_ Symbol] :> Simp[(-b)\*c\*Log[F]\*F<sup>c\*(a + b\*x)</sup>\*(Sec[d + e\*x]<sup>(n - 2)/(e<sup>2</sup>\*(n - 1)\*(n - 2))</sup>), x] + Simp[F<sup>c\*(a + b\*x)</sup>\*Sec[d + e\*x]<sup>(n - 1)</sup>\*(Sin[d + e\*x]/(e\*(n - 1))), x] /; FreeQ[{F, a, b, c, d, e, n}, x] && EqQ[b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup> + e<sup>2</sup>\*(n - 2)<sup>2</sup>, 0] && NeQ[n, 1] && NeQ[n, 2]
4947. Int[Csc[(d\_.) + (e\_.)\*(x\_.)]<sup>(n\_)</sup>\*(F\_)<sup>((c\_.)\*((a\_.) + (b\_.)\*(x\_.)))</sup>, x\_ Symbol] :> Simp[(-b)\*c\*Log[F]\*F<sup>c\*(a + b\*x)</sup>\*(Csc[d + e\*x]<sup>(n - 2)/(e<sup>2</sup>\*(n - 1)\*(n - 2))</sup>), x] + Simp[F<sup>c\*(a + b\*x)</sup>\*Csc[d + e\*x]<sup>(n - 1)</sup>\*(Cos[d + e\*x]/(e\*(n - 1))), x] /; FreeQ[{F, a, b, c, d, e, n}, x] && EqQ[b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup> + e<sup>2</sup>\*(n - 2)<sup>2</sup>, 0] && NeQ[n, 1] && NeQ[n, 2]
4948. Int[(F\_)<sup>((c\_.)\*((a\_.) + (b\_.)\*(x\_.)))</sup>\*Sec[(d\_.) + (e\_.)\*(x\_.)]<sup>(n\_)</sup>, x\_ Symbol] :> Simp[(-b)\*c\*Log[F]\*F<sup>c\*(a + b\*x)</sup>\*(Sec[d + e\*x]<sup>(n - 2)/(e<sup>2</sup>\*(n - 1)\*(n - 2))</sup>), x] + (Simp[F<sup>c\*(a + b\*x)</sup>\*Sec[d + e\*x]<sup>(n - 1)</sup>\*(Sin[d + e\*x]/(e\*(n - 1))), x] + Simp[(e<sup>2</sup>\*(n - 2)<sup>2</sup> + b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup>)/(e<sup>2</sup>\*(n - 1)\*(n - 2)) Int[F<sup>c\*(a + b\*x)</sup>\*Sec[d + e\*x]<sup>(n - 2)</sup>, x], x] /; FreeQ[{F, a, b, c, d, e}, x] && NeQ[b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup> + e<sup>2</sup>\*(n - 2)<sup>2</sup>, 0] && GtQ[n, 1] && NeQ[n, 2]
4949. Int[Csc[(d\_.) + (e\_.)\*(x\_.)]<sup>(n\_)</sup>\*(F\_)<sup>((c\_.)\*((a\_.) + (b\_.)\*(x\_.)))</sup>, x\_ Symbol] :> Simp[(-b)\*c\*Log[F]\*F<sup>c\*(a + b\*x)</sup>\*(Csc[d + e\*x]<sup>(n - 2)/(e<sup>2</sup>\*(n - 1)\*(n - 2))</sup>), x] + (-Simp[F<sup>c\*(a + b\*x)</sup>\*Csc[d + e\*x]<sup>(n - 1)</sup>\*(Cos[d + e\*x]/(e\*(n - 1))), x] + Simp[(e<sup>2</sup>\*(n - 2)<sup>2</sup> + b<sup>2</sup>\*c<sup>2</sup>\*Log[F]<sup>2</sup>)/(e<sup>2</sup>\*(n - 1)\*(n - 2)) Int[F<sup>c\*(a + b\*x)</sup>\*Csc[d + e\*x]<sup>(n - 2)</sup>,

- $x], x]) /; \text{FreeQ}\{F, a, b, c, d, e\}, x\} \&\& \text{NeQ}[b^2*c^2*\text{Log}[F]^2 + e^2*(n - 2)^2, 0] \&\& \text{GtQ}[n, 1] \&\& \text{NeQ}[n, 2]$
4950.  $\text{Int}[(F_)^{\wedge}((c_.) * (a_.) + (b_.) * (x_)) * \text{Sec}[(d_.) + \text{Pi} * (k_.) + (e_.) * (x_)]^{\wedge}(n_.), x\_Symbol] :> \text{Simp}[2^{\wedge}n * E^{\wedge}(I * k * n * \text{Pi}) * E^{\wedge}(I * n * (d + e * x)) * (F^{\wedge}(c * (a + b * x)) / (I * e * n + b * c * \text{Log}[F])) * \text{Hypergeometric2F1}[n, n/2 - I * b * c * (\text{Log}[F] / (2 * e)), 1 + n/2 - I * b * c * (\text{Log}[F] / (2 * e)), (-E^{\wedge}(2 * I * k * \text{Pi})) * E^{\wedge}(2 * I * (d + e * x))], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x\} \&\& \text{IntegerQ}[4 * k] \&\& \text{IntegerQ}[n]$
4951.  $\text{Int}[(F_)^{\wedge}((c_.) * (a_.) + (b_.) * (x_)) * \text{Sec}[(d_.) + (e_.) * (x_)]^{\wedge}(n_.), x\_Symbol] :> \text{Simp}[2^{\wedge}n * E^{\wedge}(I * n * (d + e * x)) * (F^{\wedge}(c * (a + b * x)) / (I * e * n + b * c * \text{Log}[F])) * \text{Hypergeometric2F1}[n, n/2 - I * b * c * (\text{Log}[F] / (2 * e)), 1 + n/2 - I * b * c * (\text{Log}[F] / (2 * e)), -E^{\wedge}(2 * I * (d + e * x))], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x\} \&\& \text{IntegerQ}[n]$
4952.  $\text{Int}[\text{Csc}[(d_.) + \text{Pi} * (k_.) + (e_.) * (x_)]^{\wedge}(n_.) * (F_)^{\wedge}((c_.) * (a_.) + (b_.) * (x_)), x\_Symbol] :> \text{Simp}[(-2 * I)^{\wedge}n * E^{\wedge}(I * k * n * \text{Pi}) * E^{\wedge}(I * n * (d + e * x)) * (F^{\wedge}(c * (a + b * x)) / (I * e * n + b * c * \text{Log}[F])) * \text{Hypergeometric2F1}[n, n/2 - I * b * c * (\text{Log}[F] / (2 * e)), 1 + n/2 - I * b * c * (\text{Log}[F] / (2 * e)), E^{\wedge}(2 * I * k * \text{Pi}) * E^{\wedge}(2 * I * (d + e * x))], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x\} \&\& \text{IntegerQ}[4 * k] \&\& \text{IntegerQ}[n]$
4953.  $\text{Int}[\text{Csc}[(d_.) + (e_.) * (x_)]^{\wedge}(n_.) * (F_)^{\wedge}((c_.) * (a_.) + (b_.) * (x_)), x\_Symbol] :> \text{Simp}[(-2 * I)^{\wedge}n * E^{\wedge}(I * n * (d + e * x)) * (F^{\wedge}(c * (a + b * x)) / (I * e * n + b * c * \text{Log}[F])) * \text{Hypergeometric2F1}[n, n/2 - I * b * c * (\text{Log}[F] / (2 * e)), 1 + n/2 - I * b * c * (\text{Log}[F] / (2 * e)), E^{\wedge}(2 * I * (d + e * x))], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x\} \&\& \text{IntegerQ}[n]$
4954.  $\text{Int}[(F_)^{\wedge}((c_.) * (a_.) + (b_.) * (x_)) * \text{Sec}[(d_.) + (e_.) * (x_)]^{\wedge}(n_.), x\_Symbol] :> \text{Simp}[(1 + E^{\wedge}(2 * I * (d + e * x)))^{\wedge}n * (\text{Sec}[d + e * x]^{\wedge}n / E^{\wedge}(I * n * (d + e * x))) \text{Int}[\text{SimplifyIntegrand}[F^{\wedge}(c * (a + b * x)) * (E^{\wedge}(I * n * (d + e * x)) / (1 + E^{\wedge}(2 * I * (d + e * x)))^{\wedge}n], x], x], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x\} \&\& \text{IntegerQ}[n]$
4955.  $\text{Int}[\text{Csc}[(d_.) + (e_.) * (x_)]^{\wedge}(n_.) * (F_)^{\wedge}((c_.) * (a_.) + (b_.) * (x_)), x\_Symbol] :> \text{Simp}[(1 - E^{\wedge}(-2 * I * (d + e * x)))^{\wedge}n * (\text{Csc}[d + e * x]^{\wedge}n / E^{\wedge}((-I) * n * (d + e * x)))^{\wedge}n, x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x\} \&\& \text{IntegerQ}[n]$

- (d + e\*x))) Int[SimplifyIntegrand[F^(c\*(a + b\*x))\*(1/(E^(I\*n\*(d + e\*x)))\*(1 - E^(-2\*I\*(d + e\*x)))^n)], x], x] /; FreeQ[{F, a, b, c, d, e}, x] && !IntegerQ[n]
4956. Int[(F\_)^((c\_)\*((a\_) + (b\_)\*(x\_)))\*((f\_) + (g\_)\*Sin[(d\_) + (e\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[2^n\*f^n Int[F^(c\*(a + b\*x))\*Cos[d/2 - f\*(Pi/(4\*g)) + e\*(x/2)]^(2\*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g}, x] && EqQ[f^2 - g^2, 0] && ILtQ[n, 0]
4957. Int[(Cos[(d\_) + (e\_)\*(x\_)]\*(g\_) + (f\_))^(n\_)\*(F\_)^((c\_)\*((a\_) + (b\_)\*(x\_))), x\_Symbol] := Simp[2^n\*f^n Int[F^(c\*(a + b\*x))\*Cos[d/2 + e\*(x/2)]^(2\*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g}, x] && EqQ[f - g, 0] && ILtQ[n, 0]
4958. Int[(Cos[(d\_) + (e\_)\*(x\_)]\*(g\_) + (f\_))^(n\_)\*(F\_)^((c\_)\*((a\_) + (b\_)\*(x\_))), x\_Symbol] := Simp[2^n\*f^n Int[F^(c\*(a + b\*x))\*Sin[d/2 + e\*(x/2)]^(2\*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g}, x] && EqQ[f + g, 0] && ILtQ[n, 0]
4959. Int[(F\_)^((c\_)\*((a\_) + (b\_)\*(x\_)))\*((f\_) + (g\_)\*Sin[(d\_) + (e\_)\*(x\_)])^(n\_), x\_Symbol] := Simp[(f + g\*Sin[d + e\*x])^n/Cos[d/2 - f\*(Pi/(4\*g)) + e\*(x/2)]^(2\*n) Int[F^(c\*(a + b\*x))\*Cos[d/2 - f\*(Pi/(4\*g)) + e\*(x/2)]^(2\*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g, n}, x] && EqQ[f^2 - g^2, 0] && !IntegerQ[n]
4960. Int[(Cos[(d\_) + (e\_)\*(x\_)]\*(g\_) + (f\_))^(n\_)\*(F\_)^((c\_)\*((a\_) + (b\_)\*(x\_))), x\_Symbol] := Simp[(f + g\*Cos[d + e\*x])^n/Cos[d/2 + e\*(x/2)]^(2\*n) Int[F^(c\*(a + b\*x))\*Cos[d/2 + e\*(x/2)]^(2\*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g, n}, x] && EqQ[f - g, 0] && !IntegerQ[n]
4961. Int[(Cos[(d\_) + (e\_)\*(x\_)]\*(g\_) + (f\_))^(n\_)\*(F\_)^((c\_)\*((a\_) + (b\_)\*(x\_))), x\_Symbol] := Simp[(f + g\*Cos[d + e\*x])^n/Sin[d/2 + e\*(x/2)]^(2\*n) Int[F^(c\*(a + b\*x))\*Sin[d/2 + e\*(x/2)]^(2\*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g, n}, x] && EqQ[f + g, 0] && !IntegerQ[n]

4962.  $\text{Int}[\text{Cos}[(d\_.) + (e\_.)*(x\_)]^{(m\_)}*(F\_)^{((c\_)*((a\_.) + (b\_.)*(x\_)))}*((f\_.) + (g\_.)*\text{Sin}[(d\_.) + (e\_.)*(x\_)]^{(n\_)}], x\_Symbol] \rightarrow \text{Simp}[g^n \text{Int}[F^{(c*(a + b*x))*\text{Tan}[f*(\text{Pi}/(4*g)) - d/2 - e*(x/2)]^m, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[f^2 - g^2, 0] \&\& \text{IntegersQ}[m, n] \&\& \text{EqQ}[m + n, 0]$
4963.  $\text{Int}[(\text{Cos}[(d\_.) + (e\_.)*(x\_)]*(g\_.) + (f\_.)^{(n\_)}*(F\_)^{((c\_)*((a\_.) + (b\_.)*(x\_)))}*\text{Sin}[(d\_.) + (e\_.)*(x\_)]^{(m\_)}], x\_Symbol] \rightarrow \text{Simp}[f^n \text{Int}[F^{(c*(a + b*x))*\text{Tan}[d/2 + e*(x/2)]^m, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[f - g, 0] \&\& \text{IntegersQ}[m, n] \&\& \text{EqQ}[m + n, 0]$
4964.  $\text{Int}[(\text{Cos}[(d\_.) + (e\_.)*(x\_)]*(g\_.) + (f\_.)^{(n\_)}*(F\_)^{((c\_)*((a\_.) + (b\_.)*(x\_)))}*\text{Sin}[(d\_.) + (e\_.)*(x\_)]^{(m\_)}], x\_Symbol] \rightarrow \text{Simp}[f^n \text{Int}[F^{(c*(a + b*x))*\text{Cot}[d/2 + e*(x/2)]^m, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[f + g, 0] \&\& \text{IntegersQ}[m, n] \&\& \text{EqQ}[m + n, 0]$
4965.  $\text{Int}[(F\_)^{((c\_)*((a\_.) + (b\_.)*(x\_)))}*(\text{Cos}[(d\_.) + (e\_.)*(x\_)]*(i\_.) + (h\_)))/((f\_.) + (g\_.)*\text{Sin}[(d\_.) + (e\_.)*(x\_)]), x\_Symbol] \rightarrow \text{Simp}[2*i \text{Int}[F^{(c*(a + b*x))*(\text{Cos}[d + e*x]/(f + g*\text{Sin}[d + e*x]))}, x], x] + \text{Int}[F^{(c*(a + b*x))*((h - i*\text{Cos}[d + e*x])/(f + g*\text{Sin}[d + e*x]))}, x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, h, i\}, x] \&\& \text{EqQ}[f^2 - g^2, 0] \&\& \text{EqQ}[h^2 - i^2, 0] \&\& \text{EqQ}[g*h - f*i, 0]$
4966.  $\text{Int}[(F\_)^{((c\_)*((a\_.) + (b\_.)*(x\_)))}*((h\_.) + (i\_.)*\text{Sin}[(d\_.) + (e\_.)*(x\_)])/(\text{Cos}[(d\_.) + (e\_.)*(x\_)]*(g\_.) + (f\_)), x\_Symbol] \rightarrow \text{Simp}[2*i \text{Int}[F^{(c*(a + b*x))*(\text{Sin}[d + e*x]/(f + g*\text{Cos}[d + e*x]))}, x], x] + \text{Int}[F^{(c*(a + b*x))*((h - i*\text{Sin}[d + e*x])/(f + g*\text{Cos}[d + e*x]))}, x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, g, h, i\}, x] \&\& \text{EqQ}[f^2 - g^2, 0] \&\& \text{EqQ}[h^2 - i^2, 0] \&\& \text{EqQ}[g*h + f*i, 0]$
4967.  $\text{Int}[(F\_)^{((c\_)*(u\_))*(G\_)[v\_]}^{(n\_)}], x\_Symbol] \rightarrow \text{Int}[F^{(c*\text{ExpandToSum}[u, x])*G[\text{ExpandToSum}[v, x]]^n, x] /; \text{FreeQ}[\{F, c, n\}, x] \&\& \text{TrigQ}[G] \&\& \text{LinearQ}[\{u, v\}, x] \&\& !\text{LinearMatchQ}[\{u, v\}, x]$
4968.  $\text{Int}[(F\_)^{((c\_)*((a\_.) + (b\_.)*(x\_)))}*((f\_.)*(x\_))^{(m\_)}*\text{Sin}[(d\_.) + (e\_.)*(x\_)]^{(n\_)}], x\_Symbol] \rightarrow \text{Module}[\{u = \text{IntHide}[F^{(c*(a + b*x))*\text{Sin}[d + e*x]^n, x]\}, \text{Simp}[(f*x)^m u, x] - \text{Simp}[f*m \text{Int}[(f*x)^{(m - 1)}*$

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u, x], x]] /; FreeQ[{F, a, b, c, d, e, f}, x] && IGtQ[n, 0] && GtQ[m,
0]

4969. Int[Cos[(d_.) + (e_.)*(x_)]^(n_.)*(F_)^((c_.)*((a_.) + (b_.)*(x_)))*((
f_.)*(x_))^(m_.), x_Symbol] := Module[{u = IntHide[F^(c*(a + b*x))*Cos
[d + e*x]^n, x]}, Simp[(f*x)^m u, x] - Simp[f*m Int[(f*x)^(m - 1)*
u, x], x]] /; FreeQ[{F, a, b, c, d, e, f}, x] && IGtQ[n, 0] && GtQ[m,
0]

4970. Int[(F_)^((c_.)*((a_.) + (b_.)*(x_)))*((f_.)*(x_))^(m_)*Sin[(d_.) + (e
_.)*(x_)], x_Symbol] := Simp[((f*x)^(m + 1)/(f*(m + 1)))*F^(c*(a + b*x
))*Sin[d + e*x], x] + (-Simp[e/(f*(m + 1)) Int[(f*x)^(m + 1)*F^(c*(a
+ b*x))*Cos[d + e*x], x], x] - Simp[b*c*(Log[F]/(f*(m + 1))) Int[(f
*x)^(m + 1)*F^(c*(a + b*x))*Sin[d + e*x], x], x]) /; FreeQ[{F, a, b, c
, d, e, f, m}, x] && (LtQ[m, -1] || SumSimplerQ[m, 1])

4971. Int[Cos[(d_.) + (e_.)*(x_)]*(F_)^((c_.)*((a_.) + (b_.)*(x_)))*((f_.)*(
x_))^(m_), x_Symbol] := Simp[((f*x)^(m + 1)/(f*(m + 1)))*F^(c*(a + b*x
))*Cos[d + e*x], x] + (Simp[e/(f*(m + 1)) Int[(f*x)^(m + 1)*F^(c*(a
+ b*x))*Sin[d + e*x], x], x] - Simp[b*c*(Log[F]/(f*(m + 1))) Int[(f*
x)^(m + 1)*F^(c*(a + b*x))*Cos[d + e*x], x], x]) /; FreeQ[{F, a, b, c,
d, e, f, m}, x] && (LtQ[m, -1] || SumSimplerQ[m, 1])

4972. Int[Cos[(f_.) + (g_.)*(x_)]^(n_.)*(F_)^((c_.)*((a_.) + (b_.)*(x_)))*Si
n[(d_.) + (e_.)*(x_)]^(m_.), x_Symbol] := Int[ExpandTrigReduce[F^(c*(a
+ b*x)), Sin[d + e*x]^m*Cos[f + g*x]^n, x], x] /; FreeQ[{F, a, b, c,
d, e, f, g}, x] && IGtQ[m, 0] && IGtQ[n, 0]

4973. Int[Cos[(f_.) + (g_.)*(x_)]^(n_.)*(F_)^((c_.)*((a_.) + (b_.)*(x_)))*(x
_)^(p_)*Sin[(d_.) + (e_.)*(x_)]^(m_.), x_Symbol] := Int[ExpandTrigRed
uce[x^p*F^(c*(a + b*x)), Sin[d + e*x]^m*Cos[f + g*x]^n, x], x] /; Free
Q[{F, a, b, c, d, e, f, g}, x] && IGtQ[m, 0] && IGtQ[n, 0] && IGtQ[p,
0]

4974. Int[(F_)^((c_.)*((a_.) + (b_.)*(x_)))*(G_)[(d_.) + (e_.)*(x_)]^(m_.)*(
H_)[(d_.) + (e_.)*(x_)]^(n_.), x_Symbol] := Int[ExpandTrigToExp[F^(c*(
a + b*x)), G[d + e*x]^m*H[d + e*x]^n, x], x] /; FreeQ[{F, a, b, c, d,

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- e}, x] && IGtQ[m, 0] && IGtQ[n, 0] && TrigQ[G] && TrigQ[H]
4975. $\text{Int}[(F_)^{(u_)} \cdot \text{Sin}[v_]^{(n_)}], x_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigToExp}[F^u, \text{Sin}[v]^n, x], x] /; \text{FreeQ}[F, x] \&\& (\text{LinearQ}[u, x] \parallel \text{PolyQ}[u, x, 2]) \&\& (\text{LinearQ}[v, x] \parallel \text{PolyQ}[v, x, 2]) \&\& \text{IGtQ}[n, 0]$
4976. $\text{Int}[\text{Cos}[v_]^{(n_)} \cdot (F_)^{(u_)}], x_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigToExp}[F^u, \text{Cos}[v]^n, x], x] /; \text{FreeQ}[F, x] \&\& (\text{LinearQ}[u, x] \parallel \text{PolyQ}[u, x, 2]) \&\& (\text{LinearQ}[v, x] \parallel \text{PolyQ}[v, x, 2]) \&\& \text{IGtQ}[n, 0]$
4977. $\text{Int}[\text{Cos}[v_]^{(n_)} \cdot (F_)^{(u_)} \cdot \text{Sin}[v_]^{(m_)}], x_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigToExp}[F^u, \text{Sin}[v]^m \cdot \text{Cos}[v]^n, x], x] /; \text{FreeQ}[F, x] \&\& (\text{LinearQ}[u, x] \parallel \text{PolyQ}[u, x, 2]) \&\& (\text{LinearQ}[v, x] \parallel \text{PolyQ}[v, x, 2]) \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
4978. $\text{Int}[\text{Sin}[(a_) + \text{Log}[(c_) \cdot (x_)^{(n_)}] \cdot (b_) \cdot (d_)], x_ \text{Symbol}] \rightarrow \text{Simp}[x \cdot (\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (b^2 \cdot d^2 \cdot n^2 + 1), x] - \text{Simp}[b \cdot d \cdot n \cdot x \cdot (\text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (b^2 \cdot d^2 \cdot n^2 + 1), x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& \text{NeQ}[b^2 \cdot d^2 \cdot n^2 + 1, 0]$
4979. $\text{Int}[\text{Cos}[(a_) + \text{Log}[(c_) \cdot (x_)^{(n_)}] \cdot (b_) \cdot (d_)], x_ \text{Symbol}] \rightarrow \text{Simp}[x \cdot (\text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (b^2 \cdot d^2 \cdot n^2 + 1), x] + \text{Simp}[b \cdot d \cdot n \cdot x \cdot (\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (b^2 \cdot d^2 \cdot n^2 + 1), x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& \text{NeQ}[b^2 \cdot d^2 \cdot n^2 + 1, 0]$
4980. $\text{Int}[\text{Sin}[(a_) + \text{Log}[(c_) \cdot (x_)^{(n_)}] \cdot (b_) \cdot (d_)]^{(p_)}], x_ \text{Symbol}] \rightarrow \text{Simp}[x \cdot (\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])])^p / (b^2 \cdot d^2 \cdot n^2 \cdot p^2 + 1), x] + (-\text{Simp}[b \cdot d \cdot n \cdot p \cdot x \cdot \text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])] \cdot (\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])])^{(p-1)} / (b^2 \cdot d^2 \cdot n^2 \cdot p^2 + 1), x] + \text{Simp}[b^2 \cdot d^2 \cdot n^2 \cdot p \cdot ((p-1) / (b^2 \cdot d^2 \cdot n^2 \cdot p^2 + 1)) \cdot \text{Int}[\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]^{(p-2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{NeQ}[b^2 \cdot d^2 \cdot n^2 \cdot p^2 + 1, 0]$
4981. $\text{Int}[\text{Cos}[(a_) + \text{Log}[(c_) \cdot (x_)^{(n_)}] \cdot (b_) \cdot (d_)]^{(p_)}], x_ \text{Symbol}] \rightarrow \text{Simp}[x \cdot (\text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])])^p / (b^2 \cdot d^2 \cdot n^2 \cdot p^2 + 1), x] + (\text{Simp}[b \cdot d \cdot n \cdot p \cdot x \cdot \text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])] \cdot (\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])])^{(p-1)} / (b^2 \cdot d^2 \cdot n^2 \cdot p^2 + 1), x] + \text{Simp}[b^2 \cdot d^2 \cdot n^2 \cdot p \cdot ((p-1) / (b^2 \cdot d^2 \cdot n^2 \cdot p^2 + 1)) \cdot \text{Int}[\text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]^{(p-2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{NeQ}[b^2 \cdot d^2 \cdot n^2 \cdot p^2 + 1, 0]$

- $n^2 p^2 + 1$) Int[Cos[d*(a + b*Log[c*x^n])]^(p - 2), x], x) /; FreeQ[{a, b, c, d, n}, x] && IGtQ[p, 1] && NeQ[b^2*d^2*n^2*p^2 + 1, 0]
4982. Int[Sin[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Symbol] := Simp[1/(2^p * b^p * d^p * p^p) Int[ExpandIntegrand[(E^(a*b*d^2*p)/x^p^(-1) - x^(1/p)/E^(a*b*d^2*p))^p, x], x], x] /; FreeQ[{a, b, d}, x] && IGtQ[p, 0] && EqQ[b^2*d^2*p^2 + 1, 0]
4983. Int[Cos[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Symbol] := Simp[1/2^p Int[ExpandIntegrand[(E^(a*b*d^2*p)/x^p^(-1) + x^(1/p)/E^(a*b*d^2*p))^p, x], x], x] /; FreeQ[{a, b, d}, x] && IGtQ[p, 0] && EqQ[b^2*d^2*p^2 + 1, 0]
4984. Int[Sin[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Symbol] := Simp[Sin[d*(a + b*Log[x])]^p*(x^(I*b*d*p)/(1 - E^(2*I*a*d)*x^(2*I*b*d))^p) Int[(1 - E^(2*I*a*d)*x^(2*I*b*d))^p/x^(I*b*d*p), x], x] /; FreeQ[{a, b, d, p}, x] && !IntegerQ[p]
4985. Int[Cos[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Symbol] := Simp[Cos[d*(a + b*Log[x])]^p*(x^(I*b*d*p)/(1 + E^(2*I*a*d)*x^(2*I*b*d))^p) Int[(1 + E^(2*I*a*d)*x^(2*I*b*d))^p/x^(I*b*d*p), x], x] /; FreeQ[{a, b, d, p}, x] && !IntegerQ[p]
4986. Int[Sin[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_.), x_Symbol] := Simp[x/(n*(c*x^n)^(1/n)) Subst[Int[x^(1/n - 1)*Sin[d*(a + b*Log[x])]]^p, x], x, c*x^n], x] /; FreeQ[{a, b, c, d, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])
4987. Int[Cos[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_.), x_Symbol] := Simp[x/(n*(c*x^n)^(1/n)) Subst[Int[x^(1/n - 1)*Cos[d*(a + b*Log[x])]]^p, x], x, c*x^n], x] /; FreeQ[{a, b, c, d, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])
4988. Int[((e_.)*(x_))^(m_.)*Sin[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] := Simp[(m + 1)*(e*x)^(m + 1)*(Sin[d*(a + b*Log[c*x^n])])/(b^2*d^2*e*n^2 + e*(m + 1)^2), x] - Simp[b*d*n*(e*x)^(m + 1)*(Cos[d*(

$a + b \cdot \text{Log}[c \cdot x^n]] / (b^2 \cdot d^2 \cdot e^{n^2} + e^{(m+1)^2}), x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{NeQ}[b^2 \cdot d^2 \cdot n^2 + (m+1)^2, 0]$

4989. $\text{Int}[\text{Cos}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}] \cdot (b_.)(d_.)] \cdot ((e_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(m+1) \cdot (e \cdot x)^{(m+1)} \cdot (\text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (b^2 \cdot d^2 \cdot e^{n^2} + e^{(m+1)^2}), x] + \text{Simp}[b \cdot d \cdot n \cdot (e \cdot x)^{(m+1)} \cdot (\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (b^2 \cdot d^2 \cdot e^{n^2} + e^{(m+1)^2}), x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{NeQ}[b^2 \cdot d^2 \cdot n^2 + (m+1)^2, 0]$

4990. $\text{Int}[(e_.)(x_))^{(m_.)} \cdot \text{Sin}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}] \cdot (b_.)(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(m+1) \cdot (e \cdot x)^{(m+1)} \cdot (\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]^p / (b^2 \cdot d^2 \cdot e^{n^2 \cdot p^2} + e^{(m+1)^2}), x] + (-\text{Simp}[b \cdot d \cdot n \cdot p \cdot (e \cdot x)^{(m+1)} \cdot \text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])] \cdot (\text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]^{(p-1)} / (b^2 \cdot d^2 \cdot e^{n^2 \cdot p^2} + e^{(m+1)^2}), x] + \text{Simp}[b^2 \cdot d^2 \cdot n^2 \cdot p \cdot ((p-1) / (b^2 \cdot d^2 \cdot n^2 \cdot p^2 + (m+1)^2)) \text{Int}[(e \cdot x)^m \cdot \text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]^{(p-2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{NeQ}[b^2 \cdot d^2 \cdot n^2 \cdot p^2 + (m+1)^2, 0]$

4991. $\text{Int}[\text{Cos}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}] \cdot (b_.)(d_.)]^{(p_.)} \cdot ((e_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(m+1) \cdot (e \cdot x)^{(m+1)} \cdot (\text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]^p / (b^2 \cdot d^2 \cdot e^{n^2 \cdot p^2} + e^{(m+1)^2}), x] + (\text{Simp}[b \cdot d \cdot n \cdot p \cdot (e \cdot x)^{(m+1)} \cdot \text{Sin}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])] \cdot (\text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]^{(p-1)} / (b^2 \cdot d^2 \cdot e^{n^2 \cdot p^2} + e^{(m+1)^2}), x] + \text{Simp}[b^2 \cdot d^2 \cdot n^2 \cdot p \cdot ((p-1) / (b^2 \cdot d^2 \cdot n^2 \cdot p^2 + (m+1)^2)) \text{Int}[(e \cdot x)^m \cdot \text{Cos}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]^{(p-2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{NeQ}[b^2 \cdot d^2 \cdot n^2 \cdot p^2 + (m+1)^2, 0]$

4992. $\text{Int}[(e_.)(x_))^{(m_.)} \cdot \text{Sin}[(a_.) + \text{Log}[x_] \cdot (b_.)(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(m+1)^p / (2^p \cdot b^p \cdot d^p \cdot p^p) \text{Int}[\text{ExpandIntegrand}[(e \cdot x)^m \cdot (E^{(a \cdot b \cdot d^2 \cdot (p/(m+1)))}) / x^{((m+1)/p)} - x^{((m+1)/p)} / E^{(a \cdot b \cdot d^2 \cdot (p/(m+1)))})]^{(p)}, x], x] /; \text{FreeQ}[\{a, b, d, e, m\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{EqQ}[b^2 \cdot d^2 \cdot p^2 + (m+1)^2, 0]$

4993. $\text{Int}[\text{Cos}[(a_.) + \text{Log}[x_] \cdot (b_.)(d_.)]^{(p_.)} \cdot ((e_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[1/2^p \text{Int}[\text{ExpandIntegrand}[(e \cdot x)^m \cdot (E^{(a \cdot b \cdot d^2 \cdot (p/(m+1)))}) / x^{((m+1)/p)} + x^{((m+1)/p)} / E^{(a \cdot b \cdot d^2 \cdot (p/(m+1)))})]^{(p)}, x], x] /; \text{FreeQ}[\{a, b, d, e, m\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{EqQ}[b^2 \cdot d^2 \cdot p^2 + (m$

+ 1)^2, 0]

4994. $\text{Int}[(e_{.})*(x_{.})^{(m_{.})}*\text{Sin}[(a_{.}) + \text{Log}[x_{.}](b_{.})]*(d_{.})]^{(p_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Sin}[d*(a + b*\text{Log}[x])]^p*(x^{(I*b*d*p)})/(1 - E^{(2*I*a*d)*x^{(2*I*b*d)}})^p] \text{Int}[(e*x)^m*((1 - E^{(2*I*a*d)*x^{(2*I*b*d)}})^p/x^{(I*b*d*p)}), x], x] /; \text{FreeQ}\{a, b, d, e, m, p\}, x\} \&\& \text{!IntegerQ}[p]$
4995. $\text{Int}[\text{Cos}[(a_{.}) + \text{Log}[x_{.}](b_{.})]*(d_{.})]^{(p_{.})}*(e_{.})*(x_{.})^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Cos}[d*(a + b*\text{Log}[x])]^p*(x^{(I*b*d*p)})/(1 + E^{(2*I*a*d)*x^{(2*I*b*d)}})^p] \text{Int}[(e*x)^m*((1 + E^{(2*I*a*d)*x^{(2*I*b*d)}})^p/x^{(I*b*d*p)}), x], x] /; \text{FreeQ}\{a, b, d, e, m, p\}, x\} \&\& \text{!IntegerQ}[p]$
4996. $\text{Int}[(e_{.})*(x_{.})^{(m_{.})}*\text{Sin}[(a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}](b_{.})]*(d_{.})]^{(p_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e*x)^{(m+1)}/(e^n*(c*x^n)^{(m+1)/n}) \text{Subst}[\text{Int}[x^{(m+1)/n-1}*\text{Sin}[d*(a + b*\text{Log}[x])]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x\} \&\& (\text{NeQ}[c, 1] \|\ \text{NeQ}[n, 1])$
4997. $\text{Int}[\text{Cos}[(a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}](b_{.})]*(d_{.})]^{(p_{.})}*(e_{.})*(x_{.})^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e*x)^{(m+1)}/(e^n*(c*x^n)^{(m+1)/n}) \text{Subst}[\text{Int}[x^{(m+1)/n-1}*\text{Cos}[d*(a + b*\text{Log}[x])]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x\} \&\& (\text{NeQ}[c, 1] \|\ \text{NeQ}[n, 1])$
4998. $\text{Int}[(((e_{.}) + \text{Log}[(g_{.})*(x_{.})^{(m_{.})}](f_{.})*(h_{.}))^{(q_{.})}*\text{Sin}[(a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}](b_{.})]*(d_{.})], x_{\text{Symbol}}] \rightarrow \text{Simp}[(I*(1/((c*x^n)^{(I*b*d)}*(2/x^{(I*b*d*n)})))/E^{(I*a*d)} \text{Int}[(h*(e + f*\text{Log}[g*x^m]))^q/x^{(I*b*d*n)}], x], x] - \text{Simp}[I*E^{(I*a*d)}*((c*x^n)^{(I*b*d)})/(2*x^{(I*b*d*n)})] \text{Int}[x^{(I*b*d*n)}*(h*(e + f*\text{Log}[g*x^m]))^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m, n, q\}, x]$
4999. $\text{Int}[\text{Cos}[(a_{.}) + \text{Log}[(c_{.})*(x_{.})^{(n_{.})}](b_{.})]*(d_{.})]*(((e_{.}) + \text{Log}[(g_{.})*(x_{.})^{(m_{.})}](f_{.})*(h_{.}))^{(q_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/((c*x^n)^{(I*b*d)}*(2/x^{(I*b*d*n)})))/E^{(I*a*d)} \text{Int}[(h*(e + f*\text{Log}[g*x^m]))^q/x^{(I*b*d*n)}], x], x] + \text{Simp}[E^{(I*a*d)}*((c*x^n)^{(I*b*d)})/(2*x^{(I*b*d*n)})] \text{Int}[x^{(I*b*d*n)}*(h*(e + f*\text{Log}[g*x^m]))^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m, n, q\}, x]$

5000. `Int[(((e_.) + Log[(g_.)*(x_)^(m_.)]*(f_.))*(h_.))^(q_.)*((i_.)*(x_)^(r_.)*Sin[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] := Simp[(I*(i*x)^r*(1/((c*x^n)^(I*b*d)*(2*x^(r - I*b*d*n)))))/E^(I*a*d) Int[x^(r - I*b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] - Simp[I*E^(I*a*d)*(i*x)^r*((c*x^n)^(I*b*d)/(2*x^(r + I*b*d*n))) Int[x^(r + I*b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, m, n, q, r}, x]`
5001. `Int[Cos[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.))*(((e_.) + Log[(g_.)*(x_)^(m_.)]*(f_.))*(h_.))^(q_.)*((i_.)*(x_)^(r_.), x_Symbol] := Simp[((i*x)^r*(1/((c*x^n)^(I*b*d)*(2*x^(r - I*b*d*n)))))/E^(I*a*d) Int[x^(r - I*b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] + Simp[E^(I*a*d)*(i*x)^r*((c*x^n)^(I*b*d)/(2*x^(r + I*b*d*n))) Int[x^(r + I*b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, m, n, q, r}, x]`
5002. `Int[Tan[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Symbol] := Int[((I - I*E^(2*I*a*d)*x^(2*I*b*d))/(1 + E^(2*I*a*d)*x^(2*I*b*d)))^p, x] /; FreeQ[{a, b, d, p}, x]`
5003. `Int[Cot[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Symbol] := Int[((-I - I*E^(2*I*a*d)*x^(2*I*b*d))/(1 - E^(2*I*a*d)*x^(2*I*b*d)))^p, x] /; FreeQ[{a, b, d, p}, x]`
5004. `Int[Tan[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_.), x_Symbol] := Simp[x/(n*(c*x^n)^(1/n)) Subst[Int[x^(1/n - 1)*Tan[d*(a + b*Log[x])]]^p, x], x, c*x^n], x] /; FreeQ[{a, b, c, d, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])`
5005. `Int[Cot[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_.), x_Symbol] := Simp[x/(n*(c*x^n)^(1/n)) Subst[Int[x^(1/n - 1)*Cot[d*(a + b*Log[x])]]^p, x], x, c*x^n], x] /; FreeQ[{a, b, c, d, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])`
5006. `Int[((e_.)*(x_)^(m_.))*Tan[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Symbol] := Int[(e*x)^m*((I - I*E^(2*I*a*d)*x^(2*I*b*d))/(1 + E^(2*I*a*d)*`

- $x^{(2I*b*d)})^p, x] /; \text{FreeQ}\{a, b, d, e, m, p\}, x]$
5007. $\text{Int}[\text{Cot}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}*((e_.)*(x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(e*x)^m*((-I - I*E^{(2I*a*d)})*x^{(2I*b*d)})/(1 - E^{(2I*a*d)}*x^{(2I*b*d)})^p, x] /; \text{FreeQ}\{a, b, d, e, m, p\}, x]$
5008. $\text{Int}[(e_.)*(x_.))^{(m_.)}*\text{Tan}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(e*x)^{(m+1)}/(e*n*(c*x^n)^{((m+1)/n)}) \text{Subst}[\text{Int}[x^{((m+1)/n-1)}*\text{Tan}[d*(a+b*\text{Log}[x])]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& (\text{NeQ}[c, 1] \parallel \text{NeQ}[n, 1])$
5009. $\text{Int}[\text{Cot}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}*((e_.)*(x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e*x)^{(m+1)}/(e*n*(c*x^n)^{((m+1)/n)}) \text{Subst}[\text{Int}[x^{((m+1)/n-1)}*\text{Cot}[d*(a+b*\text{Log}[x])]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& (\text{NeQ}[c, 1] \parallel \text{NeQ}[n, 1])$
5010. $\text{Int}[\text{Sec}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[2^p*E^{(I*a*d*p)} \text{Int}[x^{(I*b*d*p)}/(1 + E^{(2I*a*d)}*x^{(2I*b*d)})^p, x], x] /; \text{FreeQ}\{a, b, d\}, x] \&\& \text{IntegerQ}[p]$
5011. $\text{Int}[\text{Csc}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-2^I)^p*E^{(I*a*d*p)} \text{Int}[x^{(I*b*d*p)}/(1 - E^{(2I*a*d)}*x^{(2I*b*d)})^p, x], x] /; \text{FreeQ}\{a, b, d\}, x] \&\& \text{IntegerQ}[p]$
5012. $\text{Int}[\text{Sec}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sec}[d*(a+b*\text{Log}[x])]^p*((1 + E^{(2I*a*d)}*x^{(2I*b*d)})^p/x^{(I*b*d*p)}) \text{Int}[x^{(I*b*d*p)}/(1 + E^{(2I*a*d)}*x^{(2I*b*d)})^p, x], x] /; \text{FreeQ}\{a, b, d, p\}, x] \&\& !\text{IntegerQ}[p]$
5013. $\text{Int}[\text{Csc}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Csc}[d*(a+b*\text{Log}[x])]^p*((1 - E^{(2I*a*d)}*x^{(2I*b*d)})^p/x^{(I*b*d*p)}) \text{Int}[x^{(I*b*d*p)}/(1 - E^{(2I*a*d)}*x^{(2I*b*d)})^p, x], x] /; \text{FreeQ}\{a, b, d, p\}, x] \&\& !\text{IntegerQ}[p]$
5014. $\text{Int}[\text{Sec}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[x/(n*(c*x^n)^{(1/n)}) \text{Subst}[\text{Int}[x^{(1/n-1)}*\text{Sec}[d*(a+b*\text{Log}[x$

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]])^p, x], x, c*x^n], x] /; FreeQ[{a, b, c, d, n, p}, x] && (NeQ[c, 1]
|| NeQ[n, 1])

5015. Int[Csc[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_.), x_Symbol]
:> Simp[x/(n*(c*x^n)^(1/n)) Subst[Int[x^(1/n - 1)*Csc[d*(a + b*Log[x
]])^p, x], x, c*x^n], x] /; FreeQ[{a, b, c, d, n, p}, x] && (NeQ[c, 1]
|| NeQ[n, 1])

5016. Int[((e_.)*(x_))^(m_.)*Sec[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Sym
bol] :> Simp[2^p*E^(I*a*d*p) Int[(e*x)^m*(x^(I*b*d*p))/(1 + E^(2*I*a*
d)*x^(2*I*b*d))^p], x], x] /; FreeQ[{a, b, d, e, m}, x] && IntegerQ[p]

5017. Int[Csc[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.)*((e_.)*(x_))^(m_.), x_Sym
bol] :> Simp[(-2*I)^p*E^(I*a*d*p) Int[(e*x)^m*(x^(I*b*d*p))/(1 - E^(2
*I*a*d)*x^(2*I*b*d))^p], x], x] /; FreeQ[{a, b, d, e, m}, x] && Intege
rQ[p]

5018. Int[((e_.)*(x_))^(m_.)*Sec[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.), x_Sym
bol] :> Simp[Sec[d*(a + b*Log[x])]^p*((1 + E^(2*I*a*d)*x^(2*I*b*d))^p/
x^(I*b*d*p)) Int[(e*x)^m*(x^(I*b*d*p))/(1 + E^(2*I*a*d)*x^(2*I*b*d))^
p], x], x] /; FreeQ[{a, b, d, e, m, p}, x] && !IntegerQ[p]

5019. Int[Csc[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_.)*((e_.)*(x_))^(m_.), x_Sym
bol] :> Simp[Csc[d*(a + b*Log[x])]^p*((1 - E^(2*I*a*d)*x^(2*I*b*d))^p/
x^(I*b*d*p)) Int[(e*x)^m*(x^(I*b*d*p))/(1 - E^(2*I*a*d)*x^(2*I*b*d))^
p], x], x] /; FreeQ[{a, b, d, e, m, p}, x] && !IntegerQ[p]

5020. Int[((e_.)*(x_))^(m_.)*Sec[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)
]^(p_.), x_Symbol] :> Simp[(e*x)^(m + 1)/(e*n*(c*x^n)^(m + 1)/n) S
ubst[Int[x^(m + 1)/n - 1)*Sec[d*(a + b*Log[x])]^p, x], x, c*x^n], x]
/; FreeQ[{a, b, c, d, e, m, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])

5021. Int[Csc[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_.)*((e_.)*(x_)
)^(m_.), x_Symbol] :> Simp[(e*x)^(m + 1)/(e*n*(c*x^n)^(m + 1)/n) S
ubst[Int[x^(m + 1)/n - 1)*Csc[d*(a + b*Log[x])]^p, x], x, c*x^n], x]
/; FreeQ[{a, b, c, d, e, m, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])

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5022.  $\text{Int}[\text{Log}[(b\_)(x\_)]*\text{Sin}[\text{Log}[(b\_)(x\_)]*(a\_)(x\_)], x\_Symbol] \rightarrow \text{Simp}[-\text{Cos}[a*x*\text{Log}[b*x]]/a, x] - \text{Int}[\text{Sin}[a*x*\text{Log}[b*x]], x] /; \text{FreeQ}\{a, b, x\}$
5023.  $\text{Int}[\text{Cos}[\text{Log}[(b\_)(x\_)]*(a\_)(x\_)]*\text{Log}[(b\_)(x\_)], x\_Symbol] \rightarrow \text{Simp}[\text{Sin}[a*x*\text{Log}[b*x]]/a, x] - \text{Int}[\text{Cos}[a*x*\text{Log}[b*x]], x] /; \text{FreeQ}\{a, b, x\}$
5024.  $\text{Int}[\text{Log}[(b\_)(x\_)]*(x\_)^{(m\_)}*\text{Sin}[\text{Log}[(b\_)(x\_)]*(a\_)(x\_)]^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[-\text{Cos}[a*x^n*\text{Log}[b*x]]/(a*n), x] - \text{Simp}[1/n \text{ Int}[x^m*\text{Sin}[a*x^n*\text{Log}[b*x]], x], x] /; \text{FreeQ}\{a, b, m, n, x\} \&\& \text{EqQ}[m, n - 1]$
5025.  $\text{Int}[\text{Cos}[\text{Log}[(b\_)(x\_)]*(a\_)(x\_)]^{(n\_)}*\text{Log}[(b\_)(x\_)]*(x\_)^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[\text{Sin}[a*x^n*\text{Log}[b*x]]/(a*n), x] - \text{Simp}[1/n \text{ Int}[x^m*\text{Cos}[a*x^n*\text{Log}[b*x]], x], x] /; \text{FreeQ}\{a, b, m, n, x\} \&\& \text{EqQ}[m, n - 1]$
5026.  $\text{Int}[(((e\_)+(f\_)(x\_))^{(m\_)}*\text{Sin}[(c\_)+(d\_)(x\_)]^{(n\_)})/((a\_)+(b\_)*\text{Sin}[(c\_)+(d\_)(x\_)]), x\_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[(e+f*x)^m*\text{Sin}[c+d*x]^{(n-1)}, x], x] - \text{Simp}[a/b \text{ Int}[(e+f*x)^m*(\text{Sin}[c+d*x]^{(n-1)})/(a+b*\text{Sin}[c+d*x])], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, x\} \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
5027.  $\text{Int}[(\text{Cos}[(c\_)+(d\_)(x\_)]^{(n\_)}*((e\_)+(f\_)(x\_))^{(m\_)})/((\text{Cos}[(c\_)+(d\_)(x\_)]*(b\_)+(a\_)), x\_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[(e+f*x)^m*\text{Cos}[c+d*x]^{(n-1)}, x], x] - \text{Simp}[a/b \text{ Int}[(e+f*x)^m*(\text{Cos}[c+d*x]^{(n-1)})/(a+b*\text{Cos}[c+d*x])], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, x\} \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
5028.  $\text{Int}[(\text{Cos}[(c\_)+(d\_)(x\_)]*((e\_)+(f\_)(x\_))^{(m\_)})/((a\_)+(b\_)*\text{Sin}[(c\_)+(d\_)(x\_)]), x\_Symbol] \rightarrow \text{Simp}[(-I)*(e+f*x)^{(m+1)}/(b*f*(m+1)), x] + \text{Simp}[2 \text{ Int}[(e+f*x)^m*(E^{(I*(c+d*x))})/(a-I*b*E^{(I*(c+d*x))})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, x\} \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$

5029.  $\text{Int}[(((e_{.}) + (f_{.})*(x_{.}))^{(m_{.})}*\text{Sin}[(c_{.}) + (d_{.})*(x_{.})]) / (\text{Cos}[(c_{.}) + (d_{.})*(x_{.})]*(b_{.}) + (a_{.})) , x_{\text{Symbol}}] \rightarrow \text{Simp}[I*((e + f*x)^{(m + 1)} / (b*f*(m + 1))) , x] - \text{Simp}[2*I \text{ Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (a + b*E^{(I*(c + d*x))})] , x] / ; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$
5030.  $\text{Int}[(\text{Cos}[(c_{.}) + (d_{.})*(x_{.})])*((e_{.}) + (f_{.})*(x_{.}))^{(m_{.})} / ((a_{.}) + (b_{.})*\text{Sin}[(c_{.}) + (d_{.})*(x_{.})]) , x_{\text{Symbol}}] \rightarrow \text{Simp}[(-I)*((e + f*x)^{(m + 1)} / (b*f*(m + 1))) , x] + (\text{Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (a - \text{Rt}[a^2 - b^2, 2] - I*b*E^{(I*(c + d*x))})] , x] + \text{Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (a + \text{Rt}[a^2 - b^2, 2] - I*b*E^{(I*(c + d*x))})] , x] / ; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{PosQ}[a^2 - b^2]$
5031.  $\text{Int}[(((e_{.}) + (f_{.})*(x_{.}))^{(m_{.})}*\text{Sin}[(c_{.}) + (d_{.})*(x_{.})]) / (\text{Cos}[(c_{.}) + (d_{.})*(x_{.})]*(b_{.}) + (a_{.})) , x_{\text{Symbol}}] \rightarrow \text{Simp}[I*((e + f*x)^{(m + 1)} / (b*f*(m + 1))) , x] + (-\text{Simp}[I \text{ Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (a - \text{Rt}[a^2 - b^2, 2] + b*E^{(I*(c + d*x))})] , x] , x] - \text{Simp}[I \text{ Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (a + \text{Rt}[a^2 - b^2, 2] + b*E^{(I*(c + d*x))})] , x] , x] / ; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{PosQ}[a^2 - b^2]$
5032.  $\text{Int}[(\text{Cos}[(c_{.}) + (d_{.})*(x_{.})])*((e_{.}) + (f_{.})*(x_{.}))^{(m_{.})} / ((a_{.}) + (b_{.})*\text{Sin}[(c_{.}) + (d_{.})*(x_{.})]) , x_{\text{Symbol}}] \rightarrow \text{Simp}[(-I)*((e + f*x)^{(m + 1)} / (b*f*(m + 1))) , x] + (\text{Simp}[I \text{ Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (I*a - \text{Rt}[-a^2 + b^2, 2] + b*E^{(I*(c + d*x))})] , x] , x] + \text{Simp}[I \text{ Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (I*a + \text{Rt}[-a^2 + b^2, 2] + b*E^{(I*(c + d*x))})] , x] , x] / ; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NegQ}[a^2 - b^2]$
5033.  $\text{Int}[(((e_{.}) + (f_{.})*(x_{.}))^{(m_{.})}*\text{Sin}[(c_{.}) + (d_{.})*(x_{.})]) / (\text{Cos}[(c_{.}) + (d_{.})*(x_{.})]*(b_{.}) + (a_{.})) , x_{\text{Symbol}}] \rightarrow \text{Simp}[I*((e + f*x)^{(m + 1)} / (b*f*(m + 1))) , x] + (\text{Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (I*a - \text{Rt}[-a^2 + b^2, 2] + I*b*E^{(I*(c + d*x))})] , x] + \text{Int}[(e + f*x)^m*(E^{(I*(c + d*x))}) / (I*a + \text{Rt}[-a^2 + b^2, 2] + I*b*E^{(I*(c + d*x))})] , x] / ; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NegQ}[a^2 - b^2]$
5034.  $\text{Int}[(\text{Cos}[(c_{.}) + (d_{.})*(x_{.})])^{(n_{.})}*((e_{.}) + (f_{.})*(x_{.}))^{(m_{.})} / ((a_{.}) + (b_{.})*\text{Sin}[(c_{.}) + (d_{.})*(x_{.})]) , x_{\text{Symbol}}] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m$



- $m \cos[c + dx]^{(n-2)}, x, x - \text{Simp}[1/b \int (e + fx)^m \cos[c + dx]^{(n-2)} \sin[c + dx], x], x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f, m\}, x \&\& \text{IGtQ}[n, 1] \&\& \text{EqQ}[a^2 - b^2, 0]$
5035.  $\text{Int}[(((e_.) + (f_.)(x_.))^{(m_.)} \sin[(c_.) + (d_.)(x_.)]^{(n_.)}) / (\cos[(c_.) + (d_.)(x_.)] (b_.) + (a_.)), x\_Symbol] :> \text{Simp}[1/a \int (e + fx)^m \sin[c + dx]^{(n-2)}, x], x] - \text{Simp}[1/b \int (e + fx)^m \cos[c + dx]^{(n-2)} \cos[c + dx], x], x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f, m\}, x \&\& \text{IGtQ}[n, 1] \&\& \text{EqQ}[a^2 - b^2, 0]$
5036.  $\text{Int}[(\cos[(c_.) + (d_.)(x_.)]^{(n_.)} ((e_.) + (f_.)(x_.))^{(m_.)}) / ((a_.) + (b_.) \sin[(c_.) + (d_.)(x_.)])], x\_Symbol] :> \text{Simp}[a/b^2 \int (e + fx)^m \cos[c + dx]^{(n-2)}, x], x] + (-\text{Simp}[1/b \int (e + fx)^m \cos[c + dx]^{(n-2)} \sin[c + dx], x], x] - \text{Simp}[(a^2 - b^2)/b^2 \int (e + fx)^m (\cos[c + dx]^{(n-2)} / (a + b \sin[c + dx])), x], x]) /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f\}, x \&\& \text{IGtQ}[n, 1] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[m, 0]$
5037.  $\text{Int}[(((e_.) + (f_.)(x_.))^{(m_.)} \sin[(c_.) + (d_.)(x_.)]^{(n_.)}) / (\cos[(c_.) + (d_.)(x_.)] (b_.) + (a_.)), x\_Symbol] :> \text{Simp}[a/b^2 \int (e + fx)^m \sin[c + dx]^{(n-2)}, x], x] + (-\text{Simp}[1/b \int (e + fx)^m \sin[c + dx]^{(n-2)} \cos[c + dx], x], x] - \text{Simp}[(a^2 - b^2)/b^2 \int (e + fx)^m (\sin[c + dx]^{(n-2)} / (a + b \cos[c + dx])), x], x]) /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f\}, x \&\& \text{IGtQ}[n, 1] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[m, 0]$
5038.  $\text{Int}[(((e_.) + (f_.)(x_.))^{(m_.)} \tan[(c_.) + (d_.)(x_.)]^{(n_.)}) / ((a_.) + (b_.) \sin[(c_.) + (d_.)(x_.)]), x\_Symbol] :> \text{Simp}[1/b \int (e + fx)^m \sec[c + dx] \tan[c + dx]^{(n-1)}, x], x] - \text{Simp}[a/b \int (e + fx)^m \sec[c + dx] (\tan[c + dx]^{(n-1)} / (a + b \sin[c + dx])), x], x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f\}, x \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
5039.  $\text{Int}[(\cot[(c_.) + (d_.)(x_.)]^{(n_.)} ((e_.) + (f_.)(x_.))^{(m_.)}) / (\cos[(c_.) + (d_.)(x_.)] (b_.) + (a_.)), x\_Symbol] :> \text{Simp}[1/b \int (e + fx)^m \csc[c + dx] \cot[c + dx]^{(n-1)}, x], x] - \text{Simp}[a/b \int (e + fx)^m \csc[c + dx] (\cot[c + dx]^{(n-1)} / (a + b \cos[c + dx])), x], x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f\}, x \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$

5040.  $\text{Int}[(\text{Cot}[(c_.) + (d_.)(x_)]^{(n_.)} * ((e_.) + (f_.)(x_))^{(m_.)}) / ((a_.) + (b_.)\text{Sin}[(c_.) + (d_.)(x_)]), x\_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m * \text{Cot}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m * \text{Cos}[c + d*x] * (\text{Cot}[c + d*x]^{(n - 1)} / (a + b * \text{Sin}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
5041.  $\text{Int}[(((e_.) + (f_.)(x_))^{(m_.)} * \text{Tan}[(c_.) + (d_.)(x_)]^{(n_.)}) / (\text{Cos}[(c_.) + (d_.)(x_)] * (b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m * \text{Tan}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m * \text{Sin}[c + d*x] * (\text{Tan}[c + d*x]^{(n - 1)} / (a + b * \text{Cos}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
5042.  $\text{Int}[(((e_.) + (f_.)(x_))^{(m_.)} * \text{Sec}[(c_.) + (d_.)(x_)]^{(n_.)}) / ((a_.) + (b_.)\text{Sin}[(c_.) + (d_.)(x_)]), x\_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m * \text{Sec}[c + d*x]^{(n + 2)}, x], x] - \text{Simp}[1/b \text{ Int}[(e + f*x)^m * \text{Sec}[c + d*x]^{(n + 1)} * \text{Tan}[c + d*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$
5043.  $\text{Int}[(\text{Csc}[(c_.) + (d_.)(x_)]^{(n_.)} * ((e_.) + (f_.)(x_))^{(m_.)}) / (\text{Cos}[(c_.) + (d_.)(x_)] * (b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m * \text{Csc}[c + d*x]^{(n + 2)}, x], x] - \text{Simp}[1/b \text{ Int}[(e + f*x)^m * \text{Csc}[c + d*x]^{(n + 1)} * \text{Cot}[c + d*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$
5044.  $\text{Int}[(((e_.) + (f_.)(x_))^{(m_.)} * \text{Sec}[(c_.) + (d_.)(x_)]^{(n_.)}) / ((a_.) + (b_.)\text{Sin}[(c_.) + (d_.)(x_)]), x\_Symbol] \rightarrow \text{Simp}[-b^2 / (a^2 - b^2) \text{ Int}[(e + f*x)^m * (\text{Sec}[c + d*x]^{(n - 2)} / (a + b * \text{Sin}[c + d*x])), x], x] + \text{Simp}[1 / (a^2 - b^2) \text{ Int}[(e + f*x)^m * \text{Sec}[c + d*x]^n * (a - b * \text{Sin}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[n, 0]$
5045.  $\text{Int}[(\text{Csc}[(c_.) + (d_.)(x_)]^{(n_.)} * ((e_.) + (f_.)(x_))^{(m_.)}) / (\text{Cos}[(c_.) + (d_.)(x_)] * (b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[-b^2 / (a^2 - b^2) \text{ Int}[(e + f*x)^m * (\text{Csc}[c + d*x]^{(n - 2)} / (a + b * \text{Cos}[c + d*x])), x], x] + \text{Simp}[1 / (a^2 - b^2) \text{ Int}[(e + f*x)^m * \text{Csc}[c + d*x]^n * (a - b * \text{Cos}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[a^2 - b^2, 0] \&\& \text{IGtQ}[n, 0]$

5046.  $\text{Int}[(\text{Csc}[(c_.) + (d_.)(x_.)]^{(n_.)}((e_.) + (f_.)(x_.))^{(m_.)})/((a_.) + (b_.)\text{Sin}[(c_.) + (d_.)(x_.)])], x\_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m \text{Csc}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m (\text{Csc}[c + d*x]^{(n - 1)/(a + b*\text{Sin}[c + d*x])}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \& \& \text{IGtQ}[m, 0] \& \& \text{IGtQ}[n, 0]$
5047.  $\text{Int}[(((e_.) + (f_.)(x_.))^{(m_.)}\text{Sec}[(c_.) + (d_.)(x_.)]^{(n_.)})/(\text{Cos}[(c_.) + (d_.)(x_.)]*(b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m \text{Sec}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m (\text{Sec}[c + d*x]^{(n - 1)/(a + b*\text{Cos}[c + d*x])}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \& \& \text{IGtQ}[m, 0] \& \& \text{IGtQ}[n, 0]$
5048.  $\text{Int}[(((e_.) + (f_.)(x_.))^{(m_.)}(F_)[(c_.) + (d_.)(x_.)]^{(n_.)})/((a_.) + (b_.)\text{Sin}[(c_.) + (d_.)(x_.)]), x\_Symbol] \rightarrow \text{Unintegrable}(((e + f*x)^m F[c + d*x]^n)/(a + b*\text{Sin}[c + d*x]), x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \& \& \text{TrigQ}[F]$
5049.  $\text{Int}[(((e_.) + (f_.)(x_.))^{(m_.)}(F_)[(c_.) + (d_.)(x_.)]^{(n_.)})/(\text{Cos}[(c_.) + (d_.)(x_.)]*(b_.) + (a_.)), x\_Symbol] \rightarrow \text{Unintegrable}(((e + f*x)^m F[c + d*x]^n)/(a + b*\text{Cos}[c + d*x]), x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x] \& \& \text{TrigQ}[F]$
5050.  $\text{Int}[(\text{Cos}[(c_.) + (d_.)(x_.)]^{(p_.)}((e_.) + (f_.)(x_.))^{(m_.)}\text{Sin}[(c_.) + (d_.)(x_.)]^{(n_.)})/((a_.) + (b_.)\text{Sin}[(c_.) + (d_.)(x_.)]), x\_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[(e + f*x)^m \text{Cos}[c + d*x]^p \text{Sin}[c + d*x]^{(n - 1)}, x], x] - \text{Simp}[a/b \text{ Int}[(e + f*x)^m \text{Cos}[c + d*x]^p (\text{Sin}[c + d*x]^{(n - 1)/(a + b*\text{Sin}[c + d*x])}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \& \& \text{IGtQ}[m, 0] \& \& \text{IGtQ}[n, 0] \& \& \text{IGtQ}[p, 0]$
5051.  $\text{Int}[(\text{Cos}[(c_.) + (d_.)(x_.)]^{(n_.)}((e_.) + (f_.)(x_.))^{(m_.)}\text{Sin}[(c_.) + (d_.)(x_.)]^{(p_.)})/(\text{Cos}[(c_.) + (d_.)(x_.)]*(b_.) + (a_.)), x\_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[(e + f*x)^m \text{Sin}[c + d*x]^p \text{Cos}[c + d*x]^{(n - 1)}, x], x] - \text{Simp}[a/b \text{ Int}[(e + f*x)^m \text{Sin}[c + d*x]^p (\text{Cos}[c + d*x]^{(n - 1)/(a + b*\text{Cos}[c + d*x])}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \& \& \text{IGtQ}[m, 0] \& \& \text{IGtQ}[n, 0] \& \& \text{IGtQ}[p, 0]$

5052.  $\text{Int}[(\text{Cos}[(c\_.) + (d\_.)*(x\_)]^{(p\_)}*((e\_.) + (f\_.)*(x\_))^{(m\_)}*\text{Tan}[(c\_.) + (d\_.)*(x\_)]^{(n\_)}]/((a\_.) + (b\_.)*\text{Sin}[(c\_.) + (d\_.)*(x\_)]), x\_]$   
 $\text{Symbo1] } \rightarrow \text{Simp}[1/b \text{ Int}[(e + f*x)^m*\text{Cos}[c + d*x]^{(p-1)}*\text{Tan}[c + d*x]^{(n-1)}, x], x] - \text{Simp}[a/b \text{ Int}[(e + f*x)^m*\text{Cos}[c + d*x]^{(p-1)}*(\text{Tan}[c + d*x]^{(n-1)}/(a + b*\text{Sin}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
5053.  $\text{Int}[(\text{Cot}[(c\_.) + (d\_.)*(x\_)]^{(n\_)}*((e\_.) + (f\_.)*(x\_))^{(m\_)}*\text{Sin}[(c\_.) + (d\_.)*(x\_)]^{(p\_)}]/(\text{Cos}[(c\_.) + (d\_.)*(x\_)]*(b\_.) + (a\_)), x\_]$   
 $\text{Symbo1] } \rightarrow \text{Simp}[1/b \text{ Int}[(e + f*x)^m*\text{Sin}[c + d*x]^{(p-1)}*\text{Cot}[c + d*x]^{(n-1)}, x], x] - \text{Simp}[a/b \text{ Int}[(e + f*x)^m*\text{Sin}[c + d*x]^{(p-1)}*(\text{Cot}[c + d*x]^{(n-1)}/(a + b*\text{Cos}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
5054.  $\text{Int}[(\text{Cos}[(c\_.) + (d\_.)*(x\_)]^{(p\_)}*\text{Cot}[(c\_.) + (d\_.)*(x\_)]^{(n\_)}*((e\_.) + (f\_.)*(x\_))^{(m\_)}]/((a\_.) + (b\_.)*\text{Sin}[(c\_.) + (d\_.)*(x\_)]), x\_]$   
 $\text{Symbo1] } \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m*\text{Cos}[c + d*x]^p*\text{Cot}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m*\text{Cos}[c + d*x]^{(p+1)}*(\text{Cot}[c + d*x]^{(n-1)}/(a + b*\text{Sin}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
5055.  $\text{Int}[(\text{Cot}[(c\_.) + (d\_.)*(x\_)]^{(p\_)}*((e\_.) + (f\_.)*(x\_))^{(m\_)}*\text{Sin}[(c\_.) + (d\_.)*(x\_)]^{(n\_)}]/(\text{Cos}[(c\_.) + (d\_.)*(x\_)]*(b\_.) + (a\_)), x\_]$   
 $\text{Symbo1] } \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m*\text{Sin}[c + d*x]^p*\text{Tan}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m*\text{Sin}[c + d*x]^{(p+1)}*(\text{Tan}[c + d*x]^{(n-1)}/(a + b*\text{Cos}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
5056.  $\text{Int}[(\text{Cos}[(c\_.) + (d\_.)*(x\_)]^{(p\_)}*\text{Csc}[(c\_.) + (d\_.)*(x\_)]^{(n\_)}*((e\_.) + (f\_.)*(x\_))^{(m\_)}]/((a\_.) + (b\_.)*\text{Sin}[(c\_.) + (d\_.)*(x\_)]), x\_]$   
 $\text{Symbo1] } \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m*\text{Cos}[c + d*x]^p*\text{Csc}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m*\text{Cos}[c + d*x]^p*(\text{Csc}[c + d*x]^{(n-1)}/(a + b*\text{Sin}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
5057.  $\text{Int}[(\text{Cot}[(c\_.) + (d\_.)*(x\_)]^{(p\_)}*((e\_.) + (f\_.)*(x\_))^{(m\_)}*\text{Sec}[(c\_.) + (d\_.)*(x\_)]^{(n\_)}*\text{Sin}[(c\_.) + (d\_.)*(x\_)]^{(n\_)}]/(\text{Cos}[(c\_.) + (d\_.)*(x\_)]*(b\_.) + (a\_)), x\_]$   
 $\text{Symbo1] } \rightarrow \text{Simp}[1/b \text{ Int}[(e + f*x)^m*\text{Sec}[c + d*x]^{(p-1)}*\text{Cot}[c + d*x]^{(n-1)}*\text{Sin}[c + d*x]^{(n-1)}, x], x] - \text{Simp}[a/b \text{ Int}[(e + f*x)^m*\text{Sec}[c + d*x]^{(p-1)}*(\text{Cot}[c + d*x]^{(n-1)}*\text{Sin}[c + d*x]^{(n-1)}/(a + b*\text{Cos}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$

- 1]  $\rightarrow$  Simp[1/a Int[(e + f\*x)^m\*Sin[c + d\*x]^p\*Sec[c + d\*x]^n, x], x - Simp[b/a Int[(e + f\*x)^m\*Sin[c + d\*x]^p\*(Sec[c + d\*x]^(n - 1)/(a + b\*Cos[c + d\*x])), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && IGtQ[n, 0] && IGtQ[p, 0]
5058. Int[(Cos[(c\_.) + (d\_.)\*(x\_)]^(p\_.)\*((e\_.) + (f\_.)\*(x\_))^(m\_.)\*(F\_)[(c\_.) + (d\_.)\*(x\_)]^(n\_.)]/((a\_) + (b\_.)\*Sin[(c\_.) + (d\_.)\*(x\_)]), x\_Symbol]  $\rightarrow$  Unintegrable[((e + f\*x)^m\*Cos[c + d\*x]^p\*F[c + d\*x]^n)/(a + b\*Sin[c + d\*x]), x] /; FreeQ[{a, b, c, d, e, f, m, n, p}, x] && TrigQ[F]
5059. Int[(((e\_.) + (f\_.)\*(x\_))^(m\_.)\*Sin[(c\_.) + (d\_.)\*(x\_)]^(p\_.)\*(F\_)[(c\_.) + (d\_.)\*(x\_)]^(n\_.)]/((Cos[(c\_.) + (d\_.)\*(x\_)]\*(b\_.) + (a\_)), x\_Symbol]  $\rightarrow$  Unintegrable[((e + f\*x)^m\*F[c + d\*x]^n\*Sin[c + d\*x]^p)/(a + b\*Cos[c + d\*x]), x] /; FreeQ[{a, b, c, d, e, f, m, n}, x] && TrigQ[F]
5060. Int[(((e\_.) + (f\_.)\*(x\_))^(m\_.)\*(F\_)[(c\_.) + (d\_.)\*(x\_)]^(n\_.)]/((a\_) + (b\_.)\*Sec[(c\_.) + (d\_.)\*(x\_)]), x\_Symbol]  $\rightarrow$  Int[(e + f\*x)^m\*Cos[c + d\*x]\*(F[c + d\*x]^n/(b + a\*Cos[c + d\*x])), x] /; FreeQ[{a, b, c, d, e, f}, x] && TrigQ[F] && IntegersQ[m, n]
5061. Int[(((e\_.) + (f\_.)\*(x\_))^(m\_.)\*(F\_)[(c\_.) + (d\_.)\*(x\_)]^(n\_.)]/(Csc[(c\_.) + (d\_.)\*(x\_)]\*(b\_.) + (a\_)), x\_Symbol]  $\rightarrow$  Int[(e + f\*x)^m\*Sin[c + d\*x]\*(F[c + d\*x]^n/(b + a\*Sin[c + d\*x])), x] /; FreeQ[{a, b, c, d, e, f}, x] && TrigQ[F] && IntegersQ[m, n]
5062. Int[(((e\_.) + (f\_.)\*(x\_))^(m\_.)\*(F\_)[(c\_.) + (d\_.)\*(x\_)]^(n\_.)\*(G\_)[(c\_.) + (d\_.)\*(x\_)]^(p\_.)]/((a\_) + (b\_.)\*Sec[(c\_.) + (d\_.)\*(x\_)]), x\_Symbol]  $\rightarrow$  Int[(e + f\*x)^m\*Cos[c + d\*x]\*F[c + d\*x]^n\*(G[c + d\*x]^p/(b + a\*Cos[c + d\*x])), x] /; FreeQ[{a, b, c, d, e, f}, x] && TrigQ[F] && TrigQ[G] && IntegersQ[m, n, p]
5063. Int[(((e\_.) + (f\_.)\*(x\_))^(m\_.)\*(F\_)[(c\_.) + (d\_.)\*(x\_)]^(n\_.)\*(G\_)[(c\_.) + (d\_.)\*(x\_)]^(p\_.)]/(Csc[(c\_.) + (d\_.)\*(x\_)]\*(b\_.) + (a\_)), x\_Symbol]  $\rightarrow$  Int[(e + f\*x)^m\*Sin[c + d\*x]\*F[c + d\*x]^n\*(G[c + d\*x]^p/(b + a\*Sin[c + d\*x])), x] /; FreeQ[{a, b, c, d, e, f}, x] && TrigQ[F] && TrigQ[G] && IntegersQ[m, n, p]

5064.  $\text{Int}[\text{Sin}[(a_.) + (b_.)(x_.)]^{(p_.)} \text{Sin}[(c_.) + (d_.)(x_.)]^{(q_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2^{(p+q)} \text{Int}[\text{ExpandIntegrand}[(I/E^{(I*(c+d*x))} - I*E^{(I*(c+d*x))})^q, (I/E^{(I*(a+b*x))} - I*E^{(I*(a+b*x))})^p, x], x], x] /; \text{FreeQ}\{a, b, c, d, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& !\text{IntegerQ}[q]$
5065.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_.)]^{(p_.)} \text{Cos}[(c_.) + (d_.)(x_.)]^{(q_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2^{(p+q)} \text{Int}[\text{ExpandIntegrand}[(E^{((-I)*(c+d*x))} + E^{(I*(c+d*x))})^q, (E^{((-I)*(a+b*x))} + E^{(I*(a+b*x))})^p, x], x], x] /; \text{FreeQ}\{a, b, c, d, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& !\text{IntegerQ}[q]$
5066.  $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_.)]^{(q_.)} \text{Sin}[(a_.) + (b_.)(x_.)]^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2^{(p+q)} \text{Int}[\text{ExpandIntegrand}[(E^{((-I)*(c+d*x))} + E^{(I*(c+d*x))})^q, (I/E^{(I*(a+b*x))} - I*E^{(I*(a+b*x))})^p, x], x], x] /; \text{FreeQ}\{a, b, c, d, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& !\text{IntegerQ}[q]$
5067.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_.)]^{(p_.)} \text{Sin}[(c_.) + (d_.)(x_.)]^{(q_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2^{(p+q)} \text{Int}[\text{ExpandIntegrand}[(I/E^{(I*(c+d*x))} - I*E^{(I*(c+d*x))})^q, (E^{((-I)*(a+b*x))} + E^{(I*(a+b*x))})^p, x], x], x] /; \text{FreeQ}\{a, b, c, d, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& !\text{IntegerQ}[q]$
5068.  $\text{Int}[\text{Sin}[(a_.) + (b_.)(x_.)] * \text{Tan}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Int}[1/(E^{(I*(a+b*x))*2} - E^{(I*(a+b*x))})/2 - 1/(E^{(I*(a+b*x))} * (1 + E^{(2*I*(c+d*x))}) + E^{(I*(a+b*x))})/(1 + E^{(2*I*(c+d*x))}), x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b^2 - d^2, 0]$
5069.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_.)] * \text{Cot}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Int}[I*(1/(E^{(I*(a+b*x))*2}) + I*(E^{(I*(a+b*x))}/2) - I*(1/(E^{(I*(a+b*x))} * (1 - E^{(2*I*(c+d*x))})) - I*(E^{(I*(a+b*x))})/(1 - E^{(2*I*(c+d*x))}))), x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b^2 - d^2, 0]$
5070.  $\text{Int}[\text{Cot}[(c_.) + (d_.)(x_.)] * \text{Sin}[(a_.) + (b_.)(x_.)], x\_Symbol] \rightarrow \text{Int}[-E^{((-I)*(a+b*x))}/2 + E^{(I*(a+b*x))}/2 + 1/(E^{(I*(a+b*x))} * (1 - E^{(2*I*(c+d*x))})) - E^{(I*(a+b*x))}/(1 - E^{(2*I*(c+d*x))}), x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[b^2 - d^2, 0]$

5071.  $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)]*\text{Tan}[(c_.) + (d_.)(x_)], x\_Symbol] \rightarrow \text{Int}[(-I)*(1/(\text{E}^{(I*(a + b*x))^2}) - I*(\text{E}^{(I*(a + b*x))/2}) + I*(1/(\text{E}^{(I*(a + b*x))}*(1 + \text{E}^{(2*I*(c + d*x))}))) + I*(\text{E}^{(I*(a + b*x))}/(1 + \text{E}^{(2*I*(c + d*x))})), x] /; \text{FreeQ}\{a, b, c, d, x\} \ \&\& \ \text{NeQ}[b^2 - d^2, 0]$
5072.  $\text{Int}[\text{Sin}[(a_.)/((c_.) + (d_.)(x_))]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[\text{Sin}[a*x]^n/x^2, x], x, 1/(c + d*x)], x] /; \text{FreeQ}\{a, c, d, x\} \ \&\& \ \text{IGtQ}[n, 0]$
5073.  $\text{Int}[\text{Cos}[(a_.)/((c_.) + (d_.)(x_))]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[\text{Cos}[a*x]^n/x^2, x], x, 1/(c + d*x)], x] /; \text{FreeQ}\{a, c, d, x\} \ \&\& \ \text{IGtQ}[n, 0]$
5074.  $\text{Int}[\text{Sin}[(e_.)*((a_.) + (b_.)(x_))]/((c_.) + (d_.)(x_))]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[\text{Sin}[b*(e/d) - e*(b*c - a*d)*(x/d)]^n/x^2, x], x, 1/(c + d*x)], x] /; \text{FreeQ}\{a, b, c, d, x\} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
5075.  $\text{Int}[\text{Cos}[(e_.)*((a_.) + (b_.)(x_))]/((c_.) + (d_.)(x_))]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[\text{Cos}[b*(e/d) - e*(b*c - a*d)*(x/d)]^n/x^2, x], x, 1/(c + d*x)], x] /; \text{FreeQ}\{a, b, c, d, x\} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
5076.  $\text{Int}[\text{Sin}[u_]^{(n_.)}, x\_Symbol] \rightarrow \text{Module}\{lst = \text{QuotientOfLinearsParts}[u, x], \text{Int}[\text{Sin}[(lst[[1]] + lst[[2]]*x)/(lst[[3]] + lst[[4]]*x)]^n, x] /; \text{IGtQ}[n, 0] \ \&\& \ \text{QuotientOfLinearsQ}[u, x]$
5077.  $\text{Int}[\text{Cos}[u_]^{(n_.)}, x\_Symbol] \rightarrow \text{Module}\{lst = \text{QuotientOfLinearsParts}[u, x], \text{Int}[\text{Cos}[(lst[[1]] + lst[[2]]*x)/(lst[[3]] + lst[[4]]*x)]^n, x] /; \text{IGtQ}[n, 0] \ \&\& \ \text{QuotientOfLinearsQ}[u, x]$
5078.  $\text{Int}[(u_.)*\text{Sin}[v_]^{(p_.)}*\text{Sin}[w_]^{(q_.)}, x\_Symbol] \rightarrow \text{Int}[u*\text{Sin}[v]^{(p + q)}, x] /; \text{EqQ}[w, v]$
5079.  $\text{Int}[\text{Cos}[v_]^{(p_.)}*\text{Cos}[w_]^{(q_.)}*(u_.), x\_Symbol] \rightarrow \text{Int}[u*\text{Cos}[v]^{(p + q)}, x] /; \text{EqQ}[w, v]$

5080.  $\text{Int}[\text{Sin}[v\_ ]^{\text{p}\_ } * \text{Sin}[w\_ ]^{\text{q}\_ }, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Sin}[v\_ ]^{\text{p}\_ } * \text{Sin}[w\_ ]^{\text{q}\_ }, x], x] /; ((\text{PolynomialQ}[v, x] \ \&\& \ \text{PolynomialQ}[w, x]) \ || \ (\text{BinomialQ}[\{v, w\}, x] \ \&\& \ \text{IndependentQ}[\text{Cancel}[v/w], x])) \ \&\& \ \text{IGtQ}[\text{p}, 0] \ \&\& \ \text{IGtQ}[\text{q}, 0]$
5081.  $\text{Int}[\text{Cos}[v\_ ]^{\text{p}\_ } * \text{Cos}[w\_ ]^{\text{q}\_ }, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Cos}[v\_ ]^{\text{p}\_ } * \text{Cos}[w\_ ]^{\text{q}\_ }, x], x] /; ((\text{PolynomialQ}[v, x] \ \&\& \ \text{PolynomialQ}[w, x]) \ || \ (\text{BinomialQ}[\{v, w\}, x] \ \&\& \ \text{IndependentQ}[\text{Cancel}[v/w], x])) \ \&\& \ \text{IGtQ}[\text{p}, 0] \ \&\& \ \text{IGtQ}[\text{q}, 0]$
5082.  $\text{Int}[(x\_ )^{\text{m}\_ } * \text{Sin}[v\_ ]^{\text{p}\_ } * \text{Sin}[w\_ ]^{\text{q}\_ }, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[x^{\text{m}\_ }, \text{Sin}[v\_ ]^{\text{p}\_ } * \text{Sin}[w\_ ]^{\text{q}\_ }, x], x] /; \text{IGtQ}[\text{m}, 0] \ \&\& \ \text{IGtQ}[\text{p}, 0] \ \&\& \ \text{IGtQ}[\text{q}, 0] \ \&\& \ ((\text{PolynomialQ}[v, x] \ \&\& \ \text{PolynomialQ}[w, x]) \ || \ (\text{BinomialQ}[\{v, w\}, x] \ \&\& \ \text{IndependentQ}[\text{Cancel}[v/w], x]))$
5083.  $\text{Int}[\text{Cos}[v\_ ]^{\text{p}\_ } * \text{Cos}[w\_ ]^{\text{q}\_ } * (x\_ )^{\text{m}\_ }, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[x^{\text{m}\_ }, \text{Cos}[v\_ ]^{\text{p}\_ } * \text{Cos}[w\_ ]^{\text{q}\_ }, x], x] /; \text{IGtQ}[\text{m}, 0] \ \&\& \ \text{IGtQ}[\text{p}, 0] \ \&\& \ \text{IGtQ}[\text{q}, 0] \ \&\& \ ((\text{PolynomialQ}[v, x] \ \&\& \ \text{PolynomialQ}[w, x]) \ || \ (\text{BinomialQ}[\{v, w\}, x] \ \&\& \ \text{IndependentQ}[\text{Cancel}[v/w], x]))$
5084.  $\text{Int}[\text{Cos}[w\_ ]^{\text{p}\_ } * (u\_ ) * \text{Sin}[v\_ ]^{\text{p}\_ }, x\_ \text{Symbol}] \rightarrow \text{Simp}[1/2^{\text{p}\_ } \ \text{Int}[u * \text{Sin}[2*v] ^{\text{p}\_ }, x], x] /; \text{EqQ}[w, v] \ \&\& \ \text{IntegerQ}[\text{p}]$
5085.  $\text{Int}[\text{Cos}[w\_ ]^{\text{q}\_ } * \text{Sin}[v\_ ]^{\text{p}\_ }, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Sin}[v\_ ]^{\text{p}\_ } * \text{Cos}[w\_ ]^{\text{q}\_ }, x], x] /; \text{IGtQ}[\text{p}, 0] \ \&\& \ \text{IGtQ}[\text{q}, 0] \ \&\& \ ((\text{PolynomialQ}[v, x] \ \&\& \ \text{PolynomialQ}[w, x]) \ || \ (\text{BinomialQ}[\{v, w\}, x] \ \&\& \ \text{IndependentQ}[\text{Cancel}[v/w], x]))$
5086.  $\text{Int}[\text{Cos}[w\_ ]^{\text{q}\_ } * (x\_ )^{\text{m}\_ } * \text{Sin}[v\_ ]^{\text{p}\_ }, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[x^{\text{m}\_ }, \text{Sin}[v\_ ]^{\text{p}\_ } * \text{Cos}[w\_ ]^{\text{q}\_ }, x], x] /; \text{IGtQ}[\text{m}, 0] \ \&\& \ \text{IGtQ}[\text{p}, 0] \ \&\& \ \text{IGtQ}[\text{q}, 0] \ \&\& \ ((\text{PolynomialQ}[v, x] \ \&\& \ \text{PolynomialQ}[w, x]) \ || \ (\text{BinomialQ}[\{v, w\}, x] \ \&\& \ \text{IndependentQ}[\text{Cancel}[v/w], x]))$
5087.  $\text{Int}[\text{Sin}[v\_ ] * \text{Tan}[w\_ ]^{\text{n}\_ }, x\_ \text{Symbol}] \rightarrow -\text{Int}[\text{Cos}[v] * \text{Tan}[w]^{\text{n}\_ - 1}, x] + \text{Simp}[\text{Cos}[v - w] \ \text{Int}[\text{Sec}[w] * \text{Tan}[w]^{\text{n}\_ - 1}, x], x] /; \text{GtQ}[\text{n}, 0] \ \&\&$



- FreeQ[v - w, x] && NeQ[w, v]
5088. Int[Cos[v\_] \* Cot[w\_]^(n\_), x\_Symbol] := -Int[Sin[v] \* Cot[w]^(n - 1), x] + Simp[Cos[v - w] Int[Csc[w] \* Cot[w]^(n - 1), x], x] /; GtQ[n, 0] && FreeQ[v - w, x] && NeQ[w, v]
5089. Int[Cot[w\_]^(n\_) \* Sin[v\_], x\_Symbol] := Int[Cos[v] \* Cot[w]^(n - 1), x] + Simp[Sin[v - w] Int[Csc[w] \* Cot[w]^(n - 1), x], x] /; GtQ[n, 0] && FreeQ[v - w, x] && NeQ[w, v]
5090. Int[Cos[v\_] \* Tan[w\_]^(n\_), x\_Symbol] := Int[Sin[v] \* Tan[w]^(n - 1), x] - Simp[Sin[v - w] Int[Sec[w] \* Tan[w]^(n - 1), x], x] /; GtQ[n, 0] && FreeQ[v - w, x] && NeQ[w, v]
5091. Int[Sec[w\_]^(n\_) \* Sin[v\_], x\_Symbol] := Simp[Cos[v - w] Int[Tan[w] \* Sec[w]^(n - 1), x], x] + Simp[Sin[v - w] Int[Sec[w]^(n - 1), x], x] /; GtQ[n, 0] && FreeQ[v - w, x] && NeQ[w, v]
5092. Int[Cos[v\_] \* Csc[w\_]^(n\_), x\_Symbol] := Simp[Cos[v - w] Int[Cot[w] \* Csc[w]^(n - 1), x], x] - Simp[Sin[v - w] Int[Csc[w]^(n - 1), x], x] /; GtQ[n, 0] && FreeQ[v - w, x] && NeQ[w, v]
5093. Int[Csc[w\_]^(n\_) \* Sin[v\_], x\_Symbol] := Simp[Sin[v - w] Int[Cot[w] \* Csc[w]^(n - 1), x], x] + Simp[Cos[v - w] Int[Csc[w]^(n - 1), x], x] /; GtQ[n, 0] && FreeQ[v - w, x] && NeQ[w, v]
5094. Int[Cos[v\_] \* Sec[w\_]^(n\_), x\_Symbol] := Simp[-Sin[v - w] Int[Tan[w] \* Sec[w]^(n - 1), x], x] + Simp[Cos[v - w] Int[Sec[w]^(n - 1), x], x] /; GtQ[n, 0] && FreeQ[v - w, x] && NeQ[w, v]
5095. Int[((e\_) + (f\_)\*(x\_))^(m\_)\*((a\_) + Cos[(c\_) + (d\_)\*(x\_)])\*(b\_)\*Sin[(c\_) + (d\_)\*(x\_)]^(n\_), x\_Symbol] := Int[(e + f\*x)^m\*(a + b\*(Sin[2\*c + 2\*d\*x]/2))^n, x] /; FreeQ[{a, b, c, d, e, f, m, n}, x]
5096. Int[(x\_)^(m\_)\*((a\_) + (b\_)\*Sin[(c\_) + (d\_)\*(x\_)]^2)^(n\_), x\_Symbol] := Simp[1/2^n Int[x^m\*(2\*a + b - b\*Cos[2\*c + 2\*d\*x])^n, x], x] /;

```
FreeQ[{a, b, c, d}, x] && NeQ[a + b, 0] && IGtQ[m, 0] && ILtQ[n, 0] &&
(EqQ[n, -1] || (EqQ[m, 1] && EqQ[n, -2]))
```

```
5097. Int[(Cos[(c_.) + (d_.)*(x_)]^2*(b_.) + (a_.))^(n_)*(x_)^(m_.), x_Symbol]
:> Simp[1/2^n Int[x^m*(2*a + b + b*Cos[2*c + 2*d*x])^n, x], x] /;
FreeQ[{a, b, c, d}, x] && NeQ[a + b, 0] && IGtQ[m, 0] && ILtQ[n, 0] &&
(EqQ[n, -1] || (EqQ[m, 1] && EqQ[n, -2]))
```

```
5098. Int[((f_.) + (g_.)*(x_))^(m_.)/((a_.) + Cos[(d_.) + (e_.)*(x_)]^2*(b_.)
+ (c_.)*Sin[(d_.) + (e_.)*(x_)]^2), x_Symbol] :> Simp[2 Int[(f + g
*x)^m/(2*a + b + c + (b - c)*Cos[2*d + 2*e*x]), x], x] /; FreeQ[{a, b,
c, d, e, f, g}, x] && IGtQ[m, 0] && NeQ[a + b, 0] && NeQ[a + c, 0]
```

```
5099. Int[((f_.) + (g_.)*(x_))^(m_.)*Sec[(d_.) + (e_.)*(x_)]^2)/((b_.) + (c_.)
Tan[(d_.) + (e_.)(x_)]^2), x_Symbol] :> Simp[2 Int[(f + g*x)^m/(
b + c + (b - c)*Cos[2*d + 2*e*x]), x], x] /; FreeQ[{b, c, d, e, f, g},
x] && IGtQ[m, 0]
```

```
5100. Int[((f_.) + (g_.)*(x_))^(m_.)*Sec[(d_.) + (e_.)*(x_)]^2)/((b_.) + (a_.)
Sec[(d_.) + (e_.)(x_)]^2 + (c_.)*Tan[(d_.) + (e_.)*(x_)]^2), x_Sy
mbol] :> Simp[2 Int[(f + g*x)^m/(2*a + b + c + (b - c)*Cos[2*d + 2*e
*x]), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[m, 0] && NeQ[a
+ b, 0] && NeQ[a + c, 0]
```

```
5101. Int[(Csc[(d_.) + (e_.)*(x_)]^2*((f_.) + (g_.)*(x_))^(m_.))/(Cot[(d_.)
+ (e_.)*(x_)]^2*(b_.) + (c_.)), x_Symbol] :> Simp[2 Int[(f + g*x)^m/(
b + c + (b - c)*Cos[2*d + 2*e*x]), x], x] /; FreeQ[{b, c, d, e, f, g},
x] && IGtQ[m, 0]
```

```
5102. Int[(Csc[(d_.) + (e_.)*(x_)]^2*((f_.) + (g_.)*(x_))^(m_.))/(Csc[(d_.)
+ (e_.)*(x_)]^2*(a_.) + Cot[(d_.) + (e_.)*(x_)]^2*(b_.) + (c_.)), x_Sy
mbol] :> Simp[2 Int[(f + g*x)^m/(2*a + b + c + (b - c)*Cos[2*d + 2*e
*x]), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[m, 0] && NeQ[a
+ b, 0] && NeQ[a + c, 0]
```

5103.  $\text{Int}[(((e_{.}) + (f_{.})*(x_{.}))*(A_{.}) + (B_{.})*\text{Sin}[(c_{.}) + (d_{.})*(x_{.})]))/((a_{.}) + (b_{.})*\text{Sin}[(c_{.}) + (d_{.})*(x_{.})])^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-B)*(e + f*x) * (\text{Cos}[c + d*x]/(a*d*(a + b*\text{Sin}[c + d*x]))), x] + \text{Simp}[B*(f/(a*d)) \text{Int}[\text{Cos}[c + d*x]/(a + b*\text{Sin}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\& \text{EqQ}[a*A - b*B, 0]$
5104.  $\text{Int}[((\text{Cos}[(c_{.}) + (d_{.})*(x_{.})]*(B_{.}) + (A_{.}))*(e_{.}) + (f_{.})*(x_{.}))/(\text{Cos}[(c_{.}) + (d_{.})*(x_{.})]*(b_{.}) + (a_{.}))^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[B*(e + f*x)*(\text{Sin}[c + d*x]/(a*d*(a + b*\text{Cos}[c + d*x]))), x] - \text{Simp}[B*(f/(a*d)) \text{Int}[\text{Sin}[c + d*x]/(a + b*\text{Cos}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B\}, x] \&\& \text{EqQ}[a*A - b*B, 0]$
5105.  $\text{Int}[(x_{.})^2/(\text{Cos}[(a_{.})*(x_{.})]*(d_{.})*(x_{.}) + (c_{.})*\text{Sin}[(a_{.})*(x_{.})])^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[x/(a*d*\text{Sin}[a*x]*(c*\text{Sin}[a*x] + d*x*\text{Cos}[a*x])), x] + \text{Simp}[1/d^2 \text{Int}[1/\text{Sin}[a*x]^2, x], x] /; \text{FreeQ}\{a, c, d\}, x] \&\& \text{EqQ}[a*c + d, 0]$
5106.  $\text{Int}[(x_{.})^2/(\text{Cos}[(a_{.})*(x_{.})]*(c_{.}) + (d_{.})*(x_{.})*\text{Sin}[(a_{.})*(x_{.})])^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[-x/(a*d*\text{Cos}[a*x]*(c*\text{Cos}[a*x] + d*x*\text{Sin}[a*x])), x] + \text{Simp}[1/d^2 \text{Int}[1/\text{Cos}[a*x]^2, x], x] /; \text{FreeQ}\{a, c, d\}, x] \&\& \text{EqQ}[a*c - d, 0]$
5107.  $\text{Int}[\text{Sin}[(a_{.})*(x_{.})]^2/(\text{Cos}[(a_{.})*(x_{.})]*(d_{.})*(x_{.}) + (c_{.})*\text{Sin}[(a_{.})*(x_{.})])^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/(d^2*x), x] + \text{Simp}[\text{Sin}[a*x]/(a*d*x*(d*x*\text{Cos}[a*x] + c*\text{Sin}[a*x])), x] /; \text{FreeQ}\{a, c, d\}, x] \&\& \text{EqQ}[a*c + d, 0]$
5108.  $\text{Int}[\text{Cos}[(a_{.})*(x_{.})]^2/(\text{Cos}[(a_{.})*(x_{.})]*(c_{.}) + (d_{.})*(x_{.})*\text{Sin}[(a_{.})*(x_{.})])^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/(d^2*x), x] - \text{Simp}[\text{Cos}[a*x]/(a*d*x*(d*x*\text{Sin}[a*x] + c*\text{Cos}[a*x])), x] /; \text{FreeQ}\{a, c, d\}, x] \&\& \text{EqQ}[a*c - d, 0]$
5109.  $\text{Int}[(((b_{.})*(x_{.}))^{(m_{.})}*\text{Sin}[(a_{.})*(x_{.})]^{(n_{.})})/(\text{Cos}[(a_{.})*(x_{.})]*(d_{.})*(x_{.}) + (c_{.})*\text{Sin}[(a_{.})*(x_{.})])^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[b*(b*x)^{(m-1)}*(\text{Sin}[a*x]^{(n-1)}/(a*d*(c*\text{Sin}[a*x] + d*x*\text{Cos}[a*x]))), x] - \text{Simp}[b^2*((n-1)/d^2) \text{Int}[(b*x)^{(m-2)}*\text{Sin}[a*x]^{(n-2)}, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \&\& \text{EqQ}[a*c + d, 0] \&\& \text{EqQ}[m, 2 - n]$

5110.  $\text{Int}[(\text{Cos}[(a\_)(x\_)]^{(n\_)} * ((b\_)(x\_))^{(m\_)} / (\text{Cos}[(a\_)(x\_)] * (c\_)(x\_)) + (d\_)(x\_)*\text{Sin}[(a\_)(x\_)]^2, x\_Symbol] \rightarrow \text{Simp}[(-b)*(b*x)^{(m-1)} * (\text{Cos}[a*x]^{(n-1)} / (a*d*(c*\text{Cos}[a*x] + d*x*\text{Sin}[a*x]))), x] - \text{Simp}[b^2 * ((n-1)/d^2) \text{Int}[(b*x)^{(m-2)} * \text{Cos}[a*x]^{(n-2)}, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \&\& \text{EqQ}[a*c - d, 0] \&\& \text{EqQ}[m, 2 - n]$
5111.  $\text{Int}[(\text{Csc}[(a\_)(x\_)]^{(n\_)} * ((b\_)(x\_))^{(m\_)} / (\text{Cos}[(a\_)(x\_)] * (d\_)(x\_)) + (c\_)(x\_)*\text{Sin}[(a\_)(x\_)]^2, x\_Symbol] \rightarrow \text{Simp}[b*(b*x)^{(m-1)} * (\text{Csc}[a*x]^{(n+1)} / (a*d*(c*\text{Sin}[a*x] + d*x*\text{Cos}[a*x]))), x] + \text{Simp}[b^2 * ((n+1)/d^2) \text{Int}[(b*x)^{(m-2)} * \text{Csc}[a*x]^{(n+2)}, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \&\& \text{EqQ}[a*c + d, 0] \&\& \text{EqQ}[m, n + 2]$
5112.  $\text{Int}[(((b\_)(x\_))^{(m\_)} * \text{Sec}[(a\_)(x\_)]^{(n\_)} / (\text{Cos}[(a\_)(x\_)] * (c\_)(x\_)) + (d\_)(x\_)*\text{Sin}[(a\_)(x\_)]^2, x\_Symbol] \rightarrow \text{Simp}[(-b)*(b*x)^{(m-1)} * (\text{Sec}[a*x]^{(n+1)} / (a*d*(c*\text{Cos}[a*x] + d*x*\text{Sin}[a*x]))), x] + \text{Simp}[b^2 * ((n+1)/d^2) \text{Int}[(b*x)^{(m-2)} * \text{Sec}[a*x]^{(n+2)}, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x] \&\& \text{EqQ}[a*c - d, 0] \&\& \text{EqQ}[m, n + 2]$
5113.  $\text{Int}[((g\_)(x\_))^{(p\_)} * ((a\_)(x\_))^{(m\_)} * ((c\_)(x\_))^{(n\_)} * ((d\_)(x\_))^{(n\_)} * \text{Sin}[(e\_)(x\_)]^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[a^m * c^m \text{Int}[(g + h*x)^p * \text{Cos}[e + f*x]^{(2*m)} * (c + d*\text{Sin}[e + f*x])^{(n-m)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m] \&\& \text{IGtQ}[n - m, 0]$
5114.  $\text{Int}[(\text{Cos}[(e\_)(x\_)] * (b\_)(x\_))^{(m\_)} * ((a\_)(x\_))^{(n\_)} * ((c\_)(x\_))^{(n\_)} * ((d\_)(x\_))^{(n\_)} * ((g\_)(x\_))^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[a^m * c^m \text{Int}[(g + h*x)^p * \text{Sin}[e + f*x]^{(2*m)} * (c + d*\text{Cos}[e + f*x])^{(n-m)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[m] \&\& \text{IGtQ}[n - m, 0]$
5115.  $\text{Int}[((g\_)(x\_))^{(p\_)} * ((a\_)(x\_))^{(m\_)} * ((c\_)(x\_))^{(n\_)} * ((d\_)(x\_))^{(n\_)} * \text{Sin}[(e\_)(x\_)]^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[a^m \text{IntPart}[m] * c^{\text{IntPart}[m]} * (a + b*\text{Sin}[e + f*x])^{\text{FracPart}[m]} * ((c + d*\text{Sin}[e + f*x])^{\text{FracPart}[m]} / \text{Cos}[e + f*x]^{(2*\text{FracPart}[m])}) \text{Int}[(g + h*x)^p * \text{Cos}[e + f*x]^{(2*m)} * (c + d*\text{Sin}[e + f*x])^{(n-m)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h\}, x] \&\& \text{EqQ}[b*c + a*d, 0] \&\& \text{EqQ}[a^2 - b^2, 0] \&\& \text{IntegerQ}[p] \&\& \text{IntegerQ}[2*m] \&\& \text{IGeQ}[n - m, 0]$

5116.  $\text{Int}[(\cos(e_.) + (f_.)x)(b_.) + (a_.)^m(\cos(e_.) + (f_.)x)(d_.) + (c_.)^n((g_.) + (h_.)x)^p], x\_Symbol] \rightarrow \text{Simp}[a^{\text{IntPart}[m]}c^{\text{IntPart}[m]}(a + b\cos[e + fx])^{\text{FracPart}[m]}((c + d\cos[e + fx])^{\text{FracPart}[m]}/\sin[e + fx]^{2\text{FracPart}[m]}) \text{Int}[(g + hx)^p \sin[e + fx]^{2m}(c + d\cos[e + fx])^{n-m}], x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \ \&\& \ \text{EqQ}[b*c + a*d, 0] \ \&\& \ \text{EqQ}[a^2 - b^2, 0] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[2*m] \ \&\& \ \text{IGeQ}[n - m, 0]$
5117.  $\text{Int}[\sec[v_]^m((a_.) + (b_.)\tan[v_])^n], x\_Symbol] \rightarrow \text{Int}[(a\cos[v] + b\sin[v])^n, x] /;$   $\text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{IntegerQ}[(m - 1)/2] \ \&\& \ \text{EqQ}[m + n, 0]$
5118.  $\text{Int}[\csc[v_]^m(\cot[v_](b_.) + (a_.)^n), x\_Symbol] \rightarrow \text{Int}[(b\cos[v] + a\sin[v])^n, x] /;$   $\text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{IntegerQ}[(m - 1)/2] \ \&\& \ \text{EqQ}[m + n, 0]$
5119.  $\text{Int}[(u_.)\sin[(a_.) + (b_.)x]^m\sin[(c_.) + (d_.)x]^n], x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[u, \sin[a + bx]^m\sin[c + dx]^n, x], x] /;$   $\text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{IGtQ}[n, 0]$
5120.  $\text{Int}[(\cos[(a_.) + (b_.)x]^m\cos[(c_.) + (d_.)x]^n)(u_.)], x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[u, \cos[a + bx]^m\cos[c + dx]^n, x], x] /;$   $\text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{IGtQ}[n, 0]$
5121.  $\text{Int}[\sec[(a_.) + (b_.)x]\sec[(c_.) + (d_.)x], x\_Symbol] \rightarrow \text{Simp}[-\csc[(b*c - a*d)/d] \text{Int}[\tan[a + bx], x], x] + \text{Simp}[\csc[(b*c - a*d)/b] \text{Int}[\tan[c + dx], x], x] /;$   $\text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b^2 - d^2, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
5122.  $\text{Int}[\csc[(a_.) + (b_.)x]\csc[(c_.) + (d_.)x], x\_Symbol] \rightarrow \text{Simp}[\csc[(b*c - a*d)/b] \text{Int}[\cot[a + bx], x], x] - \text{Simp}[\csc[(b*c - a*d)/d] \text{Int}[\cot[c + dx], x], x] /;$   $\text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b^2 - d^2, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$

5123.  $\text{Int}[\text{Tan}[(a_.) + (b_.)(x_)]*\text{Tan}[(c_) + (d_.)(x_)], x\_Symbol] \rightarrow \text{Simp}[-(b)*(x/d), x] + \text{Simp}[(b/d)*\text{Cos}[(b*c - a*d)/d] \text{Int}[\text{Sec}[a + b*x]*\text{Sec}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{EqQ}[b^2 - d^2, 0] \&\& \text{NeQ}[b*c - a*d, 0]$
5124.  $\text{Int}[\text{Cot}[(a_.) + (b_.)(x_)]*\text{Cot}[(c_) + (d_.)(x_)], x\_Symbol] \rightarrow \text{Simp}[-(b)*(x/d), x] + \text{Simp}[\text{Cos}[(b*c - a*d)/d] \text{Int}[\text{Csc}[a + b*x]*\text{Csc}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{EqQ}[b^2 - d^2, 0] \&\& \text{NeQ}[b*c - a*d, 0]$
5125.  $\text{Int}[(u_.)*(\text{Cos}[v_]*(a_.) + (b_.)*\text{Sin}[v_])^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[u*(a/E^{((a/b)*v)})^n, x] /; \text{FreeQ}[\{a, b, n\}, x] \&\& \text{EqQ}[a^2 + b^2, 0]$
5126.  $\text{Int}[\text{Sin}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}]*(b_.)]^2*(d_.), x\_Symbol] \rightarrow \text{Simp}[I/2 \text{Int}[E^{((-I)*d*(a + b*\text{Log}[c*x^n])^2)}, x], x] - \text{Simp}[I/2 \text{Int}[E^{(I*d*(a + b*\text{Log}[c*x^n])^2)}, x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
5127.  $\text{Int}[\text{Cos}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}]*(b_.)]^2*(d_.), x\_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{((-I)*d*(a + b*\text{Log}[c*x^n])^2)}, x], x] + \text{Simp}[1/2 \text{Int}[E^{(I*d*(a + b*\text{Log}[c*x^n])^2)}, x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
5128.  $\text{Int}[(e_.)(x_)^{(m_.)}*\text{Sin}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}]*(b_.)]^2*(d_.), x\_Symbol] \rightarrow \text{Simp}[I/2 \text{Int}[(e*x)^m/E^{(I*d*(a + b*\text{Log}[c*x^n])^2)}, x], x] - \text{Simp}[I/2 \text{Int}[(e*x)^m*E^{(I*d*(a + b*\text{Log}[c*x^n])^2)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$
5129.  $\text{Int}[\text{Cos}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}]*(b_.)]^2*(d_.)*(e_.)(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[(e*x)^m/E^{(I*d*(a + b*\text{Log}[c*x^n])^2)}, x], x] + \text{Simp}[1/2 \text{Int}[(e*x)^m*E^{(I*d*(a + b*\text{Log}[c*x^n])^2)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$
5130.  $\text{Int}[(a_.) + \text{ArcSin}[(c_.)(x_)]*(b_.)]^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[x*(a + b*\text{ArcSin}[c*x])^n, x] - \text{Simp}[b*c*n \text{Int}[x*((a + b*\text{ArcSin}[c*x])^{(n-1)})/\text{Sqrt}[1 - c^2*x^2]), x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{GtQ}[n, 0]$

5131.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b + \text{ArcCos}[c \cdot x])^n, x\_Symbol] \rightarrow \text{Simp}[x \cdot (a + b \cdot \text{ArcCos}[c \cdot x])^n, x] + \text{Simp}[b \cdot c \cdot n \cdot \text{Int}[x \cdot (a + b \cdot \text{ArcCos}[c \cdot x])^{n-1} / \sqrt{1 - c^2 \cdot x^2}], x], x] /;$   $\text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{GtQ}[n, 0]$
5132.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b + \text{ArcSin}[c \cdot x])^n, x\_Symbol] \rightarrow \text{Simp}[\sqrt{1 - c^2 \cdot x^2} \cdot (a + b \cdot \text{ArcSin}[c \cdot x])^{n+1} / (b \cdot c \cdot (n+1)), x] + \text{Simp}[c / (b \cdot (n+1)) \cdot \text{Int}[x \cdot (a + b \cdot \text{ArcSin}[c \cdot x])^{n+1} / \sqrt{1 - c^2 \cdot x^2}], x], x] /;$   $\text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{LtQ}[n, -1]$
5133.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b + \text{ArcCos}[c \cdot x])^n, x\_Symbol] \rightarrow \text{Simp}[(-\sqrt{1 - c^2 \cdot x^2}) \cdot (a + b \cdot \text{ArcCos}[c \cdot x])^{n+1} / (b \cdot c \cdot (n+1)), x] - \text{Simp}[c / (b \cdot (n+1)) \cdot \text{Int}[x \cdot (a + b \cdot \text{ArcCos}[c \cdot x])^{n+1} / \sqrt{1 - c^2 \cdot x^2}], x], x] /;$   $\text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{LtQ}[n, -1]$
5134.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b + \text{ArcSin}[c \cdot x])^n, x\_Symbol] \rightarrow \text{Simp}[1 / (b \cdot c) \cdot \text{Subst}[\text{Int}[x^n \cdot \text{Cos}[-a/b + x/b], x], x, a + b \cdot \text{ArcSin}[c \cdot x]], x] /;$   $\text{FreeQ}\{a, b, c, n, x\}$
5135.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b + \text{ArcCos}[c \cdot x])^n, x\_Symbol] \rightarrow \text{Simp}[-(b \cdot c)^{-1} \cdot \text{Subst}[\text{Int}[x^n \cdot \text{Sin}[-a/b + x/b], x], x, a + b \cdot \text{ArcCos}[c \cdot x]], x] /;$   $\text{FreeQ}\{a, b, c, n, x\}$
5136.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b + \text{ArcSin}[c \cdot x])^n / (x), x\_Symbol] \rightarrow \text{Subst}[\text{Int}[(a + b \cdot x)^n \cdot \text{Cot}[x], x], x, \text{ArcSin}[c \cdot x]] /;$   $\text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[n, 0]$
5137.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b + \text{ArcCos}[c \cdot x])^n / (x), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b \cdot x)^n \cdot \text{Tan}[x], x], x, \text{ArcCos}[c \cdot x]] /;$   $\text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[n, 0]$
5138.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b + \text{ArcSin}[c \cdot x])^n \cdot (d \cdot x)^m, x\_Symbol] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcSin}[c \cdot x])^n / (d \cdot (m+1)), x] - \text{Simp}[b \cdot c \cdot (n / (d \cdot (m+1))) \cdot \text{Int}[(d \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcSin}[c \cdot x])^{n-1} / \sqrt{1 - c^2 \cdot x^2}], x], x] /;$   $\text{FreeQ}\{a, b, c, d, m, x\} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{NeQ}[m, -1]$

5139. `Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^(n_.)*((d_.)*(x_))^(m_.), x_Symbol] := Simp[(d*x)^(m + 1)*((a + b*ArcCos[c*x])^n/(d*(m + 1))), x] + Simp[b*c*(n/(d*(m + 1))) Int[(d*x)^(m + 1)*((a + b*ArcCos[c*x])^(n - 1)/Sqrt[1 - c^2*x^2]), x], x] /; FreeQ[{a, b, c, d, m}, x] && IGtQ[n, 0] && NeQ[m, -1]`
5140. `Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^(n_)*(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)*((a + b*ArcSin[c*x])^n/(m + 1)), x] - Simp[b*c*(n/(m + 1)) Int[x^(m + 1)*((a + b*ArcSin[c*x])^(n - 1)/Sqrt[1 - c^2*x^2]), x], x] /; FreeQ[{a, b, c}, x] && IGtQ[m, 0] && GtQ[n, 0]`
5141. `Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^(n_)*(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)*((a + b*ArcCos[c*x])^n/(m + 1)), x] + Simp[b*c*(n/(m + 1)) Int[x^(m + 1)*((a + b*ArcCos[c*x])^(n - 1)/Sqrt[1 - c^2*x^2]), x], x] /; FreeQ[{a, b, c}, x] && IGtQ[m, 0] && GtQ[n, 0]`
5142. `Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^(n_)*(x_)^(m_.), x_Symbol] := Simp[x^m*Sqrt[1 - c^2*x^2]*((a + b*ArcSin[c*x])^(n + 1)/(b*c*(n + 1))), x] - Simp[1/(b^2*c^(m + 1)*(n + 1)) Subst[Int[ExpandTrigReduce[x^(n + 1), Sin[-a/b + x/b]^(m - 1)*(m - (m + 1)*Sin[-a/b + x/b]^2), x], x], x, a + b*ArcSin[c*x]], x] /; FreeQ[{a, b, c}, x] && IGtQ[m, 0] && GeQ[n, -2] && LtQ[n, -1]`
5143. `Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^(n_)*(x_)^(m_.), x_Symbol] := Simp[(-x^m)*Sqrt[1 - c^2*x^2]*((a + b*ArcCos[c*x])^(n + 1)/(b*c*(n + 1))), x] - Simp[1/(b^2*c^(m + 1)*(n + 1)) Subst[Int[ExpandTrigReduce[x^(n + 1), Cos[-a/b + x/b]^(m - 1)*(m - (m + 1)*Cos[-a/b + x/b]^2), x], x], x, a + b*ArcCos[c*x]], x] /; FreeQ[{a, b, c}, x] && IGtQ[m, 0] && GeQ[n, -2] && LtQ[n, -1]`
5144. `Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^(n_)*(x_)^(m_.), x_Symbol] := Simp[x^m*Sqrt[1 - c^2*x^2]*((a + b*ArcSin[c*x])^(n + 1)/(b*c*(n + 1))), x] + (Simp[c*(m + 1)/(b*(n + 1)) Int[x^(m + 1)*((a + b*ArcSin[c*x])^(n + 1)/Sqrt[1 - c^2*x^2]), x], x] - Simp[m/(b*c*(n + 1)) Int[x^(m - 1)*((a + b*ArcSin[c*x])^(n + 1)/Sqrt[1 - c^2*x^2]), x], x]) /; FreeQ[{a, b, c}, x] && IGtQ[m, 0] && LtQ[n, -2]`



5145.  $\text{Int}[\left((a_{.}) + \text{ArcCos}[(c_{.})(x_{.})](b_{.})\right)^{(n_{.})}(x_{.})^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-(x^m)\sqrt{1 - c^2x^2}((a + b\text{ArcCos}[cx])^{(n+1)})/(b^c(n+1)), x] + (-\text{Simp}[c((m+1)/(b(n+1))) \text{Int}[x^{(m+1)}((a + b\text{ArcCos}[cx])^{(n+1)})/\sqrt{1 - c^2x^2}], x], x] + \text{Simp}[m/(b^c(n+1)) \text{Int}[x^{(m-1)}((a + b\text{ArcCos}[cx])^{(n+1)})/\sqrt{1 - c^2x^2}], x], x) /;$   
 $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{LtQ}[n, -2]$
5146.  $\text{Int}[\left((a_{.}) + \text{ArcSin}[(c_{.})(x_{.})](b_{.})\right)^{(n_{.})}(x_{.})^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/(b^c(m+1)) \text{Subst}[\text{Int}[x^n \sin[-a/b + x/b]^m \cos[-a/b + x/b], x], x, a + b\text{ArcSin}[cx]], x] /;$   
 $\text{FreeQ}\{a, b, c, n\}, x \ \&\& \ \text{IGtQ}[m, 0]$
5147.  $\text{Int}[\left((a_{.}) + \text{ArcCos}[(c_{.})(x_{.})](b_{.})\right)^{(n_{.})}(x_{.})^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-(b^c(m+1))^{(-1)} \text{Subst}[\text{Int}[x^n \cos[-a/b + x/b]^m \sin[-a/b + x/b], x], x, a + b\text{ArcCos}[cx]], x] /;$   
 $\text{FreeQ}\{a, b, c, n\}, x \ \&\& \ \text{IGtQ}[m, 0]$
5148.  $\text{Int}[\left((a_{.}) + \text{ArcSin}[(c_{.})(x_{.})](b_{.})\right)^{(n_{.})}((d_{.})(x_{.}))^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d^m)(a + b\text{ArcSin}[cx])^n, x] /;$   
 $\text{FreeQ}\{a, b, c, d, m, n\}, x]$
5149.  $\text{Int}[\left((a_{.}) + \text{ArcCos}[(c_{.})(x_{.})](b_{.})\right)^{(n_{.})}((d_{.})(x_{.}))^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d^m)(a + b\text{ArcCos}[cx])^n, x] /;$   
 $\text{FreeQ}\{a, b, c, d, m, n\}, x]$
5150.  $\text{Int}[1/\left(\left((a_{.}) + \text{ArcSin}[(c_{.})(x_{.})](b_{.})\right)\sqrt{(d_{.}) + (e_{.})(x_{.})^2}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(1/(b^c))\text{Simp}[\sqrt{1 - c^2x^2}/\sqrt{d + ex^2}] * \text{Log}[a + b\text{ArcSin}[cx]], x] /;$   
 $\text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[c^2d + e, 0]$
5151.  $\text{Int}[1/\left(\left((a_{.}) + \text{ArcCos}[(c_{.})(x_{.})](b_{.})\right)\sqrt{(d_{.}) + (e_{.})(x_{.})^2}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[-(b^c)^{(-1)}\text{Simp}[\sqrt{1 - c^2x^2}/\sqrt{d + ex^2}] * (\text{Log}[a + b\text{ArcCos}[cx]]/(b^c\sqrt{d})), x] /;$   
 $\text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[c^2d + e, 0]$
5152.  $\text{Int}[\left((a_{.}) + \text{ArcSin}[(c_{.})(x_{.})](b_{.})\right)^{(n_{.})}/\sqrt{(d_{.}) + (e_{.})(x_{.})^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(1/(b^c(n+1)))\text{Simp}[\sqrt{1 - c^2x^2}/\sqrt{d +$

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e*x^2]]*(a + b*ArcSin[c*x])^(n + 1), x] /; FreeQ[{a, b, c, d, e, n}, x
] && EqQ[c^2*d + e, 0] && NeQ[n, -1]

5153. Int[((a_.) + ArcCos[(c_.)*(x_)])*(b_.))^(n_.)/Sqrt[(d_) + (e_.)*(x_)^2]
, x_Symbol] := Simp[(-(b*c*(n + 1))^(n-1))*Simp[Sqrt[1 - c^2*x^2]/Sqrt[
d + e*x^2]]*(a + b*ArcCos[c*x])^(n + 1), x] /; FreeQ[{a, b, c, d, e, n
}, x] && EqQ[c^2*d + e, 0] && NeQ[n, -1]

5154. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))*((d_) + (e_.)*(x_)^2)^(p_.), x_
Symbol] := With[{u = IntHide[(d + e*x^2)^p, x]}, Simp[(a + b*ArcSin[c*
x]) u, x] - Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 - c^2*x^2], x]
, x], x]] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p,
0]

5155. Int[((a_.) + ArcCos[(c_.)*(x_)])*(b_.))*((d_) + (e_.)*(x_)^2)^(p_.), x_
Symbol] := With[{u = IntHide[(d + e*x^2)^p, x]}, Simp[(a + b*ArcCos[c*
x]) u, x] + Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 - c^2*x^2], x]
, x], x]] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p,
0]

5156. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))^(n_.)*Sqrt[(d_) + (e_.)*(x_)^2]
, x_Symbol] := Simp[x*Sqrt[d + e*x^2]*((a + b*ArcSin[c*x])^n/2), x] +
(Simp[(1/2)*Simp[Sqrt[d + e*x^2]/Sqrt[1 - c^2*x^2]] Int[(a + b*ArcSi
n[c*x])^n/Sqrt[1 - c^2*x^2], x], x] - Simp[b*c*(n/2)*Simp[Sqrt[d + e*x
^2]/Sqrt[1 - c^2*x^2]] Int[x*(a + b*ArcSin[c*x])^(n - 1), x], x)) /;
FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0]

5157. Int[((a_.) + ArcCos[(c_.)*(x_)])*(b_.))^(n_.)*Sqrt[(d_) + (e_.)*(x_)^2]
, x_Symbol] := Simp[x*Sqrt[d + e*x^2]*((a + b*ArcCos[c*x])^n/2), x] +
(Simp[(1/2)*Simp[Sqrt[d + e*x^2]/Sqrt[1 - c^2*x^2]] Int[(a + b*ArcCo
s[c*x])^n/Sqrt[1 - c^2*x^2], x], x] + Simp[b*c*(n/2)*Simp[Sqrt[d + e*x
^2]/Sqrt[1 - c^2*x^2]] Int[x*(a + b*ArcCos[c*x])^(n - 1), x], x)) /;
FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0]

5158. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_
.), x_Symbol] := Simp[x*(d + e*x^2)^p*((a + b*ArcSin[c*x])^n/(2*p + 1)
), x] + (Simp[2*d*(p/(2*p + 1)) Int[(d + e*x^2)^(p - 1)*(a + b*ArcSi

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- $$\text{Int}[c^2 x^n, x] - \text{Simp}[b^2 c^2 (n/(2p+1)) \text{Simp}[(d+ex^2)^p/(1-c^2 x^2)^p] \text{Int}[x(1-c^2 x^2)^{p-1/2}(a+b\text{ArcSin}[cx])^{n-1}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{GtQ}[p, 0]$$
5159.
$$\text{Int}[(a + \text{ArcCos}[c(x)](b))^n ((d) + (e)(x)^2)^p, x_Symbol] \rightarrow \text{Simp}[x(d+ex^2)^p (a+b\text{ArcCos}[cx])^n / (2p+1), x] + (\text{Simp}[2d(p/(2p+1)) \text{Int}[(d+ex^2)^{p-1}(a+b\text{ArcCos}[cx])^n, x], x] + \text{Simp}[b^2 c^2 (n/(2p+1)) \text{Simp}[(d+ex^2)^p/(1-c^2 x^2)^p] \text{Int}[x(1-c^2 x^2)^{p-1/2}(a+b\text{ArcCos}[cx])^{n-1}, x], x]) /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{GtQ}[p, 0]$$
5160.
$$\text{Int}[(a + \text{ArcSin}[c(x)](b))^n / ((d) + (e)(x)^2)^{3/2}, x_Symbol] \rightarrow \text{Simp}[x(a+b\text{ArcSin}[cx])^n / (d\sqrt{d+ex^2}), x] - \text{Simp}[b^2 c^2 (n/d) \text{Simp}[\sqrt{1-c^2 x^2} / \sqrt{d+ex^2}] \text{Int}[x(a+b\text{ArcSin}[cx])^{n-1} / (1-c^2 x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{GtQ}[n, 0]$$
5161.
$$\text{Int}[(a + \text{ArcCos}[c(x)](b))^n / ((d) + (e)(x)^2)^{3/2}, x_Symbol] \rightarrow \text{Simp}[x(a+b\text{ArcCos}[cx])^n / (d\sqrt{d+ex^2}), x] + \text{Simp}[b^2 c^2 (n/d) \text{Simp}[\sqrt{1-c^2 x^2} / \sqrt{d+ex^2}] \text{Int}[x(a+b\text{ArcCos}[cx])^{n-1} / (1-c^2 x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{GtQ}[n, 0]$$
5162.
$$\text{Int}[(a + \text{ArcSin}[c(x)](b))^n ((d) + (e)(x)^2)^p, x_Symbol] \rightarrow \text{Simp}[(-x)(d+ex^2)^{p+1} (a+b\text{ArcSin}[cx])^n / (2d(p+1)), x] + (\text{Simp}[(2p+3)/(2d(p+1)) \text{Int}[(d+ex^2)^{p+1} (a+b\text{ArcSin}[cx])^n, x], x] + \text{Simp}[b^2 c^2 (n/(2(p+1))) \text{Simp}[(d+ex^2)^p/(1-c^2 x^2)^p] \text{Int}[x(1-c^2 x^2)^{p+1/2} (a+b\text{ArcSin}[cx])^{n-1}, x], x]) /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -3/2]$$
5163.
$$\text{Int}[(a + \text{ArcCos}[c(x)](b))^n ((d) + (e)(x)^2)^p, x_Symbol] \rightarrow \text{Simp}[(-x)(d+ex^2)^{p+1} (a+b\text{ArcCos}[cx])^n / (2d(p+1)), x] + (\text{Simp}[(2p+3)/(2d(p+1)) \text{Int}[(d+ex^2)^{p+1} (a+b\text{ArcCos}[cx])^n, x], x] - \text{Simp}[b^2 c^2 (n/(2(p+1))) \text{Simp}[(d$$

- $$+ e*x^2)^p/(1 - c^2*x^2)^p \quad \text{Int}[x*(1 - c^2*x^2)^{(p + 1/2)}*(a + b*ArcCos[c*x])^{(n - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -3/2]$$
5164. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))^{(n_.)}/((d_.) + (e_.)*(x_.)^2), x_Symbol] \rightarrow \text{Simp}[1/(c*d) \quad \text{Subst}[\text{Int}[(a + b*x)^n*\text{Sec}[x], x], x, \text{ArcSin}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0]$
5165. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))^{(n_.)}/((d_.) + (e_.)*(x_.)^2), x_Symbol] \rightarrow \text{Simp}[-(c*d)^{-1} \quad \text{Subst}[\text{Int}[(a + b*x)^n*\text{Csc}[x], x], x, \text{ArcCos}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0]$
5166. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))^{(n_.)*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 - c^2*x^2]*(d + e*x^2)^p*((a + b*\text{ArcSin}[c*x])^{(n + 1)}/(b*c*(n + 1))), x] + \text{Simp}[c*((2*p + 1)/(b*(n + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p \quad \text{Int}[x*(1 - c^2*x^2)^{(p - 1/2)}*(a + b*ArcSin[c*x])^{(n + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n, -1]$
5167. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))^{(n_.)*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-\text{Sqrt}[1 - c^2*x^2])*(d + e*x^2)^p*((a + b*\text{ArcCos}[c*x])^{(n + 1)}/(b*c*(n + 1))), x] - \text{Simp}[c*((2*p + 1)/(b*(n + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p \quad \text{Int}[x*(1 - c^2*x^2)^{(p - 1/2)}*(a + b*ArcCos[c*x])^{(n + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n, -1]$
5168. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))^{(n_.)*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(1/(b*c))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p \quad \text{Subst}[\text{Int}[x^n*\text{Cos}[-a/b + x/b]^{(2*p + 1)}, x], x, a + b*\text{ArcSin}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[2*p, 0]$
5169. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))^{(n_.)*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-b*c)^{-1})*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p \quad \text{Subst}[\text{Int}[x^n*\text{Sin}[-a/b + x/b]^{(2*p + 1)}, x], x, a + b*\text{ArcCos}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[2*p,$

0]

5170. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)]*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSin}[c*x]) u, x] - \text{Simp}[b*c \text{ Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[1 - c^2*x^2], x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[c^2*d + e, 0] \&\& (\text{IGtQ}[p, 0] \parallel \text{ILtQ}[p + 1/2, 0])$

5171. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_)]*(b_.)]*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcCos}[c*x]) u, x] + \text{Simp}[b*c \text{ Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[1 - c^2*x^2], x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{NeQ}[c^2*d + e, 0] \&\& (\text{IGtQ}[p, 0] \parallel \text{ILtQ}[p + 1/2, 0])$

5172. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcSin}[c*x])^n, (d + e*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{NeQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p] \&\& (\text{GtQ}[p, 0] \parallel \text{IGtQ}[n, 0])$

5173. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCos}[c*x])^n, (d + e*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{NeQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p] \&\& (\text{GtQ}[p, 0] \parallel \text{IGtQ}[n, 0])$

5174. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(d + e*x^2)^p*(a + b*\text{ArcSin}[c*x])^n, x] /; \text{FreeQ}[\{a, b, c, d, e, n, p\}, x]$

5175. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(d + e*x^2)^p*(a + b*\text{ArcCos}[c*x])^n, x] /; \text{FreeQ}[\{a, b, c, d, e, n, p\}, x]$

5176. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_))^{(p_.)}*((f_.) + (g_.)*(x_))^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[(-d^2)*(g/e)^q \text{ Int}[(d + e*x)^{(p - q)}*(1 - c^2*x^2)^q*(a + b*\text{ArcSin}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n\}, x] \&\& \text{EqQ}[e*f + d*g, 0] \&\& \text{EqQ}[c^2*d^2 - e^2,$

- , 0] && HalfIntegerQ[p, q] && GeQ[p - q, 0] && GtQ[d, 0] && LtQ[g/e, 0
]
5177. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*((d_) + (e_.)*(x_))^(p_)*
((f_) + (g_.)*(x_))^(q_), x_Symbol] := Simp[(-d^2)*(g/e)^q Int[(d
+ e*x)^(p - q)*(1 - c^2*x^2)^q*(a + b*ArcCos[c*x])^n, x], x] /; FreeQ[
{a, b, c, d, e, f, g, n}, x] && EqQ[e*f + d*g, 0] && EqQ[c^2*d^2 - e^2
, 0] && HalfIntegerQ[p, q] && GeQ[p - q, 0] && GtQ[d, 0] && LtQ[g/e, 0
]
5178. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^ (n_.)*((d_) + (e_.)*(x_))^(p_)*
((f_) + (g_.)*(x_))^(q_), x_Symbol] := Simp[(d + e*x)^q*((f + g*x)^q/(
1 - c^2*x^2)^q) Int[(d + e*x)^(p - q)*(1 - c^2*x^2)^q*(a + b*ArcSin[
c*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, n}, x] && EqQ[e*f + d*g
, 0] && EqQ[c^2*d^2 - e^2, 0] && HalfIntegerQ[p, q] && GeQ[p - q, 0]
5179. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*((d_) + (e_.)*(x_))^(p_)*
((f_) + (g_.)*(x_))^(q_), x_Symbol] := Simp[(d + e*x)^q*((f + g*x)^q/(
1 - c^2*x^2)^q) Int[(d + e*x)^(p - q)*(1 - c^2*x^2)^q*(a + b*ArcCos[
c*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, n}, x] && EqQ[e*f + d*g
, 0] && EqQ[c^2*d^2 - e^2, 0] && HalfIntegerQ[p, q] && GeQ[p - q, 0]
5180. Int[(((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^ (n_.)*(x_))/((d_) + (e_.)*(x_)
^2), x_Symbol] := Simp[-e^(-1) Subst[Int[(a + b*x)^n*Tan[x], x], x,
ArcSin[c*x]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] &&
IGtQ[n, 0]
5181. Int[(((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*(x_))/((d_) + (e_.)*(x_)
^2), x_Symbol] := Simp[1/e Subst[Int[(a + b*x)^n*Cot[x], x], x, ArcC
os[c*x]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ
[n, 0]
5182. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^ (n_.)*(x_)*((d_) + (e_.)*(x_)^2
)^(p_.), x_Symbol] := Simp[(d + e*x^2)^(p + 1)*((a + b*ArcSin[c*x])^n/
(2*e*(p + 1))), x] + Simp[b*(n/(2*c*(p + 1)))*Simp[(d + e*x^2)^p/(1 -
c^2*x^2)^p] Int[(1 - c^2*x^2)^(p + 1/2)*(a + b*ArcSin[c*x])^(n - 1),
x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[c^2*d + e, 0] && GtQ[n,

- 0] && NeQ[p, -1]
5183. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)(x_)]*(b_.)]^{(n_.)}(x_)*((d_) + (e_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(p + 1)}*((a + b*\text{ArcCos}[c*x])^n/(2*e*(p + 1))), x] - \text{Simp}[b*(n/(2*c*(p + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \text{Int}[(1 - c^2*x^2)^{(p + 1/2)}*(a + b*\text{ArcCos}[c*x])^{(n - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[p, -1]$
5184. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)(x_)]*(b_.)]^{(n_.)}/((x_)*((d_) + (e_.)(x_)^2)), x_Symbol] \rightarrow \text{Simp}[1/d \text{Subst}[\text{Int}[(a + b*x)^n/(\text{Cos}[x]*\text{Sin}[x]), x], x, \text{ArcSin}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0]$
5185. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)(x_)]*(b_.)]^{(n_.)}/((x_)*((d_) + (e_.)(x_)^2)), x_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{Subst}[\text{Int}[(a + b*x)^n/(\text{Cos}[x]*\text{Sin}[x]), x], x, \text{ArcCos}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0]$
5186. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)(x_)]*(b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d_) + (e_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m + 1)}*(d + e*x^2)^{(p + 1)}*((a + b*\text{ArcSin}[c*x])^n/(d*f*(m + 1))), x] - \text{Simp}[b*c*(n/(f*(m + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m + 1)}*(1 - c^2*x^2)^{(p + 1/2)}*(a + b*\text{ArcSin}[c*x])^{(n - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{EqQ}[m + 2*p + 3, 0] \&\& \text{NeQ}[m, -1]$
5187. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)(x_)]*(b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d_) + (e_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m + 1)}*(d + e*x^2)^{(p + 1)}*((a + b*\text{ArcCos}[c*x])^n/(d*f*(m + 1))), x] + \text{Simp}[b*c*(n/(f*(m + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m + 1)}*(1 - c^2*x^2)^{(p + 1/2)}*(a + b*\text{ArcCos}[c*x])^{(n - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{EqQ}[m + 2*p + 3, 0] \&\& \text{NeQ}[m, -1]$
5188. $\text{Int}[(((a_.) + \text{ArcSin}[(c_.)(x_)]*(b_.))*((d_) + (e_.)(x_)^2)^{(p_.)})/(x_), x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^p*((a + b*\text{ArcSin}[c*x])/(2*p)), x] +$

- (Simp[d Int[(d + e*x^2)^(p - 1)*((a + b*ArcSin[c*x])/x), x], x] - Simp[b*c*(d^p/(2*p)) Int[(1 - c^2*x^2)^(p - 1/2), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0]
5189. Int[(((a_.) + ArcCos[(c_.)*(x_)])*(b_.))*((d_) + (e_.)*(x_)^2)^(p_.)/(x_), x_Symbol] := Simp[(d + e*x^2)^p*((a + b*ArcCos[c*x])/(2*p)), x] + (Simp[d Int[(d + e*x^2)^(p - 1)*((a + b*ArcCos[c*x])/x), x], x] + Simp[b*c*(d^p/(2*p)) Int[(1 - c^2*x^2)^(p - 1/2), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0]
5190. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))*((f_.)*(x_)^(m_))*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(f*x)^(m + 1)*(d + e*x^2)^p*((a + b*ArcSin[c*x])/(f*(m + 1))), x] + (-Simp[b*c*(d^p/(f*(m + 1))) Int[(f*x)^(m + 1)*(1 - c^2*x^2)^(p - 1/2), x], x] - Simp[2*e*(p/(f^2*(m + 1))) Int[(f*x)^(m + 2)*(d + e*x^2)^(p - 1)*(a + b*ArcSin[c*x]), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && ILtQ[(m + 1)/2, 0]
5191. Int[((a_.) + ArcCos[(c_.)*(x_)])*(b_.))*((f_.)*(x_)^(m_))*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(f*x)^(m + 1)*(d + e*x^2)^p*((a + b*ArcCos[c*x])/(f*(m + 1))), x] + (Simp[b*c*(d^p/(f*(m + 1))) Int[(f*x)^(m + 1)*(1 - c^2*x^2)^(p - 1/2), x], x] - Simp[2*e*(p/(f^2*(m + 1))) Int[(f*x)^(m + 2)*(d + e*x^2)^(p - 1)*(a + b*ArcCos[c*x]), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && ILtQ[(m + 1)/2, 0]
5192. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))*((f_.)*(x_)^(m_))*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x^2)^p, x]}, Simp[(a + b*ArcSin[c*x]) u, x] - Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 - c^2*x^2], x], x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0]
5193. Int[((a_.) + ArcCos[(c_.)*(x_)])*(b_.))*((f_.)*(x_)^(m_))*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x^2)^p, x]}, Simp[(a + b*ArcCos[c*x]) u, x] + Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 - c^2*x^2], x], x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0]

5194. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)(x_.)](b_.)](x_.)^{(m_.)}((d_.) + (e_.)(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[x^m(d + e x^2)^p, x]\}, \text{Simp}[(a + b \text{ArcSin}[c x]) u, x] - \text{Simp}[b c \text{Simp}[\text{Sqrt}[d + e x^2]/\text{Sqrt}[1 - c^2 x^2]] \text{Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[d + e x^2], x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{IntegerQ}[p - 1/2] \&\& \text{NeQ}[p, -2^{(-1)}] \&\& (\text{IGtQ}[(m + 1)/2, 0] \parallel \text{ILtQ}[(m + 2 p + 3)/2, 0])$
5195. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)(x_.)](b_.)](x_.)^{(m_.)}((d_.) + (e_.)(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[x^m(d + e x^2)^p, x]\}, \text{Simp}[(a + b \text{ArcCos}[c x]) u, x] + \text{Simp}[b c \text{Simp}[\text{Sqrt}[d + e x^2]/\text{Sqrt}[1 - c^2 x^2]] \text{Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[d + e x^2], x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{IntegerQ}[p - 1/2] \&\& \text{NeQ}[p, -2^{(-1)}] \&\& (\text{IGtQ}[(m + 1)/2, 0] \parallel \text{ILtQ}[(m + 2 p + 3)/2, 0])$
5196. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)(x_.)](b_.)]^{(n_.)}((f_.)(x_.))^{(m_.)} \text{Sqrt}[(d_.) + (e_.)(x_.)^2], x_Symbol] \rightarrow \text{Simp}[(f x)^{(m + 1)} \text{Sqrt}[d + e x^2] ((a + b \text{ArcSin}[c x])^n / (f (m + 1))), x] + (-\text{Simp}[b c (n / (f (m + 1))) \text{Simp}[\text{Sqrt}[d + e x^2]/\text{Sqrt}[1 - c^2 x^2]] \text{Int}[(f x)^{(m + 1)} (a + b \text{ArcSin}[c x])^{(n - 1)}, x], x] + \text{Simp}[(c^2 / (f^2 (m + 1))) \text{Simp}[\text{Sqrt}[d + e x^2]/\text{Sqrt}[1 - c^2 x^2]] \text{Int}[(f x)^{(m + 2)} ((a + b \text{ArcSin}[c x])^n / \text{Sqrt}[1 - c^2 x^2]), x], x)] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[m, -1]$
5197. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)(x_.)](b_.)]^{(n_.)}((f_.)(x_.))^{(m_.)} \text{Sqrt}[(d_.) + (e_.)(x_.)^2], x_Symbol] \rightarrow \text{Simp}[(f x)^{(m + 1)} \text{Sqrt}[d + e x^2] ((a + b \text{ArcCos}[c x])^n / (f (m + 1))), x] + (\text{Simp}[b c (n / (f (m + 1))) \text{Simp}[\text{Sqrt}[d + e x^2]/\text{Sqrt}[1 - c^2 x^2]] \text{Int}[(f x)^{(m + 1)} (a + b \text{ArcCos}[c x])^{(n - 1)}, x], x] + \text{Simp}[(c^2 / (f^2 (m + 1))) \text{Simp}[\text{Sqrt}[d + e x^2]/\text{Sqrt}[1 - c^2 x^2]] \text{Int}[(f x)^{(m + 2)} ((a + b \text{ArcCos}[c x])^n / \text{Sqrt}[1 - c^2 x^2]), x], x)] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[c^2 d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[m, -1]$
5198. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)(x_.)](b_.)]^{(n_.)}((f_.)(x_.))^{(m_.)} \text{Sqrt}[(d_.) + (e_.)(x_.)^2], x_Symbol] \rightarrow \text{Simp}[(f x)^{(m + 1)} \text{Sqrt}[d + e x^2] ((a + b \text{ArcSin}[c x])^n / (f (m + 2))), x] + (\text{Simp}[(1 / (m + 2)) \text{Simp}[\text{Sqrt}[d + e x^2]/\text{Sqrt}[1 - c^2 x^2]] \text{Int}[(f x)^m ((a + b \text{ArcSin}[c x])^n / \text{Sqrt}[$

- $1 - c^2x^2$), x], x] - Simp[b*c*(n/(f*(m + 2)))*Simp[Sqrt[d + e*x^2]/Sqrt[1 - c^2*x^2]] Int[(f*x)^(m + 1)*(a + b*ArcSin[c*x])^(n - 1), x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && (IGtQ[m, -2] || EqQ[n, 1])
5199. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_)*Sqrt[(d_) + (e_.)*(x_)^2], x_Symbol] := Simp[(f*x)^(m + 1)*Sqrt[d + e*x^2]*((a + b*ArcCos[c*x])^n/(f*(m + 2))), x] + (Simp[(1/(m + 2))*Simp[Sqrt[d + e*x^2]/Sqrt[1 - c^2*x^2]] Int[(f*x)^m*((a + b*ArcCos[c*x])^n/Sqrt[1 - c^2*x^2]), x], x] + Simp[b*c*(n/(f*(m + 2)))*Simp[Sqrt[d + e*x^2]/Sqrt[1 - c^2*x^2]] Int[(f*x)^(m + 1)*(a + b*ArcCos[c*x])^(n - 1), x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && (IGtQ[m, -2] || EqQ[n, 1])
5200. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(f*x)^(m + 1)*(d + e*x^2)^p*((a + b*ArcSin[c*x])^n/(f*(m + 1))), x] + (-Simp[2*e*(p/(f^2*(m + 1)))] Int[(f*x)^(m + 2)*(d + e*x^2)^(p - 1)*(a + b*ArcSin[c*x])^n, x], x] - Simp[b*c*(n/(f*(m + 1)))*Simp[(d + e*x^2)^p/(1 - c^2*x^2)^p] Int[(f*x)^(m + 1)*(1 - c^2*x^2)^(p - 1/2)*(a + b*ArcSin[c*x])^(n - 1), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && GtQ[p, 0] && LtQ[m, -1]
5201. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(f*x)^(m + 1)*(d + e*x^2)^p*((a + b*ArcCos[c*x])^n/(f*(m + 1))), x] + (-Simp[2*e*(p/(f^2*(m + 1)))] Int[(f*x)^(m + 2)*(d + e*x^2)^(p - 1)*(a + b*ArcCos[c*x])^n, x], x] + Simp[b*c*(n/(f*(m + 1)))*Simp[(d + e*x^2)^p/(1 - c^2*x^2)^p] Int[(f*x)^(m + 1)*(1 - c^2*x^2)^(p - 1/2)*(a + b*ArcCos[c*x])^(n - 1), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && GtQ[p, 0] && LtQ[m, -1]
5202. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(f*x)^(m + 1)*(d + e*x^2)^p*((a + b*ArcSin[c*x])^n/(f*(m + 2*p + 1))), x] + (Simp[2*d*(p/(m + 2*p + 1))] Int[(f*x)^m*(d + e*x^2)^(p - 1)*(a + b*ArcSin[c*x])^n, x], x] - Simp[b*c*(n/(f*(m + 2*p + 1)))*Simp[(d + e*x^2)^p/(1 - c^2*x^2)^p] I

- $$\text{nt}[(f*x)^{(m+1)}*(1 - c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSin}[c*x])^{(n-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{!LtQ}[m, -1]$$
5203.
$$\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \text{:>} \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^p*((a + b*\text{ArcCos}[c*x])^n/(f*(m + 2*p + 1))), x] + (\text{Simp}[2*d*(p/(m + 2*p + 1)) \ \text{Int}[(f*x)^m*(d + e*x^2)^{(p-1)}*(a + b*\text{ArcCos}[c*x])^n, x], x] + \text{Simp}[b*c*(n/(f*(m + 2*p + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \ \text{Int}[(f*x)^{(m+1)}*(1 - c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcCos}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{!LtQ}[m, -1]$$
5204.
$$\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \text{:>} \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^{(p+1)}*((a + b*\text{ArcSin}[c*x])^n/(d*f*(m + 1))), x] + (\text{Simp}[c^2*((m + 2*p + 3)/(f^2*(m + 1))) \ \text{Int}[(f*x)^{(m+2)}*(d + e*x^2)^p*(a + b*\text{ArcSin}[c*x])^n, x], x] - \text{Simp}[b*c*(n/(f*(m + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \ \text{Int}[(f*x)^{(m+1)}*(1 - c^2*x^2)^{(p+1/2)}*(a + b*\text{ArcSin}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{ILtQ}[m, -1]$$
5205.
$$\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \text{:>} \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^{(p+1)}*((a + b*\text{ArcCos}[c*x])^n/(d*f*(m + 1))), x] + (\text{Simp}[c^2*((m + 2*p + 3)/(f^2*(m + 1))) \ \text{Int}[(f*x)^{(m+2)}*(d + e*x^2)^p*(a + b*\text{ArcCos}[c*x])^n, x], x] + \text{Simp}[b*c*(n/(f*(m + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \ \text{Int}[(f*x)^{(m+1)}*(1 - c^2*x^2)^{(p+1/2)}*(a + b*\text{ArcCos}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{ILtQ}[m, -1]$$
5206.
$$\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \text{:>} \text{Simp}[f*(f*x)^{(m-1)}*(d + e*x^2)^{(p+1)}*((a + b*\text{ArcSin}[c*x])^n/(2*e*(p + 1))), x] + (-\text{Simp}[f^2*((m - 1)/(2*e*(p + 1))) \ \text{Int}[(f*x)^{(m-2)}*(d + e*x^2)^{(p+1)}*(a + b*\text{ArcSin}[c*x])^n, x], x] + \text{Simp}[b*f*(n/(2*c*(p + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \ \text{Int}[(f*x)^{(m-1)}*(1 - c^2*x^2)^{(p+1/2)}*(a + b*\text{ArcSin}[c*x$$

])^(n - 1), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && LtQ[p, -1] && IGtQ[m, 1]

5207. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_), x_Symbol] :> Simp[f*(f*x)^(m - 1)*(d + e*x^2)^(p + 1)*((a + b*ArcCos[c*x])^n/(2*e*(p + 1))), x] + (-Simp[f^2*((m - 1)/(2*e*(p + 1))) Int[(f*x)^(m - 2)*(d + e*x^2)^(p + 1)*(a + b*ArcCos[c*x])^n, x], x] - Simp[b*f*(n/(2*c*(p + 1)))*Simp[(d + e*x^2)^p/(1 - c^2*x^2)^p] Int[(f*x)^(m - 1)*(1 - c^2*x^2)^(p + 1/2)*(a + b*ArcCos[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && LtQ[p, -1] && IGtQ[m, 1]

5208. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_), x_Symbol] :> Simp[(-f*x)^(m + 1)*(d + e*x^2)^(p + 1)*((a + b*ArcSin[c*x])^n/(2*d*f*(p + 1))), x] + (Simp[(m + 2*p + 3)/(2*d*(p + 1)) Int[(f*x)^m*(d + e*x^2)^(p + 1)*(a + b*ArcSin[c*x])^n, x], x] + Simp[b*c*(n/(2*f*(p + 1)))*Simp[(d + e*x^2)^p/(1 - c^2*x^2)^p] Int[(f*x)^(m + 1)*(1 - c^2*x^2)^(p + 1/2)*(a + b*ArcSin[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && LtQ[p, -1] && !GtQ[m, 1] && (IntegerQ[m] || IntegerQ[p] || EqQ[n, 1])

5209. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_), x_Symbol] :> Simp[(-f*x)^(m + 1)*(d + e*x^2)^(p + 1)*((a + b*ArcCos[c*x])^n/(2*d*f*(p + 1))), x] + (Simp[(m + 2*p + 3)/(2*d*(p + 1)) Int[(f*x)^m*(d + e*x^2)^(p + 1)*(a + b*ArcCos[c*x])^n, x], x] - Simp[b*c*(n/(2*f*(p + 1)))*Simp[(d + e*x^2)^p/(1 - c^2*x^2)^p] Int[(f*x)^(m + 1)*(1 - c^2*x^2)^(p + 1/2)*(a + b*ArcCos[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && LtQ[p, -1] && !GtQ[m, 1] && (IntegerQ[m] || IntegerQ[p] || EqQ[n, 1])

5210. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_), x_Symbol] :> Simp[f*(f*x)^(m - 1)*(d + e*x^2)^(p + 1)*((a + b*ArcSin[c*x])^n/(e*(m + 2*p + 1))), x] + (Simp[f^2*((m - 1)/(c^2*(m + 2*p + 1))) Int[(f*x)^(m - 2)*(d + e*x^2)^p*(a + b*ArcSin[c*x])^n, x], x] + Simp[b*f*(n/(c*(m + 2*p + 1)))*Simp[(d + e*x^2)^p/(

- $1 - c^2x^2)^p \text{Int}[(f*x)^{(m-1)}*(1 - c^2x^2)^{(p+1/2)}*(a + b*\text{ArcSin}[c*x])^{(n-1)}, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{IGtQ}[m, 1] \&\& \text{NeQ}[m + 2*p + 1, 0]$
5211. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[f*(f*x)^{(m-1)}*(d + e*x^2)^{(p+1)}*((a + b*\text{ArcCos}[c*x])^n/(e*(m + 2*p + 1))), x] + (\text{Simp}[f^2*((m-1)/(c^2*(m + 2*p + 1))) \text{Int}[(f*x)^{(m-2)}*(d + e*x^2)^p*(a + b*\text{ArcCos}[c*x])^n, x], x] - \text{Simp}[b*f*(n/(c*(m + 2*p + 1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)}*(1 - c^2*x^2)^{(p+1/2)}*(a + b*\text{ArcCos}[c*x])^{(n-1)}, x], x]) /;$
 $\text{FreeQ}\{a, b, c, d, e, f, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{IGtQ}[m, 1] \&\& \text{NeQ}[m + 2*p + 1, 0]$
5212. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^m*\text{Sqrt}[1 - c^2*x^2]*(d + e*x^2)^p*((a + b*\text{ArcSin}[c*x])^{(n+1)}/(b*c*(n+1))), x] - \text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)}*(1 - c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSin}[c*x])^{(n+1)}, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, m, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n, -1] \&\& \text{EqQ}[m + 2*p + 1, 0]$
5213. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-f*x)^m*\text{Sqrt}[1 - c^2*x^2]*(d + e*x^2)^p*((a + b*\text{ArcCos}[c*x])^{(n+1)}/(b*c*(n+1))), x] + \text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)}*(1 - c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcCos}[c*x])^{(n+1)}, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, e, f, m, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n, -1] \&\& \text{EqQ}[m + 2*p + 1, 0]$
5214. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^m*\text{Sqrt}[1 - c^2*x^2]*(d + e*x^2)^p*((a + b*\text{ArcSin}[c*x])^{(n+1)}/(b*c*(n+1))), x] + (-\text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)}*(1 - c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSin}[c*x])^{(n+1)}, x], x] + \text{Simp}[c*((m + 2*p + 1)/(b*f*(n+1)))*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m+1)}*(1 - c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSin}[c*x])^{(n+1)}, x], x]) /;$
 $\text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n,$

- , -1] && IGtQ[2*p, 0] && NeQ[m + 2*p + 1, 0] && IGtQ[m, -3]
5215. $\text{Int}[\left((a_{\cdot}) + \text{ArcCos}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(n_{\cdot})} \left((f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{(p_{\cdot})}, x_{\text{Symbol}}] := \text{Simp}[(-f*x)^m * \text{Sqrt}[1 - c^2*x^2] * (d + e*x^2)^p * (a + b*\text{ArcCos}[c*x])^{(n+1)} / (b*c*(n+1)), x] + (\text{Simp}[f * (m/(b*c*(n+1))) * \text{Simp}[(d + e*x^2)^p / (1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)} * (1 - c^2*x^2)^{(p-1/2)} * (a + b*\text{ArcCos}[c*x])^{(n+1)}, x], x] - \text{Simp}[c * ((m + 2*p + 1)/(b*f*(n+1))) * \text{Simp}[(d + e*x^2)^p / (1 - c^2*x^2)^p] \text{Int}[(f*x)^{(m+1)} * (1 - c^2*x^2)^{(p-1/2)} * (a + b*\text{ArcCos}[c*x])^{(n+1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n, -1] \&\& \text{IGtQ}[2*p, 0] \&\& \text{NeQ}[m + 2*p + 1, 0] \&\& \text{IGtQ}[m, -3]$
5216. $\text{Int}[\left((a_{\cdot}) + \text{ArcSin}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(n_{\cdot})} \left((f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} / \text{Sqrt}[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2], x_{\text{Symbol}}] := \text{Simp}[f * (f*x)^{(m-1)} * \text{Sqrt}[d + e*x^2] * (a + b*\text{ArcSin}[c*x])^n / (e*m), x] + (\text{Simp}[f^2 * ((m-1)/(c^2*m)) \text{Int}[\left((f*x)^{(m-2)} * (a + b*\text{ArcSin}[c*x])^n / \text{Sqrt}[d + e*x^2], x\right), x] + \text{Simp}[b*f * (n/(c*m)) * \text{Simp}[\text{Sqrt}[1 - c^2*x^2] / \text{Sqrt}[d + e*x^2]] \text{Int}[(f*x)^{(m-1)} * (a + b*\text{ArcSin}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{IGtQ}[m, 1]$
5217. $\text{Int}[\left((a_{\cdot}) + \text{ArcCos}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(n_{\cdot})} \left((f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} / \text{Sqrt}[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2], x_{\text{Symbol}}] := \text{Simp}[f * (f*x)^{(m-1)} * \text{Sqrt}[d + e*x^2] * (a + b*\text{ArcCos}[c*x])^n / (e*m), x] + (\text{Simp}[f^2 * ((m-1)/(c^2*m)) \text{Int}[\left((f*x)^{(m-2)} * (a + b*\text{ArcCos}[c*x])^n / \text{Sqrt}[d + e*x^2], x\right), x] - \text{Simp}[b*f * (n/(c*m)) * \text{Simp}[\text{Sqrt}[1 - c^2*x^2] / \text{Sqrt}[d + e*x^2]] \text{Int}[(f*x)^{(m-1)} * (a + b*\text{ArcCos}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{IGtQ}[m, 1]$
5218. $\text{Int}[\left((a_{\cdot}) + \text{ArcSin}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(n_{\cdot})} (x_{\cdot})^{(m_{\cdot})} / \text{Sqrt}[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2], x_{\text{Symbol}}] := \text{Simp}[(1/c^{(m+1)}) * \text{Simp}[\text{Sqrt}[1 - c^2*x^2] / \text{Sqrt}[d + e*x^2]] \text{Subst}[\text{Int}[(a + b*x)^n * \text{Sin}[x]^m, x], x, \text{ArcSin}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m]$
5219. $\text{Int}[\left((a_{\cdot}) + \text{ArcCos}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(n_{\cdot})} (x_{\cdot})^{(m_{\cdot})} / \text{Sqrt}[(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2], x_{\text{Symbol}}] := \text{Simp}[(-c^{(m+1)})^{(-1)} * \text{Simp}[\text{Sqrt}[1 - c^2*x^2] / \text{Sqrt}[d + e*x^2]] \text{Subst}[\text{Int}[(a + b*x)^n * \text{Cos}[x]^m, x], x, \text{ArcCos}[$

- $c*x]], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[m]$
5220. $\text{Int}[(((a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)*((f_.)*(x_))^m)/\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(f*x)^{m+1}/(f*(m+1))]*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]]*(a + b*\text{ArcSin}[c*x])*Hypergeometric2F1[1/2, (1 + m)/2, (3 + m)/2, c^2*x^2], x] - \text{Simp}[b*c*((f*x)^{m+2}/(f^2*(m+1)*(m+2)))*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]]*HypergeometricPFQ[\{1, 1 + m/2, 1 + m/2\}, \{3/2 + m/2, 2 + m/2\}, c^2*x^2], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ !\text{IntegerQ}[m]$
5221. $\text{Int}[(((a_.) + \text{ArcCos}[(c_.)*(x_)]*(b_.)*((f_.)*(x_))^m)/\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(f*x)^{m+1}/(f*(m+1))]*(a + b*\text{ArcCos}[c*x])*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]]*Hypergeometric2F1[1/2, (1 + m)/2, (3 + m)/2, c^2*x^2], x] + \text{Simp}[b*c*((f*x)^{m+2}/(f^2*(m+1)*(m+2)))*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]]*HypergeometricPFQ[\{1, 1 + m/2, 1 + m/2\}, \{3/2 + m/2, 2 + m/2\}, c^2*x^2], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ !\text{IntegerQ}[m]$
5222. $\text{Int}[(((a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)^n*((f_.)*(x_))^m)/\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(f*x)^m/(b*c*(n+1))]*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]]*(a + b*\text{ArcSin}[c*x])^{n+1}, x] - \text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]] \ \text{Int}[(f*x)^{m-1}*(a + b*\text{ArcSin}[c*x])^{n+1}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{LtQ}[n, -1]$
5223. $\text{Int}[(((a_.) + \text{ArcCos}[(c_.)*(x_)]*(b_.)^n*((f_.)*(x_))^m)/\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(-(f*x)^m/(b*c*(n+1)))*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]]*(a + b*\text{ArcCos}[c*x])^{n+1}, x] + \text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]] \ \text{Int}[(f*x)^{m-1}*(a + b*\text{ArcCos}[c*x])^{n+1}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{LtQ}[n, -1]$
5224. $\text{Int}[((a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)^n*(x_)^m*((d_.) + (e_.)*(x_)^2)^p], x_Symbol] \rightarrow \text{Simp}[(1/(b*c^{m+1}))]*\text{Simp}[(d + e*x^2)^p/(1 - c^2*x^2)^p] \ \text{Subst}[\text{Int}[x^n*\text{Sin}[-a/b + x/b]^m*\text{Cos}[-a/b + x/b]^{2*p+1}, x], x, a + b*\text{ArcSin}[c*x]], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x]$

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&& EqQ[c^2*d + e, 0] && IGtQ[2*p + 2, 0] && IGtQ[m, 0]

5225. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*(x_)^(m_.)*((d_) + (e_.)*
(x_)^2)^(p_.), x_Symbol] := Simp[(- (b*c^(m + 1))^(-1))*Simp[(d + e*x^2)
]^p/(1 - c^2*x^2)^p Subst[Int[x^n*Cos[-a/b + x/b]^m*Sin[-a/b + x/b]
^(2*p + 1), x], x, a + b*ArcCos[c*x]], x] /; FreeQ[{a, b, c, d, e, n},
x] && EqQ[c^2*d + e, 0] && IGtQ[2*p + 2, 0] && IGtQ[m, 0]

5226. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_.)*((d_) +
(e_.)*(x_)^2)^(p_.), x_Symbol] := Int[ExpandIntegrand[(a + b*ArcSin[c*
x])^n/Sqrt[d + e*x^2], (f*x)^m*(d + e*x^2)^(p + 1/2), x], x] /; FreeQ[
{a, b, c, d, e, f, m, n}, x] && EqQ[c^2*d + e, 0] && IGtQ[p + 1/2, 0]
&& !IGtQ[(m + 1)/2, 0] && (EqQ[m, -1] || EqQ[m, -2])

5227. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.)*(x_))^(m_.)*((d_) +
(e_.)*(x_)^2)^(p_.), x_Symbol] := Int[ExpandIntegrand[(a + b*ArcCos[c*
x])^n/Sqrt[d + e*x^2], (f*x)^m*(d + e*x^2)^(p + 1/2), x], x] /; FreeQ[
{a, b, c, d, e, f, m, n}, x] && EqQ[c^2*d + e, 0] && IGtQ[p + 1/2, 0]
&& !IGtQ[(m + 1)/2, 0] && (EqQ[m, -1] || EqQ[m, -2])

5228. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))*(x_)*((d_) + (e_.)*(x_)^2)^(p_.
), x_Symbol] := Simp[(d + e*x^2)^(p + 1)*((a + b*ArcSin[c*x])/(2*e*(p
+ 1))), x] - Simp[b*(c/(2*e*(p + 1))) Int[(d + e*x^2)^(p + 1)/Sqrt[1
- c^2*x^2], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && NeQ[c^2*d + e,
0] && NeQ[p, -1]

5229. Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))*(x_)*((d_) + (e_.)*(x_)^2)^(p_.
), x_Symbol] := Simp[(d + e*x^2)^(p + 1)*((a + b*ArcCos[c*x])/(2*e*(p
+ 1))), x] + Simp[b*(c/(2*e*(p + 1))) Int[(d + e*x^2)^(p + 1)/Sqrt[1
- c^2*x^2], x], x] /; FreeQ[{a, b, c, d, e, p}, x] && NeQ[c^2*d + e,
0] && NeQ[p, -1]

5230. Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))*((f_.)*(x_))^(m_.)*((d_) + (e_.
)*(x_)^2)^(p_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x^2)^p,
x]}, Simp[(a + b*ArcSin[c*x]) u, x] - Simp[b*c Int[SimplifyIntegr
and[u/Sqrt[1 - c^2*x^2], x], x], x] /; FreeQ[{a, b, c, d, e, f, m}, x
] && NeQ[c^2*d + e, 0] && IntegerQ[p] && (GtQ[p, 0] || (IGtQ[(m - 1)/2]

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- , 0] && LeQ[m + p, 0]))
5231.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b + (f \cdot x)^m) \cdot (d + e \cdot x^2)^p, x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(f \cdot x)^m \cdot (d + e \cdot x^2)^p, x]\}, \text{Simp}[(a + b \cdot \text{ArcCos}[c \cdot x]) \cdot u, x] + \text{Simp}[b \cdot c \cdot \text{Int}[\text{SimplifyIntegr and}[u/\text{Sqrt}[1 - c^2 \cdot x^2], x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{NeQ}[c^2 \cdot d + e, 0] \&\& \text{IntegerQ}[p] \&\& (\text{GtQ}[p, 0] \mid \mid (\text{IGtQ}[(m - 1)/2, 0] \&\& \text{LeQ}[m + p, 0]))$
5232.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b + (f \cdot x)^m) \cdot (d + e \cdot x^2)^p, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcSin}[c \cdot x])^n \cdot (f \cdot x)^m \cdot (d + e \cdot x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[c^2 \cdot d + e, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[p] \&\& \text{IntegerQ}[m]$
5233.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b + (f \cdot x)^m) \cdot (d + e \cdot x^2)^p, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcCos}[c \cdot x])^n \cdot (f \cdot x)^m \cdot (d + e \cdot x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[c^2 \cdot d + e, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[p] \&\& \text{IntegerQ}[m]$
5234.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b + (f \cdot x)^m) \cdot (d + e \cdot x^2)^p, x\_Symbol] \rightarrow \text{Unintegrable}[(f \cdot x)^m \cdot (d + e \cdot x^2)^p \cdot (a + b \cdot \text{ArcSin}[c \cdot x])^n, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p\}, x]$
5235.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b + (f \cdot x)^m) \cdot (d + e \cdot x^2)^p, x\_Symbol] \rightarrow \text{Unintegrable}[(f \cdot x)^m \cdot (d + e \cdot x^2)^p \cdot (a + b \cdot \text{ArcCos}[c \cdot x])^n, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p\}, x]$
5236.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b + (f \cdot x)^m) \cdot (h + (g \cdot x)^q) \cdot (d + e \cdot x^2)^p, x\_Symbol] \rightarrow \text{Simp}[(-d^2) \cdot (g/e)^q \cdot \text{Int}[(h \cdot x)^m \cdot (d + e \cdot x^2)^{p - q} \cdot (1 - c^2 \cdot x^2)^q \cdot (a + b \cdot \text{ArcSin}[c \cdot x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[e \cdot f + d \cdot g, 0] \&\& \text{EqQ}[c^2 \cdot d^2 - e^2, 0] \&\& \text{HalfIntegerQ}[p, q] \&\& \text{GeQ}[p - q, 0] \&\& \text{GtQ}[d, 0] \&\& \text{LtQ}[g/e, 0]$
5237.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b + (f \cdot x)^m) \cdot (h + (g \cdot x)^q) \cdot (d + e \cdot x^2)^p, x\_Symbol] \rightarrow \text{Simp}[(-d^2)$

- $(g/e)^q \int [(h*x)^m (d + e*x)^{p-q} (1 - c^2*x^2)^q (a + b*\text{ArcCos}[c*x])^n, x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f, g, h, m, n, x\} \ \&\& \ \text{EqQ}[e*f + d*g, 0] \ \&\& \ \text{EqQ}[c^2*d^2 - e^2, 0] \ \&\& \ \text{HalfIntegerQ}[p, q] \ \&\& \ \text{GeQ}[p - q, 0] \ \&\& \ \text{GtQ}[d, 0] \ \&\& \ \text{LtQ}[g/e, 0]$
5238.  $\text{Int}[(a_.) + \text{ArcSin}[c_.*(x_.)]*(b_.)]^{(n_.)}*((h_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.))^{(p_.)}*((f_.) + (g_.)*(x_.))^{(q_.)}, x\_Symbol] \rightarrow \text{Simp}[(-d^2)*(g/e)^{\text{IntPart}[q]}*(d + e*x)^{\text{FracPart}[q]}*((f + g*x)^{\text{FracPart}[q]}/(1 - c^2*x^2)^{\text{FracPart}[q]}) \ \text{Int}[(h*x)^m (d + e*x)^{p-q} (1 - c^2*x^2)^q (a + b*\text{ArcSin}[c*x])^n, x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f, g, h, m, n, x\} \ \&\& \ \text{EqQ}[e*f + d*g, 0] \ \&\& \ \text{EqQ}[c^2*d^2 - e^2, 0] \ \&\& \ \text{HalfIntegerQ}[p, q] \ \&\& \ \text{GeQ}[p - q, 0]$
5239.  $\text{Int}[(a_.) + \text{ArcCos}[c_.*(x_.)]*(b_.)]^{(n_.)}*((h_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.))^{(p_.)}*((f_.) + (g_.)*(x_.))^{(q_.)}, x\_Symbol] \rightarrow \text{Simp}[(-d^2)*(g/e)^{\text{IntPart}[q]}*(d + e*x)^{\text{FracPart}[q]}*((f + g*x)^{\text{FracPart}[q]}/(1 - c^2*x^2)^{\text{FracPart}[q]}) \ \text{Int}[(h*x)^m (d + e*x)^{p-q} (1 - c^2*x^2)^q (a + b*\text{ArcCos}[c*x])^n, x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, f, g, h, m, n, x\} \ \&\& \ \text{EqQ}[e*f + d*g, 0] \ \&\& \ \text{EqQ}[c^2*d^2 - e^2, 0] \ \&\& \ \text{HalfIntegerQ}[p, q] \ \&\& \ \text{GeQ}[p - q, 0]$
5240.  $\text{Int}[(a_.) + \text{ArcSin}[c_.*(x_.)]*(b_.)]^{(n_.)}/((d_.) + (e_.)*(x_.)), x\_Symbol] \rightarrow \text{Subst}[\text{Int}[(a + b*x)^n*(\text{Cos}[x]/(c*d + e*\text{Sin}[x]))], x], x, \text{ArcSin}[c*x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{IGtQ}[n, 0]$
5241.  $\text{Int}[(a_.) + \text{ArcCos}[c_.*(x_.)]*(b_.)]^{(n_.)}/((d_.) + (e_.)*(x_.)), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b*x)^n*(\text{Sin}[x]/(c*d + e*\text{Cos}[x]))], x], x, \text{ArcCos}[c*x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{IGtQ}[n, 0]$
5242.  $\text{Int}[(a_.) + \text{ArcSin}[c_.*(x_.)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(d + e*x)^{m+1}*((a + b*\text{ArcSin}[c*x])^n/(e*(m+1))), x] - \text{Simp}[b*c*(n/(e*(m+1))) \ \text{Int}[(d + e*x)^{m+1}*((a + b*\text{ArcSin}[c*x])^{n-1}/\text{Sqrt}[1 - c^2*x^2]), x], x] /;$ 
 $\text{FreeQ}\{a, b, c, d, e, m, x\} \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{NeQ}[m, -1]$
5243.  $\text{Int}[(a_.) + \text{ArcCos}[c_.*(x_.)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(d + e*x)^{m+1}*((a + b*\text{ArcCos}[c*x])^n/(e*(m+1))$

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))), x] + Simp[b*c*(n/(e*(m + 1))) Int[(d + e*x)^(m + 1)*((a + b*Arc
Cos[c*x])^(n - 1)/Sqrt[1 - c^2*x^2]), x], x] /; FreeQ[{a, b, c, d, e,
m}, x] && IGtQ[n, 0] && NeQ[m, -1]

5244. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))^(n_)*((d_) + (e_.)*(x_))^(m_.),
x_Symbol] :> Int[ExpandIntegrand[(d + e*x)^m*(a + b*ArcSin[c*x])^n, x
], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[m, 0] && LtQ[n, -1]

5245. Int[((a_.) + ArcCos[(c_.)*(x_)])*(b_.))^(n_)*((d_) + (e_.)*(x_))^(m_.),
x_Symbol] :> Int[ExpandIntegrand[(d + e*x)^m*(a + b*ArcCos[c*x])^n, x
], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[m, 0] && LtQ[n, -1]

5246. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))^(n_)*((d_.) + (e_.)*(x_))^(m_.)
, x_Symbol] :> Simp[1/c^(m + 1) Subst[Int[(a + b*x)^n*cos[x]*(c*d +
e*sin[x])^m, x], x, ArcSin[c*x]], x] /; FreeQ[{a, b, c, d, e, n}, x] &
& IGtQ[m, 0]

5247. Int[((a_.) + ArcCos[(c_.)*(x_)])*(b_.))^(n_)*((d_.) + (e_.)*(x_))^(m_.)
, x_Symbol] :> Simp[-(c^(m + 1))^( -1) Subst[Int[(a + b*x)^n*sin[x]*(
c*d + e*cos[x])^m, x], x, ArcCos[c*x]], x] /; FreeQ[{a, b, c, d, e, n}
, x] && IGtQ[m, 0]

5248. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))*(Px_), x_Symbol] :> With[{u = I
ntHide[ExpandExpression[Px, x], x]}, Simp[(a + b*ArcSin[c*x]) u, x]
- Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 - c^2*x^2], x], x], x]] /;
FreeQ[{a, b, c}, x] && PolynomialQ[Px, x]

5249. Int[((a_.) + ArcCos[(c_.)*(x_)])*(b_.))*(Px_), x_Symbol] :> With[{u = I
ntHide[ExpandExpression[Px, x], x]}, Simp[(a + b*ArcCos[c*x]) u, x]
+ Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 - c^2*x^2], x], x], x]] /;
FreeQ[{a, b, c}, x] && PolynomialQ[Px, x]

5250. Int[((a_.) + ArcSin[(c_.)*(x_)])*(b_.))^(n_)*(Px_), x_Symbol] :> Int[Ex
pandIntegrand[Px*(a + b*ArcSin[c*x])^n, x], x] /; FreeQ[{a, b, c, n},
x] && PolynomialQ[Px, x]

```

5251. `Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^n_*(Px_), x_Symbol] := Int[ExpandIntegrand[Px*(a + b*ArcCos[c*x])^n, x], x] /; FreeQ[{a, b, c, n}, x] && PolynomialQ[Px, x]`
5252. `Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))*(Px_)*((d_.) + (e_.)*(x_))^m_.), x_Symbol] := With[{u = IntHide[Px*(d + e*x)^m, x]}, Simp[(a + b*ArcSin[c*x]) u, x] - Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 - c^2*x^2], x], x], x]] /; FreeQ[{a, b, c, d, e, m}, x] && PolynomialQ[Px, x]`
5253. `Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))*(Px_)*((d_.) + (e_.)*(x_))^m_.), x_Symbol] := With[{u = IntHide[Px*(d + e*x)^m, x]}, Simp[(a + b*ArcCos[c*x]) u, x] + Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 - c^2*x^2], x], x], x]] /; FreeQ[{a, b, c, d, e, m}, x] && PolynomialQ[Px, x]`
5254. `Int[((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^n_*((d_) + (e_.)*(x_))^m_*(f_.) + (g_.)*(x_))^p_.), x_Symbol] := With[{u = IntHide[(f + g*x)^p*(d + e*x)^m, x]}, Simp[(a + b*ArcSin[c*x])^n u, x] - Simp[b*c*n Int[SimplifyIntegrand[u*((a + b*ArcSin[c*x])^(n - 1)/Sqrt[1 - c^2*x^2]), x], x], x]] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[n, 0] && IGtQ[p, 0] && ILtQ[m, 0] && LtQ[m + p + 1, 0]`
5255. `Int[((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^n_*((d_) + (e_.)*(x_))^m_*(f_.) + (g_.)*(x_))^p_.), x_Symbol] := With[{u = IntHide[(f + g*x)^p*(d + e*x)^m, x]}, Simp[(a + b*ArcCos[c*x])^n u, x] + Simp[b*c*n Int[SimplifyIntegrand[u*((a + b*ArcCos[c*x])^(n - 1)/Sqrt[1 - c^2*x^2]), x], x], x]] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[n, 0] && IGtQ[p, 0] && ILtQ[m, 0] && LtQ[m + p + 1, 0]`
5256. `Int[(((a_.) + ArcSin[(c_.)*(x_)]*(b_.))^n_*((f_.) + (g_.)*(x_) + (h_.)*(x_)^2)^p_.)/((d_) + (e_.)*(x_))^2, x_Symbol] := With[{u = IntHide[(f + g*x + h*x^2)^p/(d + e*x)^2, x]}, Simp[(a + b*ArcSin[c*x])^n u, x] - Simp[b*c*n Int[SimplifyIntegrand[u*((a + b*ArcSin[c*x])^(n - 1)/Sqrt[1 - c^2*x^2]), x], x], x]] /; FreeQ[{a, b, c, d, e, f, g, h}, x] && IGtQ[n, 0] && IGtQ[p, 0] && EqQ[e*g - 2*d*h, 0]`
5257. `Int[(((a_.) + ArcCos[(c_.)*(x_)]*(b_.))^n_*((f_.) + (g_.)*(x_) + (h_.)*(x_)^2)^p_.)/((d_) + (e_.)*(x_))^2, x_Symbol] := With[{u = IntHide`

- $$e[(f + g*x + h*x^2)^p/(d + e*x)^2, x], \text{Simp}[(a + b*\text{ArcCos}[c*x])^n \text{ u}, x] + \text{Simp}[b*c^n \text{ Int}[\text{SimplifyIntegrand}[u*((a + b*\text{ArcCos}[c*x])^{(n-1)}/\text{Sqrt}[1 - c^2*x^2]), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e*g - 2*d*h, 0]$$
5258. $\text{Int}[(a + \text{ArcSin}[c*x])*(b + e*x)^n*(d + e*x)^m, x] \text{ :> } \text{Int}[\text{ExpandIntegrand}[P*x*(d + e*x)^m*(a + b*\text{ArcSin}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolynomialQ}[P, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m]$
5259. $\text{Int}[(a + \text{ArcCos}[c*x])*(b + e*x)^n*(d + e*x)^m, x] \text{ :> } \text{Int}[\text{ExpandIntegrand}[P*x*(d + e*x)^m*(a + b*\text{ArcCos}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolynomialQ}[P, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m]$
5260. $\text{Int}[(a + \text{ArcSin}[c*x])*(b + e*x)^m*(d + e*x^2)^p, x] \text{ :> } \text{With}[\{u = \text{IntHide}[(f + g*x)^m*(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSin}[c*x]) \text{ u}, x] - \text{Simp}[b*c \text{ Int}[1/\text{Sqrt}[1 - c^2*x^2] \text{ u}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{GtQ}[d, 0] \&\& (\text{LtQ}[m, -2*p - 1] \text{ || } \text{GtQ}[m, 3])$
5261. $\text{Int}[(a + \text{ArcCos}[c*x])*(b + e*x)^m*(d + e*x^2)^p, x] \text{ :> } \text{With}[\{u = \text{IntHide}[(f + g*x)^m*(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcCos}[c*x]) \text{ u}, x] + \text{Simp}[b*c \text{ Int}[1/\text{Sqrt}[1 - c^2*x^2] \text{ u}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{ILtQ}[p + 1/2, 0] \&\& \text{GtQ}[d, 0] \&\& (\text{LtQ}[m, -2*p - 1] \text{ || } \text{GtQ}[m, 3])$
5262. $\text{Int}[(a + \text{ArcSin}[c*x])*(b + e*x)^n*(d + e*x^2)^p*(f + g*x)^m, x] \text{ :> } \text{Int}[\text{ExpandIntegrand}[(d + e*x^2)^p*(a + b*\text{ArcSin}[c*x])^n, (f + g*x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{IntegerQ}[p + 1/2] \&\& \text{GtQ}[d, 0] \&\& \text{IGtQ}[n, 0] \&\& (m == 1 \text{ || } p > 0 \text{ || } (n == 1 \&\& p > -1) \text{ | } | (m == 2 \&\& p < -2))$

5263. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.) + (g_.)*(x_))^{(m_.)} * ((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x^2)^p*(a + b*\text{ArcCos}[c*x])^n, (f + g*x)^m, x], x] /;$ FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2*d + e, 0] && IGtQ[m, 0] && IntegerQ[p + 1/2] && GtQ[d, 0] && IGtQ[n, 0] && (m == 1 || p > 0 || (n == 1 && p > -1) | (m == 2 && p < -2))
5264. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.) + (g_.)*(x_))^{(m_.)} * \text{Sqrt}[(d_.) + (e_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(f + g*x)^m*(d + e*x^2)*((a + b*\text{ArcSin}[c*x])^{(n + 1)})/(b*c*\text{Sqrt}[d]*(n + 1)), x] - \text{Simp}[1/(b*c*\text{Sqrt}[d]*(n + 1)) \text{Int}[(d*g*m + 2*e*f*x + e*g*(m + 2)*x^2)*(f + g*x)^{(m - 1)}*(a + b*\text{ArcSin}[c*x])^{(n + 1)}, x], x] /;$ FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2*d + e, 0] && ILtQ[m, 0] && GtQ[d, 0] && IGtQ[n, 0]
5265. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.) + (g_.)*(x_))^{(m_.)} * \text{Sqrt}[(d_.) + (e_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(-f + g*x)^m*(d + e*x^2)*((a + b*\text{ArcCos}[c*x])^{(n + 1)})/(b*c*\text{Sqrt}[d]*(n + 1)), x] + \text{Simp}[1/(b*c*\text{Sqrt}[d]*(n + 1)) \text{Int}[(d*g*m + 2*e*f*x + e*g*(m + 2)*x^2)*(f + g*x)^{(m - 1)}*(a + b*\text{ArcCos}[c*x])^{(n + 1)}, x], x] /;$ FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2*d + e, 0] && ILtQ[m, 0] && GtQ[d, 0] && IGtQ[n, 0]
5266. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.) + (g_.)*(x_))^{(m_.)} * ((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{Sqrt}[d + e*x^2]*(a + b*\text{ArcSin}[c*x])^n, (f + g*x)^m*(d + e*x^2)^{(p - 1/2)}, x], x] /;$ FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2*d + e, 0] && IntegerQ[m] && IGtQ[p + 1/2, 0] && GtQ[d, 0] && IGtQ[n, 0]
5267. $\text{Int}[(a_.) + \text{ArcCos}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.) + (g_.)*(x_))^{(m_.)} * ((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{Sqrt}[d + e*x^2]*(a + b*\text{ArcCos}[c*x])^n, (f + g*x)^m*(d + e*x^2)^{(p - 1/2)}, x], x] /;$ FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2*d + e, 0] && IntegerQ[m] && IGtQ[p + 1/2, 0] && GtQ[d, 0] && IGtQ[n, 0]
5268. $\text{Int}[(a_.) + \text{ArcSin}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.) + (g_.)*(x_))^{(m_.)} * ((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f + g*x)^m*(d + e*x^2)^{(p + 1/2)}*((a + b*\text{ArcSin}[c*x])^{(n + 1)})/(b*c*\text{Sqrt}[d]*(n + 1)), x] - S$

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imp[1/(b*c*Sqrt[d]*(n + 1)) Int[ExpandIntegrand[(f + g*x)^(m - 1)*(a
+ b*ArcSin[c*x])^(n + 1), (d*g*m + e*f*(2*p + 1)*x + e*g*(m + 2*p + 1
)*x^2)*(d + e*x^2)^(p - 1/2), x], x], x] /; FreeQ[{a, b, c, d, e, f, g
}, x] && EqQ[c^2*d + e, 0] && ILtQ[m, 0] && IGtQ[p - 1/2, 0] && GtQ[d,
0] && IGtQ[n, 0]

5269. Int[((a_) + ArcCos[(c_)*(x_)])*(b_)]^(n_)*((f_) + (g_)*(x_))^(m_)
((d_) + (e_)(x_)^2)^(p_), x_Symbol] := Simp[(-(f + g*x)^m)*(d + e*x
^2)^(p + 1/2)*((a + b*ArcCos[c*x])^(n + 1)/(b*c*Sqrt[d]*(n + 1))), x]
+ Simp[1/(b*c*Sqrt[d]*(n + 1)) Int[ExpandIntegrand[(f + g*x)^(m - 1)
*(a + b*ArcCos[c*x])^(n + 1), (d*g*m + e*f*(2*p + 1)*x + e*g*(m + 2*p
+ 1)*x^2)*(d + e*x^2)^(p - 1/2), x], x], x] /; FreeQ[{a, b, c, d, e, f
, g}, x] && EqQ[c^2*d + e, 0] && ILtQ[m, 0] && IGtQ[p - 1/2, 0] && GtQ
[d, 0] && IGtQ[n, 0]

5270. Int[(((a_) + ArcSin[(c_)*(x_)])*(b_)]^(n_)*((f_) + (g_)*(x_))^(m_)
)/Sqrt[(d_) + (e_)*(x_)^2], x_Symbol] := Simp[(f + g*x)^m*((a + b*Arc
Sin[c*x])^(n + 1)/(b*c*Sqrt[d]*(n + 1))), x] - Simp[g*(m/(b*c*Sqrt[d]*
(n + 1))) Int[(f + g*x)^(m - 1)*(a + b*ArcSin[c*x])^(n + 1), x], x]
/; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2*d + e, 0] && IGtQ[m, 0]
&& GtQ[d, 0] && LtQ[n, -1]

5271. Int[(((a_) + ArcCos[(c_)*(x_)])*(b_)]^(n_)*((f_) + (g_)*(x_))^(m_)
)/Sqrt[(d_) + (e_)*(x_)^2], x_Symbol] := Simp[(-(f + g*x)^m)*((a + b*
ArcCos[c*x])^(n + 1)/(b*c*Sqrt[d]*(n + 1))), x] + Simp[g*(m/(b*c*Sqrt[
d]*(n + 1))) Int[(f + g*x)^(m - 1)*(a + b*ArcCos[c*x])^(n + 1), x],
x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2*d + e, 0] && IGtQ[m,
0] && GtQ[d, 0] && LtQ[n, -1]

5272. Int[(((a_) + ArcSin[(c_)*(x_)])*(b_)]^(n_)*((f_) + (g_)*(x_))^(m_)
)/Sqrt[(d_) + (e_)*(x_)^2], x_Symbol] := Simp[1/(c^(m + 1)*Sqrt[d])
Subst[Int[(a + b*x)^n*(c*f + g*Sin[x])^m, x], x, ArcSin[c*x]], x] /;
FreeQ[{a, b, c, d, e, f, g, n}, x] && EqQ[c^2*d + e, 0] && IntegerQ[m
] && GtQ[d, 0] && (GtQ[m, 0] || IGtQ[n, 0])

5273. Int[(((a_) + ArcCos[(c_)*(x_)])*(b_)]^(n_)*((f_) + (g_)*(x_))^(m_)
)/Sqrt[(d_) + (e_)*(x_)^2], x_Symbol] := Simp[-(c^(m + 1)*Sqrt[d])^(

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- 1) Subst[Int[(a + b\*x)^n\*(c\*f + g\*cos[x])^m, x], x, ArcCos[c\*x]], x] /; FreeQ[{a, b, c, d, e, f, g, n}, x] && EqQ[c^2\*d + e, 0] && IntegerQ[m] && GtQ[d, 0] && (GtQ[m, 0] || IGtQ[n, 0])
5274. Int[((a\_) + ArcSin[(c\_)\*(x\_)])\*(b\_)^(n\_)\*((f\_) + (g\_)\*(x\_))^(m\_) \*((d\_) + (e\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Int[ExpandIntegrand[(a + b\*ArcSin[c\*x])^n/Sqrt[d + e\*x^2], (f + g\*x)^m\*(d + e\*x^2)^(p + 1/2), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2\*d + e, 0] && IntegerQ[m] && ILtQ[p + 1/2, 0] && GtQ[d, 0] && IGtQ[n, 0]
5275. Int[((a\_) + ArcCos[(c\_)\*(x\_)])\*(b\_)^(n\_)\*((f\_) + (g\_)\*(x\_))^(m\_) \*((d\_) + (e\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Int[ExpandIntegrand[(a + b\*ArcCos[c\*x])^n/Sqrt[d + e\*x^2], (f + g\*x)^m\*(d + e\*x^2)^(p + 1/2), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && EqQ[c^2\*d + e, 0] && IntegerQ[m] && ILtQ[p + 1/2, 0] && GtQ[d, 0] && IGtQ[n, 0]
5276. Int[((a\_) + ArcSin[(c\_)\*(x\_)])\*(b\_)^(n\_)\*((f\_) + (g\_)\*(x\_))^(m\_) \*((d\_) + (e\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[Simp[(d + e\*x^2)^p/(1 - c^2\*x^2)^p] Int[(f + g\*x)^m\*(1 - c^2\*x^2)^p\*(a + b\*ArcSin[c\*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, n}, x] && EqQ[c^2\*d + e, 0] && IntegerQ[m] && IntegerQ[p - 1/2] && !GtQ[d, 0]
5277. Int[((a\_) + ArcCos[(c\_)\*(x\_)])\*(b\_)^(n\_)\*((f\_) + (g\_)\*(x\_))^(m\_) \*((d\_) + (e\_)\*(x\_)^2)^(p\_), x\_Symbol] :> Simp[Simp[(d + e\*x^2)^p/(1 - c^2\*x^2)^p] Int[(f + g\*x)^m\*(1 - c^2\*x^2)^p\*(a + b\*ArcCos[c\*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, n}, x] && EqQ[c^2\*d + e, 0] && IntegerQ[m] && IntegerQ[p - 1/2] && !GtQ[d, 0]
5278. Int[(Log[(h\_)\*((f\_) + (g\_)\*(x\_))^(m\_)])\*((a\_) + ArcSin[(c\_)\*(x\_)])\*(b\_)^(n\_)]/Sqrt[(d\_) + (e\_)\*(x\_)^2], x\_Symbol] :> Simp[Log[h\*(f + g\*x)^m]\*((a + b\*ArcSin[c\*x])^(n + 1)/(b\*c\*Sqrt[d]\*(n + 1))), x] - Simp[g\*(m/(b\*c\*Sqrt[d]\*(n + 1))) Int[(a + b\*ArcSin[c\*x])^(n + 1)/(f + g\*x), x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m}, x] && EqQ[c^2\*d + e, 0] && GtQ[d, 0] && IGtQ[n, 0]
5279. Int[(Log[(h\_)\*((f\_) + (g\_)\*(x\_))^(m\_)])\*((a\_) + ArcCos[(c\_)\*(x\_)])\*(b\_)^(n\_)]/Sqrt[(d\_) + (e\_)\*(x\_)^2], x\_Symbol] :> Simp[(-Log[h\*(f



- $$+ g*x^m] * ((a + b*\text{ArcCos}[c*x])^{n+1} / (b*c*\text{Sqrt}[d]*(n+1))), x] +$$

$$\text{Simp}[g*(m/(b*c*\text{Sqrt}[d]*(n+1))) \text{Int}[(a + b*\text{ArcCos}[c*x])^{n+1} / (f$$

$$+ g*x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m\}, x] \&\& \text{EqQ}[c^2*d +$$

$$e, 0] \&\& \text{GtQ}[d, 0] \&\& \text{IGtQ}[n, 0]$$
5280. 
$$\text{Int}[\text{Log}[(h_.)*((f_.) + (g_.)*(x_.))^{(m_.)}]*((a_.) + \text{ArcSin}[(c_.)*(x_.)]*($$

$$b_.))^{(n_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[\text{Simp}[(d + e$$

$$*x^2)^p / (1 - c^2*x^2)^p \text{Int}[\text{Log}[h*(f + g*x)^m]*(1 - c^2*x^2)^p*(a +$$

$$b*\text{ArcSin}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n\}, x]$$

$$\&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p - 1/2] \&\& !\text{GtQ}[d, 0]$$
5281. 
$$\text{Int}[\text{Log}[(h_.)*((f_.) + (g_.)*(x_.))^{(m_.)}]*((a_.) + \text{ArcCos}[(c_.)*(x_.)]*($$

$$b_.))^{(n_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[\text{Simp}[(d + e$$

$$*x^2)^p / (1 - c^2*x^2)^p \text{Int}[\text{Log}[h*(f + g*x)^m]*(1 - c^2*x^2)^p*(a +$$

$$b*\text{ArcCos}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n\}, x]$$

$$\&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p - 1/2] \&\& !\text{GtQ}[d, 0]$$
5282. 
$$\text{Int}[((a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))*((d_.) + (e_.)*(x_.))^{(m_.)}*((f_.)$$

$$+ (g_.)*(x_.))^{(m_.)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(d + e*x)^m*(f + g*$$

$$x)^m, x]\}, \text{Simp}[(a + b*\text{ArcSin}[c*x]) \text{u}, x] - \text{Simp}[b*c \text{Int}[1/\text{Sqrt}[1$$

$$- c^2*x^2] \text{u}, x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{ILtQ}[m +$$

$$1/2, 0]$$
5283. 
$$\text{Int}[((a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))*((d_.) + (e_.)*(x_.))^{(m_.)}*((f_.)$$

$$+ (g_.)*(x_.))^{(m_.)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(d + e*x)^m*(f + g*$$

$$x)^m, x]\}, \text{Simp}[(a + b*\text{ArcCos}[c*x]) \text{u}, x] + \text{Simp}[b*c \text{Int}[1/\text{Sqrt}[1$$

$$- c^2*x^2] \text{u}, x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{ILtQ}[m +$$

$$1/2, 0]$$
5284. 
$$\text{Int}[((a_.) + \text{ArcSin}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((d_.) + (e_.)*(x_.))^{(m_.)}$$

$$*((f_.) + (g_.)*(x_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)$$

$$^m*(f + g*x)^m*(a + b*\text{ArcSin}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e,$$

$$f, g, n\}, x] \&\& \text{IntegerQ}[m]$$
5285. 
$$\text{Int}[((a_.) + \text{ArcCos}[(c_.)*(x_.)]*(b_.))^{(n_.)}*((d_.) + (e_.)*(x_.))^{(m_.)}$$

$$*((f_.) + (g_.)*(x_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)$$

$$^m*(f + g*x)^m*(a + b*\text{ArcCos}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e,$$

$f, g, n\}, x]$  && IntegerQ[m]

5286.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b \cdot x)] \cdot u, x\_Symbol] \rightarrow \text{With}[\{v = \text{IntHide}[u, x]\}, \text{Simp}[(a + b \cdot \text{ArcSin}[c \cdot x]) \cdot v, x] - \text{Simp}[b \cdot c \cdot \text{Int}[\text{SimplifyIntegrand}[v/\text{Sqrt}[1 - c^2 \cdot x^2], x], x], x] /; \text{InverseFunctionFreeQ}[v, x]] /; \text{FreeQ}[\{a, b, c\}, x]$

5287.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b \cdot x)] \cdot u, x\_Symbol] \rightarrow \text{With}[\{v = \text{IntHide}[u, x]\}, \text{Simp}[(a + b \cdot \text{ArcCos}[c \cdot x]) \cdot v, x] + \text{Simp}[b \cdot c \cdot \text{Int}[\text{SimplifyIntegrand}[v/\text{Sqrt}[1 - c^2 \cdot x^2], x], x], x] /; \text{InverseFunctionFreeQ}[v, x]] /; \text{FreeQ}[\{a, b, c\}, x]$

5288.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b \cdot x)^n \cdot (P \cdot x) \cdot ((d + e \cdot x)^2)^p, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[P \cdot (d + e \cdot x)^{2p} \cdot (a + b \cdot \text{ArcSin}[c \cdot x])^n, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{PolynomialQ}[P, x] \&\& \text{EqQ}[c^2 \cdot d + e, 0] \&\& \text{IntegerQ}[p - 1/2]$

5289.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b \cdot x)^n \cdot (P \cdot x) \cdot ((d + e \cdot x)^2)^p, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[P \cdot (d + e \cdot x)^{2p} \cdot (a + b \cdot \text{ArcCos}[c \cdot x])^n, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{PolynomialQ}[P, x] \&\& \text{EqQ}[c^2 \cdot d + e, 0] \&\& \text{IntegerQ}[p - 1/2]$

5290.  $\text{Int}[(a + \text{ArcSin}[c \cdot x]) \cdot (b \cdot x)^n \cdot (P \cdot x) \cdot ((f + g \cdot (d + e \cdot x)^2)^p)^m, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[P \cdot (f + g \cdot (d + e \cdot x)^2)^{pm} \cdot (a + b \cdot \text{ArcSin}[c \cdot x])^n, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{PolynomialQ}[P, x] \&\& \text{EqQ}[c^2 \cdot d + e, 0] \&\& \text{IGtQ}[p + 1/2, 0] \&\& \text{IntegersQ}[m, n]$

5291.  $\text{Int}[(a + \text{ArcCos}[c \cdot x]) \cdot (b \cdot x)^n \cdot (P \cdot x) \cdot ((f + g \cdot (d + e \cdot x)^2)^p)^m, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[P \cdot (f + g \cdot (d + e \cdot x)^2)^{pm} \cdot (a + b \cdot \text{ArcCos}[c \cdot x])^n, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{PolynomialQ}[P, x] \&\& \text{EqQ}[c^2 \cdot d + e, 0] \&\& \text{IGtQ}[p + 1/2, 0] \&\& \text{IntegersQ}[m, n]$

5292.  $\text{Int}[\text{ArcSin}[c \cdot x]^n \cdot (R \cdot F \cdot x), x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[\text{ArcSin}[c \cdot x]^n, R \cdot F \cdot x, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[c, x] \&\&$

- RationalFunctionQ[RFx, x] && IGtQ[n, 0]
5293.  $\text{Int}[\text{ArcCos}[(c\_)\*(x\_)]^{(n\_)}\*(\text{RFx\_}), x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[\text{ArcCos}[c*x]^n, \text{RFx}, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[c, x] \&\& \text{RationalFunctionQ}[\text{RFx}, x] \&\& \text{IGtQ}[n, 0]$
5294.  $\text{Int}[(\text{ArcSin}[(c\_)\*(x\_)]\*(b\_)) + (a\_)]^{(n\_)}\*(\text{RFx\_}), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{RFx}\*(a + b*\text{ArcSin}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{RationalFunctionQ}[\text{RFx}, x] \&\& \text{IGtQ}[n, 0]$
5295.  $\text{Int}[(\text{ArcCos}[(c\_)\*(x\_)]\*(b\_)) + (a\_)]^{(n\_)}\*(\text{RFx\_}), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[\text{RFx}\*(a + b*\text{ArcCos}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{RationalFunctionQ}[\text{RFx}, x] \&\& \text{IGtQ}[n, 0]$
5296.  $\text{Int}[\text{ArcSin}[(c\_)\*(x\_)]^{(n\_)}\*(\text{RFx\_})\*((d\_)) + (e\_)\*(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[(d + e*x^2)^p*\text{ArcSin}[c*x]^n, \text{RFx}, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{c, d, e\}, x] \&\& \text{RationalFunctionQ}[\text{RFx}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p - 1/2]$
5297.  $\text{Int}[\text{ArcCos}[(c\_)\*(x\_)]^{(n\_)}\*(\text{RFx\_})\*((d\_)) + (e\_)\*(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[(d + e*x^2)^p*\text{ArcCos}[c*x]^n, \text{RFx}, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{c, d, e\}, x] \&\& \text{RationalFunctionQ}[\text{RFx}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p - 1/2]$
5298.  $\text{Int}[(\text{ArcSin}[(c\_)\*(x\_)]\*(b\_)) + (a\_)]^{(n\_)}\*(\text{RFx\_})\*((d\_)) + (e\_)\*(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x^2)^p, \text{RFx}\*(a + b*\text{ArcSin}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{RationalFunctionQ}[\text{RFx}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p - 1/2]$
5299.  $\text{Int}[(\text{ArcCos}[(c\_)\*(x\_)]\*(b\_)) + (a\_)]^{(n\_)}\*(\text{RFx\_})\*((d\_)) + (e\_)\*(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x^2)^p, \text{RFx}\*(a + b*\text{ArcCos}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{RationalFunctionQ}[\text{RFx}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p - 1/2]$
5300.  $\text{Int}[(a\_)) + \text{ArcSin}[(c\_)\*(x\_)]\*(b\_)]^{(n\_)}\*(u\_), x\_Symbol] \rightarrow \text{Unintegrable}[u\*(a + b*\text{ArcSin}[c*x])^n, x] /; \text{FreeQ}[\{a, b, c, n\}, x]$

5301.  $\text{Int}[(a_.) + \text{ArcCos}[(c_.)(x_.)](b_.))^{(n_.)}(u_.), x\_Symbol] \rightarrow \text{UnintEgrable}[u*(a + b*\text{ArcCos}[c*x])^n, x] /; \text{FreeQ}\{a, b, c, n\}, x]$
5302.  $\text{Int}[(a_.) + \text{ArcSin}[(c_) + (d_.)(x_.)](b_.))^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b*\text{ArcSin}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x]$
5303.  $\text{Int}[(a_.) + \text{ArcCos}[(c_) + (d_.)(x_.)](b_.))^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b*\text{ArcCos}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x]$
5304.  $\text{Int}[(a_.) + \text{ArcSin}[(c_) + (d_.)(x_.)](b_.))^{(n_.)}((e_.) + (f_.)(x_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d*e - c*f)/d + f*(x/d)]^m*(a + b*\text{ArcSin}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x]$
5305.  $\text{Int}[(a_.) + \text{ArcCos}[(c_) + (d_.)(x_.)](b_.))^{(n_.)}((e_.) + (f_.)(x_.))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d*e - c*f)/d + f*(x/d)]^m*(a + b*\text{ArcCos}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x]$
5306.  $\text{Int}[(a_.) + \text{ArcSin}[(c_) + (d_.)(x_.)](b_.))^{(n_.)}((A_.) + (B_.)(x_.) + (C_.)(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(-C/d^2 + (C/d^2)*x^2)^p*(a + b*\text{ArcSin}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, A, B, C, n, p\}, x] \&\& \text{EqQ}[B*(1 - c^2) + 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$
5307.  $\text{Int}[(a_.) + \text{ArcCos}[(c_) + (d_.)(x_.)](b_.))^{(n_.)}((A_.) + (B_.)(x_.) + (C_.)(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(-C/d^2 + (C/d^2)*x^2)^p*(a + b*\text{ArcCos}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, A, B, C, n, p\}, x] \&\& \text{EqQ}[B*(1 - c^2) + 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$
5308.  $\text{Int}[(a_.) + \text{ArcSin}[(c_) + (d_.)(x_.)](b_.))^{(n_.)}((e_.) + (f_.)(x_.))^{(m_.)}((A_.) + (B_.)(x_.) + (C_.)(x_.)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[$

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1/d  Subst[Int[((d*e - c*f)/d + f*(x/d))^m*(-C/d^2 + (C/d^2)*x^2)^p*(
a + b*ArcSin[x])^n, x], x, c + d*x], x] /; FreeQ[{a, b, c, d, e, f, A,
B, C, m, n, p}, x] && EqQ[B*(1 - c^2) + 2*A*c*d, 0] && EqQ[2*c*C - B*
d, 0]

5309. Int[((a_.) + ArcCos[(c_) + (d_.)*(x_)]*(b_.))^n_)*((e_.) + (f_.)*(x_
))^m_)*((A_.) + (B_.)*(x_) + (C_.)*(x_)^2)^p_, x_Symbol] := Simp[
1/d  Subst[Int[((d*e - c*f)/d + f*(x/d))^m*(-C/d^2 + (C/d^2)*x^2)^p*(
a + b*ArcCos[x])^n, x], x, c + d*x], x] /; FreeQ[{a, b, c, d, e, f, A,
B, C, m, n, p}, x] && EqQ[B*(1 - c^2) + 2*A*c*d, 0] && EqQ[2*c*C - B*
d, 0]

5310. Int[Sqrt[(a_.) + ArcSin[(c_) + (d_.)*(x_)^2]*(b_.)], x_Symbol] := Simp
[x*Sqrt[a + b*ArcSin[c + d*x^2]], x] + (-Simp[Sqrt[Pi]*x*(Cos[a/(2*b)]
+ c*Sin[a/(2*b)])*(FresnelC[Sqrt[c/(Pi*b)]*Sqrt[a + b*ArcSin[c + d*x^
2]])/(Sqrt[c/b]*(Cos[ArcSin[c + d*x^2]/2] - c*Sin[ArcSin[c + d*x^2]/2
))], x] + Simp[Sqrt[Pi]*x*(Cos[a/(2*b)] - c*Sin[a/(2*b)])*(FresnelS[Sq
rt[c/(Pi*b)]*Sqrt[a + b*ArcSin[c + d*x^2]])/(Sqrt[c/b]*(Cos[ArcSin[c +
d*x^2]/2] - c*Sin[ArcSin[c + d*x^2]/2]))], x) /; FreeQ[{a, b, c, d},
x] && EqQ[c^2, 1]

5311. Int[Sqrt[(a_.) + ArcCos[1 + (d_.)*(x_)^2]*(b_.)], x_Symbol] := Simp[-2
*Sqrt[a + b*ArcCos[1 + d*x^2]]*(Sin[ArcCos[1 + d*x^2]/2]^2/(d*x)), x]
+ (-Simp[2*Sqrt[Pi]*Sin[a/(2*b)]*Sin[ArcCos[1 + d*x^2]/2]*(FresnelC[Sq
rt[1/(Pi*b)]*Sqrt[a + b*ArcCos[1 + d*x^2]])/(Sqrt[1/b]*d*x)), x] + Sim
p[2*Sqrt[Pi]*Cos[a/(2*b)]*Sin[ArcCos[1 + d*x^2]/2]*(FresnelS[Sqrt[1/(P
i*b)]*Sqrt[a + b*ArcCos[1 + d*x^2]])/(Sqrt[1/b]*d*x)), x] /; FreeQ[{a
, b, d}, x]

5312. Int[Sqrt[(a_.) + ArcCos[-1 + (d_.)*(x_)^2]*(b_.)], x_Symbol] := Simp[2
*Sqrt[a + b*ArcCos[-1 + d*x^2]]*(Cos[(1/2)*ArcCos[-1 + d*x^2]]^2/(d*x)
), x] + (-Simp[2*Sqrt[Pi]*Cos[a/(2*b)]*Cos[ArcCos[-1 + d*x^2]/2]*(Fres
nelC[Sqrt[1/(Pi*b)]*Sqrt[a + b*ArcCos[-1 + d*x^2]])/(Sqrt[1/b]*d*x)),
x] - Simp[2*Sqrt[Pi]*Sin[a/(2*b)]*Cos[ArcCos[-1 + d*x^2]/2]*(FresnelS[
Sqrt[1/(Pi*b)]*Sqrt[a + b*ArcCos[-1 + d*x^2]])/(Sqrt[1/b]*d*x)), x] /
; FreeQ[{a, b, d}, x]

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5313. $\text{Int}[(a_.) + \text{ArcSin}[(c_) + (d_.)(x_)^2](b_.)]^{(n_)} , x_Symbol] \rightarrow \text{Simp}[x*(a + b*\text{ArcSin}[c + d*x^2])^n, x] + (\text{Simp}[2*b*n*\text{Sqrt}[-2*c*d*x^2 - d^2*x^4]*((a + b*\text{ArcSin}[c + d*x^2])^{(n-1)})/(d*x), x] - \text{Simp}[4*b^2*n*(n-1) \text{Int}[(a + b*\text{ArcSin}[c + d*x^2])^{(n-2)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, 1] \&\& \text{GtQ}[n, 1]$
5314. $\text{Int}[(a_.) + \text{ArcCos}[(c_) + (d_.)(x_)^2](b_.)]^{(n_)} , x_Symbol] \rightarrow \text{Simp}[x*(a + b*\text{ArcCos}[c + d*x^2])^n, x] + (-\text{Simp}[2*b*n*\text{Sqrt}[-2*c*d*x^2 - d^2*x^4]*((a + b*\text{ArcCos}[c + d*x^2])^{(n-1)})/(d*x), x] - \text{Simp}[4*b^2*n*(n-1) \text{Int}[(a + b*\text{ArcCos}[c + d*x^2])^{(n-2)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, 1] \&\& \text{GtQ}[n, 1]$
5315. $\text{Int}[(a_.) + \text{ArcSin}[(c_) + (d_.)(x_)^2](b_.)]^{(-1)} , x_Symbol] \rightarrow \text{Simp}[(-x)*(c*\text{Cos}[a/(2*b)] - \text{Sin}[a/(2*b)])*(\text{CosIntegral}[(c/(2*b))*(a + b*\text{ArcSin}[c + d*x^2])]/(2*b*(\text{Cos}[\text{ArcSin}[c + d*x^2]/2] - c*\text{Sin}[\text{ArcSin}[c + d*x^2]/2]))) , x] - \text{Simp}[x*(c*\text{Cos}[a/(2*b)] + \text{Sin}[a/(2*b)])*(\text{SinIntegral}[(c/(2*b))*(a + b*\text{ArcSin}[c + d*x^2])]/(2*b*(\text{Cos}[\text{ArcSin}[c + d*x^2]/2] - c*\text{Sin}[\text{ArcSin}[c + d*x^2]/2]))) , x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, 1]$
5316. $\text{Int}[(a_.) + \text{ArcCos}[1 + (d_.)(x_)^2](b_.)]^{(-1)} , x_Symbol] \rightarrow \text{Simp}[x*\text{Cos}[a/(2*b)]*(\text{CosIntegral}[(a + b*\text{ArcCos}[1 + d*x^2])]/(2*b)]/(\text{Sqrt}[2]*b*\text{Sqrt}[(-d)*x^2]), x] + \text{Simp}[x*\text{Sin}[a/(2*b)]*(\text{SinIntegral}[(a + b*\text{ArcCos}[1 + d*x^2])]/(2*b)]/(\text{Sqrt}[2]*b*\text{Sqrt}[(-d)*x^2]), x] /; \text{FreeQ}\{a, b, d\}, x]$
5317. $\text{Int}[(a_.) + \text{ArcCos}[-1 + (d_.)(x_)^2](b_.)]^{(-1)} , x_Symbol] \rightarrow \text{Simp}[x*\text{Sin}[a/(2*b)]*(\text{CosIntegral}[(a + b*\text{ArcCos}[-1 + d*x^2])]/(2*b)]/(\text{Sqrt}[2]*b*\text{Sqrt}[d*x^2]), x] - \text{Simp}[x*\text{Cos}[a/(2*b)]*(\text{SinIntegral}[(a + b*\text{ArcCos}[-1 + d*x^2])]/(2*b)]/(\text{Sqrt}[2]*b*\text{Sqrt}[d*x^2]), x] /; \text{FreeQ}\{a, b, d\}, x]$
5318. $\text{Int}[1/\text{Sqrt}[(a_.) + \text{ArcSin}[(c_) + (d_.)(x_)^2](b_.)] , x_Symbol] \rightarrow \text{Simp}[(-\text{Sqrt}[\text{Pi}])*x*(\text{Cos}[a/(2*b)] - c*\text{Sin}[a/(2*b)])*(\text{FresnelC}[(1/(\text{Sqrt}[b*c]*\text{Sqrt}[\text{Pi}]))*\text{Sqrt}[a + b*\text{ArcSin}[c + d*x^2]])/(\text{Sqrt}[b*c]*(\text{Cos}[\text{ArcSin}[c + d*x^2]/2] - c*\text{Sin}[\text{ArcSin}[c + d*x^2]/2]))) , x] - \text{Simp}[\text{Sqrt}[\text{Pi}])*x*(\text{Cos}[a/(2*b)] + c*\text{Sin}[a/(2*b)])*(\text{FresnelS}[(1/(\text{Sqrt}[b*c]*\text{Sqrt}[\text{Pi}]))*\text{Sqrt}[a$

- $$+ b \cdot \text{ArcSin}[c + d \cdot x^2]] / (\text{Sqrt}[b \cdot c] \cdot (\text{Cos}[\text{ArcSin}[c + d \cdot x^2]/2] - c \cdot \text{Sin}[\text{ArcSin}[c + d \cdot x^2]/2]))), x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, 1]$$
5319. $\text{Int}[1/\text{Sqrt}[(a_.) + \text{ArcCos}[1 + (d_.)(x_)^2] \cdot (b_.)], x_Symbol] \rightarrow \text{Simp}[-2 \cdot \text{Sqrt}[\text{Pi}/b] \cdot \text{Cos}[a/(2 \cdot b)] \cdot \text{Sin}[\text{ArcCos}[1 + d \cdot x^2]/2] \cdot (\text{FresnelC}[\text{Sqrt}[1/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[1 + d \cdot x^2]]]/(d \cdot x)), x] - \text{Simp}[2 \cdot \text{Sqrt}[\text{Pi}/b] \cdot \text{Sin}[a/(2 \cdot b)] \cdot \text{Sin}[\text{ArcCos}[1 + d \cdot x^2]/2] \cdot (\text{FresnelS}[\text{Sqrt}[1/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[1 + d \cdot x^2]]]/(d \cdot x)), x] /; \text{FreeQ}\{a, b, d\}, x]$
5320. $\text{Int}[1/\text{Sqrt}[(a_.) + \text{ArcCos}[-1 + (d_.)(x_)^2] \cdot (b_.)], x_Symbol] \rightarrow \text{Simp}[2 \cdot \text{Sqrt}[\text{Pi}/b] \cdot \text{Sin}[a/(2 \cdot b)] \cdot \text{Cos}[\text{ArcCos}[-1 + d \cdot x^2]/2] \cdot (\text{FresnelC}[\text{Sqrt}[1/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[-1 + d \cdot x^2]]]/(d \cdot x)), x] - \text{Simp}[2 \cdot \text{Sqrt}[\text{Pi}/b] \cdot \text{Cos}[a/(2 \cdot b)] \cdot \text{Cos}[\text{ArcCos}[-1 + d \cdot x^2]/2] \cdot (\text{FresnelS}[\text{Sqrt}[1/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[-1 + d \cdot x^2]]]/(d \cdot x)), x] /; \text{FreeQ}\{a, b, d\}, x]$
5321. $\text{Int}[((a_.) + \text{ArcSin}[(c_.) + (d_.)(x_)^2] \cdot (b_.))^{(-3/2)}, x_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[-2 \cdot c \cdot d \cdot x^2 - d^2 \cdot x^4]/(b \cdot d \cdot x \cdot \text{Sqrt}[a + b \cdot \text{ArcSin}[c + d \cdot x^2]]), x] + (-\text{Simp}[(c/b)^{(3/2)} \cdot \text{Sqrt}[\text{Pi}] \cdot x \cdot (\text{Cos}[a/(2 \cdot b)] + c \cdot \text{Sin}[a/(2 \cdot b)]) \cdot (\text{FresnelC}[\text{Sqrt}[c/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcSin}[c + d \cdot x^2]]]/(\text{Cos}[(1/2) \cdot \text{ArcSin}[c + d \cdot x^2]] - c \cdot \text{Sin}[\text{ArcSin}[c + d \cdot x^2]/2]))), x] + \text{Simp}[(c/b)^{(3/2)} \cdot \text{Sqrt}[\text{Pi}] \cdot x \cdot (\text{Cos}[a/(2 \cdot b)] - c \cdot \text{Sin}[a/(2 \cdot b)]) \cdot (\text{FresnelS}[\text{Sqrt}[c/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcSin}[c + d \cdot x^2]]]/(\text{Cos}[(1/2) \cdot \text{ArcSin}[c + d \cdot x^2]] - c \cdot \text{Sin}[\text{ArcSin}[c + d \cdot x^2]/2]))), x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, 1]$
5322. $\text{Int}[((a_.) + \text{ArcCos}[1 + (d_.)(x_)^2] \cdot (b_.))^{(-3/2)}, x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[-2 \cdot d \cdot x^2 - d^2 \cdot x^4]/(b \cdot d \cdot x \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[1 + d \cdot x^2]]), x] + (-\text{Simp}[2 \cdot (1/b)^{(3/2)} \cdot \text{Sqrt}[\text{Pi}] \cdot \text{Sin}[a/(2 \cdot b)] \cdot \text{Sin}[\text{ArcCos}[1 + d \cdot x^2]/2] \cdot (\text{FresnelC}[\text{Sqrt}[1/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[1 + d \cdot x^2]]]/(d \cdot x)), x] + \text{Simp}[2 \cdot (1/b)^{(3/2)} \cdot \text{Sqrt}[\text{Pi}] \cdot \text{Cos}[a/(2 \cdot b)] \cdot \text{Sin}[\text{ArcCos}[1 + d \cdot x^2]/2] \cdot (\text{FresnelS}[\text{Sqrt}[1/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[1 + d \cdot x^2]]]/(d \cdot x)), x]) /; \text{FreeQ}\{a, b, d\}, x]$
5323. $\text{Int}[((a_.) + \text{ArcCos}[-1 + (d_.)(x_)^2] \cdot (b_.))^{(-3/2)}, x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[2 \cdot d \cdot x^2 - d^2 \cdot x^4]/(b \cdot d \cdot x \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[-1 + d \cdot x^2]]), x] + (-\text{Simp}[2 \cdot (1/b)^{(3/2)} \cdot \text{Sqrt}[\text{Pi}] \cdot \text{Cos}[a/(2 \cdot b)] \cdot \text{Cos}[\text{ArcCos}[-1 + d \cdot x^2]/2] \cdot (\text{FresnelC}[\text{Sqrt}[1/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[-1 + d \cdot x^2]]]/(d \cdot x)), x] - \text{Simp}[2 \cdot (1/b)^{(3/2)} \cdot \text{Sqrt}[\text{Pi}] \cdot \text{Sin}[a/(2 \cdot b)] \cdot \text{Cos}[\text{ArcCos}[-1 + d \cdot x^2]/2] \cdot (\text{FresnelS}[\text{Sqrt}[1/(\text{Pi} \cdot b)] \cdot \text{Sqrt}[a + b \cdot \text{ArcCos}[-1 + d \cdot x^2]]]/(d \cdot x)), x]) /; \text{FreeQ}\{a, b, d\}, x]$

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esnelS[Sqrt[1/(Pi*b)]*Sqrt[a + b*ArcCos[-1 + d*x^2]]/(d*x), x] /; FreeQ[{a, b, d}, x]
```

```
5324. Int[((a_) + ArcSin[(c_) + (d_)*(x_)^2]*(b_))^(n_), x_Symbol] := Simp[-Sqrt[-2*c*d*x^2 - d^2*x^4]/(2*b*d*x*(a + b*ArcSin[c + d*x^2])), x] + (-Simp[x*(Cos[a/(2*b)] + c*Sin[a/(2*b)])*(CosIntegral[(c/(2*b))*(a + b*ArcSin[c + d*x^2]])/(4*b^2*(Cos[ArcSin[c + d*x^2]/2] - c*Sin[ArcSin[c + d*x^2]/2]))), x] + Simp[x*(Cos[a/(2*b)] - c*Sin[a/(2*b)])*(SinIntegral[(c/(2*b))*(a + b*ArcSin[c + d*x^2]])/(4*b^2*(Cos[ArcSin[c + d*x^2]/2] - c*Sin[ArcSin[c + d*x^2]/2]))), x]) /; FreeQ[{a, b, c, d}, x] && EqQ[c^2, 1]
```

```
5325. Int[((a_) + ArcCos[1 + (d_)*(x_)^2]*(b_))^(n_), x_Symbol] := Simp[Sqrt[-2*d*x^2 - d^2*x^4]/(2*b*d*x*(a + b*ArcCos[1 + d*x^2])), x] + (Simp[x*Sin[a/(2*b)]*(CosIntegral[(a + b*ArcCos[1 + d*x^2])/(2*b)]/(2*Sqrt[2]*b^2*Sqrt[(-d)*x^2])), x] - Simp[x*Cos[a/(2*b)]*(SinIntegral[(a + b*ArcCos[1 + d*x^2])/(2*b)]/(2*Sqrt[2]*b^2*Sqrt[(-d)*x^2])), x]) /; FreeQ[{a, b, d}, x]
```

```
5326. Int[((a_) + ArcCos[-1 + (d_)*(x_)^2]*(b_))^(n_), x_Symbol] := Simp[Sqrt[2*d*x^2 - d^2*x^4]/(2*b*d*x*(a + b*ArcCos[-1 + d*x^2])), x] + (-Simp[x*Cos[a/(2*b)]*(CosIntegral[(a + b*ArcCos[-1 + d*x^2])/(2*b)]/(2*Sqrt[2]*b^2*Sqrt[d*x^2])), x] - Simp[x*Sin[a/(2*b)]*(SinIntegral[(a + b*ArcCos[-1 + d*x^2])/(2*b)]/(2*Sqrt[2]*b^2*Sqrt[d*x^2])), x]) /; FreeQ[{a, b, d}, x]
```

```
5327. Int[((a_) + ArcSin[(c_) + (d_)*(x_)^2]*(b_))^(n_), x_Symbol] := Simp[x*((a + b*ArcSin[c + d*x^2])^(n + 2)/(4*b^2*(n + 1)*(n + 2))), x] + (Simp[Sqrt[-2*c*d*x^2 - d^2*x^4]*((a + b*ArcSin[c + d*x^2])^(n + 1)/(2*b*d*(n + 1)*x)), x] - Simp[1/(4*b^2*(n + 1)*(n + 2)) Int[(a + b*ArcSin[c + d*x^2])^(n + 2), x], x]) /; FreeQ[{a, b, c, d}, x] && EqQ[c^2, 1] && LtQ[n, -1] && NeQ[n, -2]
```

```
5328. Int[((a_) + ArcCos[(c_) + (d_)*(x_)^2]*(b_))^(n_), x_Symbol] := Simp[x*((a + b*ArcCos[c + d*x^2])^(n + 2)/(4*b^2*(n + 1)*(n + 2))), x] + (-Simp[Sqrt[-2*c*d*x^2 - d^2*x^4]*((a + b*ArcCos[c + d*x^2])^(n + 1)/(2*b*d*(n + 1)*x)), x] - Simp[1/(4*b^2*(n + 1)*(n + 2)) Int[(a + b*Ar
```


- $\text{cCos}[c + d*x^2]^{(n + 2)}, x, x) /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{EqQ}[c^2, 1] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{NeQ}[n, -2]$
5329. $\text{Int}[\text{ArcSin}[(a_)*(x_)^{(p_)]^{(n_)}]/(x_), x_Symbol] \rightarrow \text{Simp}[1/p \ \text{Subst}[\text{Int}[x^n*\text{Cot}[x], x], x, \text{ArcSin}[a*x^p]], x] /; \text{FreeQ}\{a, p\}, x \ \&\& \ \text{IGtQ}[n, 0]$
5330. $\text{Int}[\text{ArcCos}[(a_)*(x_)^{(p_)]^{(n_)}]/(x_), x_Symbol] \rightarrow \text{Simp}[-p^{(-1)} \ \text{Subst}[\text{Int}[x^n*\text{Tan}[x], x], x, \text{ArcCos}[a*x^p]], x] /; \text{FreeQ}\{a, p\}, x \ \&\& \ \text{IGtQ}[n, 0]$
5331. $\text{Int}[\text{ArcSin}[(c_)/((a_)+(b_)*(x_)^{(n_)})]^{(m_)}*(u_), x_Symbol] \rightarrow \text{Int}[u*\text{ArcCsc}[a/c + b*(x^n/c)]^m, x] /; \text{FreeQ}\{a, b, c, n, m\}, x]$
5332. $\text{Int}[\text{ArcCos}[(c_)/((a_)+(b_)*(x_)^{(n_)})]^{(m_)}*(u_), x_Symbol] \rightarrow \text{Int}[u*\text{ArcSec}[a/c + b*(x^n/c)]^m, x] /; \text{FreeQ}\{a, b, c, n, m\}, x]$
5333. $\text{Int}[\text{ArcSin}[\text{Sqrt}[1 + (b_)*(x_)^2]]^{(n_)}/\text{Sqrt}[1 + (b_)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[(-b)*x^2]/(b*x) \ \text{Subst}[\text{Int}[\text{ArcSin}[x]^n/\text{Sqrt}[1 - x^2], x], x, \text{Sqrt}[1 + b*x^2]], x] /; \text{FreeQ}\{b, n\}, x]$
5334. $\text{Int}[\text{ArcCos}[\text{Sqrt}[1 + (b_)*(x_)^2]]^{(n_)}/\text{Sqrt}[1 + (b_)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[(-b)*x^2]/(b*x) \ \text{Subst}[\text{Int}[\text{ArcCos}[x]^n/\text{Sqrt}[1 - x^2], x], x, \text{Sqrt}[1 + b*x^2]], x] /; \text{FreeQ}\{b, n\}, x]$
5335. $\text{Int}[(u_)*(f_)^{(\text{ArcSin}[(a_)+(b_)*(x_)]^{(n_)}*(c_))}, x_Symbol] \rightarrow \text{Simp}[1/b \ \text{Subst}[\text{Int}[(u /. x \rightarrow -a/b + \text{Sin}[x]/b)*f^{(c*x^n)}*\text{Cos}[x], x], x, \text{ArcSin}[a + b*x]], x] /; \text{FreeQ}\{a, b, c, f\}, x \ \&\& \ \text{IGtQ}[n, 0]$
5336. $\text{Int}[(u_)*(f_)^{(\text{ArcCos}[(a_)+(b_)*(x_)]^{(n_)}*(c_))}, x_Symbol] \rightarrow \text{Simp}[-b^{(-1)} \ \text{Subst}[\text{Int}[(u /. x \rightarrow -a/b + \text{Cos}[x]/b)*f^{(c*x^n)}*\text{Sin}[x], x], x, \text{ArcCos}[a + b*x]], x] /; \text{FreeQ}\{a, b, c, f\}, x \ \&\& \ \text{IGtQ}[n, 0]$
5337. $\text{Int}[\text{ArcSin}[(a_)*(x_)^2 + (b_)*\text{Sqrt}[(c_)+(d_)*(x_)^2]], x_Symbol] \rightarrow \text{Simp}[x*\text{ArcSin}[a*x^2 + b*\text{Sqrt}[c + d*x^2]], x] - \text{Simp}[x*(\text{Sqrt}[b^2*d +$

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a^2*x^2 + 2*a*b*Sqrt[c + d*x^2]]/Sqrt[(-x^2)*(b^2*d + a^2*x^2 + 2*a*b
*Sqrt[c + d*x^2])) Int[x*((b*d + 2*a*Sqrt[c + d*x^2])/(Sqrt[c + d*x
^2]*Sqrt[b^2*d + a^2*x^2 + 2*a*b*Sqrt[c + d*x^2]))], x], x] /; FreeQ[{
a, b, c, d}, x] && EqQ[b^2*c, 1]

5338. Int[ArcCos[(a_.)*(x_)^2 + (b_.)*Sqrt[(c_) + (d_.)*(x_)^2]], x_Symbol]
:> Simp[x*ArcCos[a*x^2 + b*Sqrt[c + d*x^2]], x] + Simp[x*(Sqrt[b^2*d +
a^2*x^2 + 2*a*b*Sqrt[c + d*x^2]]/Sqrt[(-x^2)*(b^2*d + a^2*x^2 + 2*a*b
*Sqrt[c + d*x^2])) Int[x*((b*d + 2*a*Sqrt[c + d*x^2])/(Sqrt[c + d*x
^2]*Sqrt[b^2*d + a^2*x^2 + 2*a*b*Sqrt[c + d*x^2]))], x], x] /; FreeQ[{
a, b, c, d}, x] && EqQ[b^2*c, 1]

5339. Int[ArcSin[u_], x_Symbol] :> Simp[x*ArcSin[u], x] - Int[SimplifyIntegr
and[x*(D[u, x]/Sqrt[1 - u^2]), x], x] /; InverseFunctionFreeQ[u, x] &&
!FunctionOfExponentialQ[u, x]

5340. Int[ArcCos[u_], x_Symbol] :> Simp[x*ArcCos[u], x] + Int[SimplifyIntegr
and[x*(D[u, x]/Sqrt[1 - u^2]), x], x] /; InverseFunctionFreeQ[u, x] &&
!FunctionOfExponentialQ[u, x]

5341. Int[((a_.) + ArcSin[u_]*(b_.))*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :
> Simp[(c + d*x)^(m + 1)*((a + b*ArcSin[u])/(d*(m + 1))), x] - Simp[b/
(d*(m + 1)) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D[u, x]/Sqrt[1
- u^2]), x], x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ[m, -1] && Inve
rseFunctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m + 1), u, x] && !
FunctionOfExponentialQ[u, x]

5342. Int[((a_.) + ArcCos[u_]*(b_.))*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :
> Simp[(c + d*x)^(m + 1)*((a + b*ArcCos[u])/(d*(m + 1))), x] + Simp[b/
(d*(m + 1)) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D[u, x]/Sqrt[1
- u^2]), x], x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ[m, -1] && Inve
rseFunctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m + 1), u, x] && !
FunctionOfExponentialQ[u, x]

5343. Int[((a_.) + ArcSin[u_]*(b_.))*(v_), x_Symbol] :> With[{w = IntHide[v,
x]}, Simp[(a + b*ArcSin[u]) w, x] - Simp[b Int[SimplifyIntegrand[
w*(D[u, x]/Sqrt[1 - u^2]), x], x], x] /; InverseFunctionFreeQ[w, x]] /

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; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_.)
+ (d_.)*x)^(m_.) /; FreeQ[{c, d, m}, x]]

5344. Int[((a_.) + ArcCos[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v,
x]}, Simp[(a + b*ArcCos[u]) w, x] + Simp[b Int[SimplifyIntegrand[
w*(D[u, x]/Sqrt[1 - u^2]), x], x], x] /; InverseFunctionFreeQ[w, x] /
; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_.)
+ (d_.)*x)^(m_.) /; FreeQ[{c, d, m}, x]]

5345. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Simp[
x*(a + b*ArcTan[c*x^n])^p, x] - Simp[b*c*n*p Int[x^n*((a + b*ArcTan[
c*x^n])^(p - 1)/(1 + c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, n}, x] &
& IGtQ[p, 0] && (EqQ[n, 1] || EqQ[p, 1])

5346. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Simp[
x*(a + b*ArcCot[c*x^n])^p, x] + Simp[b*c*n*p Int[x^n*((a + b*ArcCot[
c*x^n])^(p - 1)/(1 + c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, n}, x] &
& IGtQ[p, 0] && (EqQ[n, 1] || EqQ[p, 1])

5347. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Int[Exp
andIntegrand[(a + (I*b*Log[1 - I*c*x^n])/2 - (I*b*Log[1 + I*c*x^n])/2)
^p, x], x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1] && IGtQ[n, 0]

5348. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Int[Exp
andIntegrand[(a + (I*b*Log[1 - I*(1/(x^n*c))])/2 - (I*b*Log[1 + I*(1/(
x^n*c))])/2)^p, x], x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1] && IGtQ[n,
0]

5349. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Int[(a
+ b*ArcCot[1/(x^n*c)])^p, x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1] && I
LtQ[n, 0]

5350. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Int[(a
+ b*ArcTan[1/(x^n*c)])^p, x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1] && I
LtQ[n, 0]

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5351. $\text{Int}[(a + \text{ArcTan}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[n]\}, \text{Simp}[k \text{ Subst}[\text{Int}[x^{k-1} \cdot (a + b \cdot \text{ArcTan}[c \cdot x^{k \cdot n}])^p, x], x, x^{1/k}], x]] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{FractionQ}[n]$
5352. $\text{Int}[(a + \text{ArcCot}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[n]\}, \text{Simp}[k \text{ Subst}[\text{Int}[x^{k-1} \cdot (a + b \cdot \text{ArcCot}[c \cdot x^{k \cdot n}])^p, x], x, x^{1/k}], x]] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{FractionQ}[n]$
5353. $\text{Int}[(a + \text{ArcTan}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcTan}[c \cdot x^n])^p, x] /; \text{FreeQ}[\{a, b, c, n, p\}, x]$
5354. $\text{Int}[(a + \text{ArcCot}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcCot}[c \cdot x^n])^p, x] /; \text{FreeQ}[\{a, b, c, n, p\}, x]$
5355. $\text{Int}[(a + \text{ArcTan}[c \cdot x] \cdot b)/x, x_Symbol] \rightarrow \text{Simp}[a \cdot \text{Log}[x], x] + (\text{Simp}[I \cdot (b/2) \text{ Int}[\text{Log}[1 - I \cdot c \cdot x]/x, x], x] - \text{Simp}[I \cdot (b/2) \text{ Int}[\text{Log}[1 + I \cdot c \cdot x]/x, x], x]) /; \text{FreeQ}[\{a, b, c\}, x]$
5356. $\text{Int}[(a + \text{ArcCot}[c \cdot x] \cdot b)/x, x_Symbol] \rightarrow \text{Simp}[a \cdot \text{Log}[x], x] + (-\text{Simp}[I \cdot (b/2) \text{ Int}[\text{Log}[1 + I/(c \cdot x)]/x, x], x] + \text{Simp}[I \cdot (b/2) \text{ Int}[\text{Log}[1 - I/(c \cdot x)]/x, x], x]) /; \text{FreeQ}[\{a, b, c\}, x]$
5357. $\text{Int}[(a + \text{ArcTan}[c \cdot x] \cdot b)^p/x, x_Symbol] \rightarrow \text{Simp}[2 \cdot (a + b \cdot \text{ArcTan}[c \cdot x])^p \cdot \text{ArcTanh}[1 - 2/(1 + I \cdot c \cdot x)], x] - \text{Simp}[2 \cdot b \cdot c \cdot p \text{ Int}[(a + b \cdot \text{ArcTan}[c \cdot x])^{p-1} \cdot (\text{ArcTanh}[1 - 2/(1 + I \cdot c \cdot x)]/(1 + c^2 \cdot x^2)), x], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{IGtQ}[p, 1]$
5358. $\text{Int}[(a + \text{ArcCot}[c \cdot x] \cdot b)^p/x, x_Symbol] \rightarrow \text{Simp}[2 \cdot (a + b \cdot \text{ArcCot}[c \cdot x])^p \cdot \text{ArcCoth}[1 - 2/(1 + I \cdot c \cdot x)], x] + \text{Simp}[2 \cdot b \cdot c \cdot p \text{ Int}[(a + b \cdot \text{ArcCot}[c \cdot x])^{p-1} \cdot (\text{ArcCoth}[1 - 2/(1 + I \cdot c \cdot x)]/(1 + c^2 \cdot x^2)), x], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{IGtQ}[p, 1]$
5359. $\text{Int}[(a + \text{ArcTan}[c \cdot x^n] \cdot b)^p/x, x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[(a + b \cdot \text{ArcTan}[c \cdot x])^p/x, x], x, x^n], x] /; \text{FreeQ}[\{a, b, c, n, p\}, x]$

{a, b, c, n}, x] && IGtQ[p, 0]

5360. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)/(x_), x_Symbol] :> Simp[1/n Subst[Int[(a + b*ArcCot[c*x])^p/x, x], x, x^n], x] /; FreeQ[{a, b, c, n}, x] && IGtQ[p, 0]

5361. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] :> Simp[x^(m + 1)*((a + b*ArcTan[c*x^n])^p/(m + 1)), x] - Simp[b*c*n*(p/(m + 1)) Int[x^(m + n)*((a + b*ArcTan[c*x^n])^(p - 1)/(1 + c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, m, n}, x] && IGtQ[p, 0] && (EqQ[p, 1] || (EqQ[n, 1] && IntegerQ[m])) && NeQ[m, -1]

5362. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] :> Simp[x^(m + 1)*((a + b*ArcCot[c*x^n])^p/(m + 1)), x] + Simp[b*c*n*(p/(m + 1)) Int[x^(m + n)*((a + b*ArcCot[c*x^n])^(p - 1)/(1 + c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, m, n}, x] && IGtQ[p, 0] && (EqQ[p, 1] || (EqQ[n, 1] && IntegerQ[m])) && NeQ[m, -1]

5363. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] :> Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*ArcTan[c*x])^p, x], x, x^n], x] /; FreeQ[{a, b, c, m, n}, x] && IGtQ[p, 1] && IntegerQ[Simplify[(m + 1)/n]]

5364. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] :> Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*ArcCot[c*x])^p, x], x, x^n], x] /; FreeQ[{a, b, c, m, n}, x] && IGtQ[p, 1] && IntegerQ[Simplify[(m + 1)/n]]

5365. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] :> Int[ExpandIntegrand[x^m*(a + (I*b*Log[1 - I*c*x^n])/2 - (I*b*Log[1 + I*c*x^n])/2)^p, x], x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1] && IGtQ[n, 0] && IntegerQ[m]

5366. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] :> Int[ExpandIntegrand[x^m*(a + (I*b*Log[1 - I*(1/(x^n*c))])/2 - (I*b*Log[1 + I*(1/(x^n*c))])/2)^p, x], x] /; FreeQ[{a, b, c}, x] && IGtQ[p,

- , 1] && IGtQ[n, 0] && IntegerQ[m]
5367. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_)])*(b_.))^(p_)*(x_)^(m_.), x_Symbol]
 :> With[{k = Denominator[m]}, Simp[k Subst[Int[x^(k*(m + 1) - 1)*(a
 + b*ArcTan[c*x^(k*n)])^p, x], x, x^(1/k)], x]] /; FreeQ[{a, b, c}, x]
 && IGtQ[p, 1] && IGtQ[n, 0] && FractionQ[m]
5368. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_)])*(b_.))^(p_)*(x_)^(m_.), x_Symbol]
 :> With[{k = Denominator[m]}, Simp[k Subst[Int[x^(k*(m + 1) - 1)*(a
 + b*ArcCot[c*x^(k*n)])^p, x], x, x^(1/k)], x]] /; FreeQ[{a, b, c}, x]
 && IGtQ[p, 1] && IGtQ[n, 0] && FractionQ[m]
5369. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_)])*(b_.))^(p_)*(x_)^(m_.), x_Symbol]
 :> Int[x^m*(a + b*ArcCot[1/(x^n*c)])^p, x] /; FreeQ[{a, b, c}, x] &&
 IGtQ[p, 1] && ILtQ[n, 0]
5370. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_)])*(b_.))^(p_)*(x_)^(m_.), x_Symbol]
 :> Int[x^m*(a + b*ArcTan[1/(x^n*c)])^p, x] /; FreeQ[{a, b, c}, x] &&
 IGtQ[p, 1] && ILtQ[n, 0]
5371. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_)])*(b_.))^(p_)*(x_)^(m_.), x_Symbol]
 :> With[{k = Denominator[n]}, Simp[k Subst[Int[x^(k*(m + 1) - 1)*(a
 + b*ArcTan[c*x^(k*n)])^p, x], x, x^(1/k)], x]] /; FreeQ[{a, b, c}, x]
 && IGtQ[p, 1] && FractionQ[n]
5372. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_)])*(b_.))^(p_)*(x_)^(m_.), x_Symbol]
 :> With[{k = Denominator[n]}, Simp[k Subst[Int[x^(k*(m + 1) - 1)*(a
 + b*ArcCot[c*x^(k*n)])^p, x], x, x^(1/k)], x]] /; FreeQ[{a, b, c}, x]
 && IGtQ[p, 1] && FractionQ[n]
5373. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_.)])*(b_.))*((d_)*(x_)^(m_), x_Symbol]
 1] :> Simp[(d*x)^(m + 1)*((a + b*ArcTan[c*x^n])/(d*(m + 1))), x] - Sim
 p[b*c*(n/(d^n*(m + 1))) Int[(d*x)^(m + n)/(1 + c^2*x^(2*n)), x], x]
 /; FreeQ[{a, b, c, d, m, n}, x] && IntegerQ[n] && NeQ[m, -1]

5374. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)^{(n_.)}]* (b_.)]*((d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(d*x)^{(m+1)}*((a + b*\text{ArcCot}[c*x^n])/(d*(m+1))), x] + \text{Simp}[b*c*(n/(d^n*(m+1))) \text{Int}[(d*x)^{(m+n)}/(1 + c^2*x^{(2*n)}), x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{NeQ}[m, -1]$
5375. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)^{(n_.)}]* (b_.)]^{(p_.)}* ((d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[d^{\text{IntPart}[m]}*((d*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*\text{ArcTan}[c*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ (\text{EqQ}[p, 1] \ || \ \text{RationalQ}[m, n])$
5376. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)^{(n_.)}]* (b_.)]^{(p_.)}* ((d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[d^{\text{IntPart}[m]}*((d*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*\text{ArcCot}[c*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ (\text{EqQ}[p, 1] \ || \ \text{RationalQ}[m, n])$
5377. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)^{(n_.)}]* (b_.)]^{(p_.)}* ((d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(d*x)^m*(a + b*\text{ArcTan}[c*x^n])^p, x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x]$
5378. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)^{(n_.)}]* (b_.)]^{(p_.)}* ((d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(d*x)^m*(a + b*\text{ArcCot}[c*x^n])^p, x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x]$
5379. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)]* (b_.)]^{(p_.)}/((d_.) + (e_.)*(x_)), x_Symbol] \rightarrow \text{Simp}[(- (a + b*\text{ArcTan}[c*x])^p)*(\text{Log}[2/(1 + e*(x/d))]/e), x] + \text{Simp}[b*c*(p/e) \text{Int}[(a + b*\text{ArcTan}[c*x])^{(p-1)}*(\text{Log}[2/(1 + e*(x/d))])/(1 + c^2*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{EqQ}[c^2*d^2 + e^2, 0]$
5380. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)]* (b_.)]^{(p_.)}/((d_.) + (e_.)*(x_)), x_Symbol] \rightarrow \text{Simp}[(- (a + b*\text{ArcCot}[c*x])^p)*(\text{Log}[2/(1 + e*(x/d))]/e), x] - \text{Simp}[b*c*(p/e) \text{Int}[(a + b*\text{ArcCot}[c*x])^{(p-1)}*(\text{Log}[2/(1 + e*(x/d))])/(1 + c^2*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{EqQ}[c^2*d^2 + e^2, 0]$

5381. $\text{Int}[(a + \text{ArcTan}[c \cdot x]) \cdot (b + \text{ArcTan}[c \cdot x]) / (d + e \cdot x), x]$
: $\text{Simp}[-(a + b \cdot \text{ArcTan}[c \cdot x]) \cdot (\text{Log}[2/(1 - I \cdot c \cdot x)]/e), x] + (\text{Simp}[(a + b \cdot \text{ArcTan}[c \cdot x]) \cdot (\text{Log}[2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / e), x] + \text{Simp}[b \cdot (c/e) \cdot \text{Int}[\text{Log}[2/(1 - I \cdot c \cdot x)] / (1 + c^2 \cdot x^2), x], x] - \text{Simp}[b \cdot (c/e) \cdot \text{Int}[\text{Log}[2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x)))] / (1 + c^2 \cdot x^2), x], x) / ; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[c^2 \cdot d^2 + e^2, 0]$
5382. $\text{Int}[(a + \text{ArcCot}[c \cdot x]) \cdot (b + \text{ArcCot}[c \cdot x]) / (d + e \cdot x), x]$
: $\text{Simp}[-(a + b \cdot \text{ArcCot}[c \cdot x]) \cdot (\text{Log}[2/(1 - I \cdot c \cdot x)]/e), x] + (\text{Simp}[(a + b \cdot \text{ArcCot}[c \cdot x]) \cdot (\text{Log}[2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / e), x] - \text{Simp}[b \cdot (c/e) \cdot \text{Int}[\text{Log}[2/(1 - I \cdot c \cdot x)] / (1 + c^2 \cdot x^2), x], x] + \text{Simp}[b \cdot (c/e) \cdot \text{Int}[\text{Log}[2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x)))] / (1 + c^2 \cdot x^2), x], x) / ; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[c^2 \cdot d^2 + e^2, 0]$
5383. $\text{Int}[(a + \text{ArcTan}[c \cdot x])^2 \cdot (b + \text{ArcTan}[c \cdot x]) / (d + e \cdot x), x]$
: $\text{Simp}[-(a + b \cdot \text{ArcTan}[c \cdot x])^2 \cdot (\text{Log}[2/(1 - I \cdot c \cdot x)]/e), x] + (\text{Simp}[(a + b \cdot \text{ArcTan}[c \cdot x])^2 \cdot (\text{Log}[2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / e), x] + \text{Simp}[I \cdot b \cdot (a + b \cdot \text{ArcTan}[c \cdot x]) \cdot (\text{PolyLog}[2, 1 - 2/(1 - I \cdot c \cdot x)]/e), x] - \text{Simp}[I \cdot b \cdot (a + b \cdot \text{ArcTan}[c \cdot x]) \cdot (\text{PolyLog}[2, 1 - 2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / e), x] - \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2/(1 - I \cdot c \cdot x)] / (2 \cdot e)), x] + \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / (2 \cdot e), x]) / ; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[c^2 \cdot d^2 + e^2, 0]$
5384. $\text{Int}[(a + \text{ArcCot}[c \cdot x])^2 \cdot (b + \text{ArcCot}[c \cdot x]) / (d + e \cdot x), x]$
: $\text{Simp}[-(a + b \cdot \text{ArcCot}[c \cdot x])^2 \cdot (\text{Log}[2/(1 - I \cdot c \cdot x)]/e), x] + (\text{Simp}[(a + b \cdot \text{ArcCot}[c \cdot x])^2 \cdot (\text{Log}[2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / e), x] - \text{Simp}[I \cdot b \cdot (a + b \cdot \text{ArcCot}[c \cdot x]) \cdot (\text{PolyLog}[2, 1 - 2/(1 - I \cdot c \cdot x)]/e), x] + \text{Simp}[I \cdot b \cdot (a + b \cdot \text{ArcCot}[c \cdot x]) \cdot (\text{PolyLog}[2, 1 - 2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / e), x] - \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2/(1 - I \cdot c \cdot x)] / (2 \cdot e)), x] + \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / (2 \cdot e), x]) / ; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[c^2 \cdot d^2 + e^2, 0]$
5385. $\text{Int}[(a + \text{ArcTan}[c \cdot x])^3 \cdot (b + \text{ArcTan}[c \cdot x]) / (d + e \cdot x), x]$
: $\text{Simp}[-(a + b \cdot \text{ArcTan}[c \cdot x])^3 \cdot (\text{Log}[2/(1 - I \cdot c \cdot x)]/e), x] + (\text{Simp}[(a + b \cdot \text{ArcTan}[c \cdot x])^3 \cdot (\text{Log}[2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / e), x] + \text{Simp}[I \cdot b \cdot (a + b \cdot \text{ArcTan}[c \cdot x])^2 \cdot (\text{PolyLog}[2, 1 - 2/(1 - I \cdot c \cdot x)]/e), x] - \text{Simp}[I \cdot b \cdot (a + b \cdot \text{ArcTan}[c \cdot x])^2 \cdot (\text{PolyLog}[2, 1 - 2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / e), x] - \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2/(1 - I \cdot c \cdot x)] / (2 \cdot e)), x] + \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2 \cdot c \cdot (d + e \cdot x) / ((c \cdot d + I \cdot e) \cdot (1 - I \cdot c \cdot x))]) / (2 \cdot e), x]) / ; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[c^2 \cdot d^2 + e^2, 0]$

- $$e), x] + \text{Simp}[3*I*b*(a + b*\text{ArcTan}[c*x])^2*(\text{PolyLog}[2, 1 - 2/(1 - I*c*x)]/(2*e)), x] - \text{Simp}[3*I*b*(a + b*\text{ArcTan}[c*x])^2*(\text{PolyLog}[2, 1 - 2*c*((d + e*x)/((c*d + I*e)*(1 - I*c*x)))]/(2*e)), x] - \text{Simp}[3*b^2*(a + b*\text{ArcTan}[c*x])*(\text{PolyLog}[3, 1 - 2/(1 - I*c*x)]/(2*e)), x] + \text{Simp}[3*b^2*(a + b*\text{ArcTan}[c*x])*(\text{PolyLog}[3, 1 - 2*c*((d + e*x)/((c*d + I*e)*(1 - I*c*x)))]/(2*e)), x] - \text{Simp}[3*I*b^3*(\text{PolyLog}[4, 1 - 2/(1 - I*c*x)]/(4*e)), x] + \text{Simp}[3*I*b^3*(\text{PolyLog}[4, 1 - 2*c*((d + e*x)/((c*d + I*e)*(1 - I*c*x)))]/(4*e)), x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[c^2*d^2 + e^2, 0]$$
5386. $\text{Int}[(a + \text{ArcCot}[c*x])^3/(d + e*x), x_Symbol] \rightarrow \text{Simp}[(-a + b*\text{ArcCot}[c*x])^3*(\text{Log}[2/(1 - I*c*x)]/e), x] + (\text{Simp}[a + b*\text{ArcCot}[c*x])^3*(\text{Log}[2*c*((d + e*x)/((c*d + I*e)*(1 - I*c*x)))]/e), x] - \text{Simp}[3*I*b*(a + b*\text{ArcCot}[c*x])^2*(\text{PolyLog}[2, 1 - 2/(1 - I*c*x)]/(2*e)), x] + \text{Simp}[3*I*b*(a + b*\text{ArcCot}[c*x])^2*(\text{PolyLog}[2, 1 - 2*c*((d + e*x)/((c*d + I*e)*(1 - I*c*x)))]/(2*e)), x] - \text{Simp}[3*b^2*(a + b*\text{ArcCot}[c*x])*(\text{PolyLog}[3, 1 - 2/(1 - I*c*x)]/(2*e)), x] + \text{Simp}[3*b^2*(a + b*\text{ArcCot}[c*x])*(\text{PolyLog}[3, 1 - 2*c*((d + e*x)/((c*d + I*e)*(1 - I*c*x)))]/(2*e)), x] + \text{Simp}[3*I*b^3*(\text{PolyLog}[4, 1 - 2/(1 - I*c*x)]/(4*e)), x] - \text{Simp}[3*I*b^3*(\text{PolyLog}[4, 1 - 2*c*((d + e*x)/((c*d + I*e)*(1 - I*c*x)))]/(4*e)), x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{NeQ}[c^2*d^2 + e^2, 0]$
5387. $\text{Int}[(a + \text{ArcTan}[c*x])^q/(d + e*x), x_Symbol] \rightarrow \text{Simp}[(d + e*x)^{q+1}*(a + b*\text{ArcTan}[c*x])/(e*(q+1)), x] - \text{Simp}[b*(c/(e*(q+1))) \text{Int}[(d + e*x)^{q+1}/(1 + c^2*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, q\}, x] \&\& \text{NeQ}[q, -1]$
5388. $\text{Int}[(a + \text{ArcCot}[c*x])^q/(d + e*x), x_Symbol] \rightarrow \text{Simp}[(d + e*x)^{q+1}*(a + b*\text{ArcCot}[c*x])/(e*(q+1)), x] + \text{Simp}[b*(c/(e*(q+1))) \text{Int}[(d + e*x)^{q+1}/(1 + c^2*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, q\}, x] \&\& \text{NeQ}[q, -1]$
5389. $\text{Int}[(a + \text{ArcTan}[c*x])^p/(d + e*x)^q, x_Symbol] \rightarrow \text{Simp}[(d + e*x)^{q+1}*(a + b*\text{ArcTan}[c*x])^p/(e*(q+1)), x] - \text{Simp}[b*c*(p/(e*(q+1))) \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTan}[c*x])^p - 1], (d + e*x)^{q+1}/(1 + c^2*x^2), x], x] /; \text{FreeQ}\{a$

- , b, c, d, e}, x] && IGtQ[p, 1] && IntegerQ[q] && NeQ[q, -1]
5390. Int[((a_.) + ArcCot[(c_.)*(x_)]*(b_.))^(p_)*((d_) + (e_.)*(x_))^(q_.),
x_Symbol] :> Simp[(d + e*x)^(q + 1)*((a + b*ArcCot[c*x])^p/(e*(q + 1)
)), x] + Simp[b*c*(p/(e*(q + 1))) Int[ExpandIntegrand[(a + b*ArcCot[
c*x])^(p - 1), (d + e*x)^(q + 1)/(1 + c^2*x^2), x], x], x] /; FreeQ[{a
, b, c, d, e}, x] && IGtQ[p, 1] && IntegerQ[q] && NeQ[q, -1]
5391. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_)]*(b_.))/((d_) + (e_.)*(x_)), x_Sym
bol] :> Simp[Log[d + e*x]*((a + b*ArcTan[c*x^n])/e), x] - Simp[b*c*(n/
e) Int[x^(n - 1)*(Log[d + e*x]/(1 + c^2*x^(2*n))), x], x] /; FreeQ[{
a, b, c, d, e, n}, x] && IntegerQ[n]
5392. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_)]*(b_.))/((d_) + (e_.)*(x_)), x_Sym
bol] :> Simp[Log[d + e*x]*((a + b*ArcCot[c*x^n])/e), x] + Simp[b*c*(n/
e) Int[x^(n - 1)*(Log[d + e*x]/(1 + c^2*x^(2*n))), x], x] /; FreeQ[{
a, b, c, d, e, n}, x] && IntegerQ[n]
5393. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_)]*(b_.))/((d_) + (e_.)*(x_)), x_Sym
bol] :> With[{k = Denominator[n]}, Simp[k Subst[Int[x^(k - 1)*((a +
b*ArcTan[c*x^(k*n)])/(d + e*x^k)), x], x, x^(1/k)], x] /; FreeQ[{a, b
, c, d, e}, x] && FractionQ[n]
5394. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_)]*(b_.))/((d_) + (e_.)*(x_)), x_Sym
bol] :> With[{k = Denominator[n]}, Simp[k Subst[Int[x^(k - 1)*((a +
b*ArcCot[c*x^(k*n)])/(d + e*x^k)), x], x, x^(1/k)], x] /; FreeQ[{a, b
, c, d, e}, x] && FractionQ[n]
5395. Int[((a_.) + ArcTan[(c_.)*(x_)^(n_)]*(b_.))*((d_) + (e_.)*(x_))^(m_.),
x_Symbol] :> Simp[(d + e*x)^(m + 1)*((a + b*ArcTan[c*x^n])/(e*(m + 1)
)), x] - Simp[b*c*(n/(e*(m + 1))) Int[x^(n - 1)*((d + e*x)^(m + 1)/(
1 + c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[m,
-1]
5396. Int[((a_.) + ArcCot[(c_.)*(x_)^(n_)]*(b_.))*((d_) + (e_.)*(x_))^(m_.),
x_Symbol] :> Simp[(d + e*x)^(m + 1)*((a + b*ArcCot[c*x^n])/(e*(m + 1)

- $$\text{)), x] + \text{Simp}[b*c*(n/(e*(m + 1))) \text{ Int}[x^{(n - 1)}*((d + e*x)^{(m + 1)})/(1 + c^2*x^{(2*n)})], x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[m, -1]$$
5397. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)^{(n_)}]*(b_.))^{(p_)}*((d_) + (e_.)*(x_))^{(m_.)}, x_Symbol] \text{ :> } \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTan}[c*x^n])^p, (d + e*x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{IGtQ}[m, 0]$
5398. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)^{(n_)}]*(b_.))^{(p_)}*((d_) + (e_.)*(x_))^{(m_.)}, x_Symbol] \text{ :> } \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCot}[c*x^n])^p, (d + e*x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{IGtQ}[m, 0]$
5399. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)^{(n_)}]*(b_.))^{(p_.)}*((d_.) + (e_.)*(x_))^{(m_.)}, x_Symbol] \text{ :> } \text{Unintegrable}[(d + e*x)^m*(a + b*\text{ArcTan}[c*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
5400. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)^{(n_)}]*(b_.))^{(p_.)}*((d_.) + (e_.)*(x_))^{(m_.)}, x_Symbol] \text{ :> } \text{Unintegrable}[(d + e*x)^m*(a + b*\text{ArcCot}[c*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
5401. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)}*((f_.)*(x_))^{(m_.)} / ((d_.) + (e_.)*(x_)), x_Symbol] \text{ :> } \text{Simp}[f/e \text{ Int}[(f*x)^{(m - 1)}*(a + b*\text{ArcTan}[c*x])^p, x], x] - \text{Simp}[d*(f/e) \text{ Int}[(f*x)^{(m - 1)}*((a + b*\text{ArcTan}[c*x])^p/(d + e*x)), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d^2 + e^2, 0] \&\& \text{GtQ}[m, 0]$
5402. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)}*((f_.)*(x_))^{(m_.)} / ((d_.) + (e_.)*(x_)), x_Symbol] \text{ :> } \text{Simp}[f/e \text{ Int}[(f*x)^{(m - 1)}*(a + b*\text{ArcCot}[c*x])^p, x], x] - \text{Simp}[d*(f/e) \text{ Int}[(f*x)^{(m - 1)}*((a + b*\text{ArcCot}[c*x])^p/(d + e*x)), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d^2 + e^2, 0] \&\& \text{GtQ}[m, 0]$
5403. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)} / ((x_)*((d_) + (e_.)*(x_))), x_Symbol] \text{ :> } \text{Simp}[(a + b*\text{ArcTan}[c*x])^p*(\text{Log}[2 - 2/(1 + e*(x/d))])/d$

-), x] - Simp[b*c*(p/d) Int[(a + b*ArcTan[c*x])^(p - 1)*(Log[2 - 2/(1 + e*(x/d))]/(1 + c^2*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && EqQ[c^2*d^2 + e^2, 0]
5404. Int[((a_.) + ArcCot[(c_.)*(x_)])*(b_.))^(p_.)/((x_)*((d_) + (e_.)*(x_))), x_Symbol] := Simp[(a + b*ArcCot[c*x])^p*(Log[2 - 2/(1 + e*(x/d))]/d), x] + Simp[b*c*(p/d) Int[(a + b*ArcCot[c*x])^(p - 1)*(Log[2 - 2/(1 + e*(x/d))]/(1 + c^2*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && EqQ[c^2*d^2 + e^2, 0]
5405. Int[(((a_.) + ArcTan[(c_.)*(x_)])*(b_.))^(p_.)*((f_.)*(x_))^(m_.)/((d_) + (e_.)*(x_))), x_Symbol] := Simp[1/d Int[(f*x)^m*(a + b*ArcTan[c*x])^p, x], x] - Simp[e/(d*f) Int[(f*x)^(m + 1)*((a + b*ArcTan[c*x])^p/(d + e*x)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && EqQ[c^2*d^2 + e^2, 0] && LtQ[m, -1]
5406. Int[(((a_.) + ArcCot[(c_.)*(x_)])*(b_.))^(p_.)*((f_.)*(x_))^(m_.)/((d_) + (e_.)*(x_))), x_Symbol] := Simp[1/d Int[(f*x)^m*(a + b*ArcCot[c*x])^p, x], x] - Simp[e/(d*f) Int[(f*x)^(m + 1)*((a + b*ArcCot[c*x])^p/(d + e*x)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && EqQ[c^2*d^2 + e^2, 0] && LtQ[m, -1]
5407. Int[((a_.) + ArcTan[(c_.)*(x_)])*(b_.))*((f_.)*(x_))^(m_.)*((d_.) + (e_.)*(x_))^(q_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x)^q, x]}, Simp[(a + b*ArcTan[c*x]) u, x] - Simp[b*c Int[SimplifyIntegrand[u/(1 + c^2*x^2), x], x], x] /; FreeQ[{a, b, c, d, e, f, q}, x] && NeQ[q, -1] && IntegerQ[2*m] && ((IGtQ[m, 0] && IGtQ[q, 0]) || (ILtQ[m + q + 1, 0] && LtQ[m*q, 0]))
5408. Int[((a_.) + ArcCot[(c_.)*(x_)])*(b_.))*((f_.)*(x_))^(m_.)*((d_.) + (e_.)*(x_))^(q_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x)^q, x]}, Simp[(a + b*ArcCot[c*x]) u, x] + Simp[b*c Int[SimplifyIntegrand[u/(1 + c^2*x^2), x], x], x] /; FreeQ[{a, b, c, d, e, f, q}, x] && NeQ[q, -1] && IntegerQ[2*m] && ((IGtQ[m, 0] && IGtQ[q, 0]) || (ILtQ[m + q + 1, 0] && LtQ[m*q, 0]))

5409. $\text{Int}[(a + \text{ArcTan}[c \cdot x]) \cdot (b + (f \cdot x)^m \cdot (d + e \cdot x)^q + (e \cdot x)^q), x_{\text{Symbol}}] := \text{With}[\{u = \text{IntHide}[(f \cdot x)^m \cdot (d + e \cdot x)^q, x]\}, \text{Simp}[(a + b \cdot \text{ArcTan}[c \cdot x])^p u, x] - \text{Simp}[b \cdot c \cdot p \text{ Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcTan}[c \cdot x])^{p-1}, u/(1 + c^2 \cdot x^2), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, q\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{EqQ}[c^2 \cdot d^2 + e^2, 0] \&\& \text{IntegersQ}[m, q] \&\& \text{NeQ}[m, -1] \&\& \text{NeQ}[q, -1] \&\& \text{ILtQ}[m + q + 1, 0] \&\& \text{LtQ}[m \cdot q, 0]$
5410. $\text{Int}[(a + \text{ArcCot}[c \cdot x]) \cdot (b + (f \cdot x)^m \cdot (d + e \cdot x)^q + (e \cdot x)^q), x_{\text{Symbol}}] := \text{With}[\{u = \text{IntHide}[(f \cdot x)^m \cdot (d + e \cdot x)^q, x]\}, \text{Simp}[(a + b \cdot \text{ArcCot}[c \cdot x])^p u, x] + \text{Simp}[b \cdot c \cdot p \text{ Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcCot}[c \cdot x])^{p-1}, u/(1 + c^2 \cdot x^2), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, q\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{EqQ}[c^2 \cdot d^2 + e^2, 0] \&\& \text{IntegersQ}[m, q] \&\& \text{NeQ}[m, -1] \&\& \text{NeQ}[q, -1] \&\& \text{ILtQ}[m + q + 1, 0] \&\& \text{LtQ}[m \cdot q, 0]$
5411. $\text{Int}[(a + \text{ArcTan}[c \cdot x]) \cdot (b + (f \cdot x)^m \cdot (d + e \cdot x)^q + (e \cdot x)^q), x_{\text{Symbol}}] := \text{Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcTan}[c \cdot x])^p, (f \cdot x)^m \cdot (d + e \cdot x)^q, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IntegerQ}[q] \&\& (\text{GtQ}[q, 0] \|\| \text{NeQ}[a, 0] \|\| \text{IntegerQ}[m])$
5412. $\text{Int}[(a + \text{ArcCot}[c \cdot x]) \cdot (b + (f \cdot x)^m \cdot (d + e \cdot x)^q + (e \cdot x)^q), x_{\text{Symbol}}] := \text{Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcCot}[c \cdot x])^p, (f \cdot x)^m \cdot (d + e \cdot x)^q, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IntegerQ}[q] \&\& (\text{GtQ}[q, 0] \|\| \text{NeQ}[a, 0] \|\| \text{IntegerQ}[m])$
5413. $\text{Int}[(a + \text{ArcTan}[c \cdot x]) \cdot (b + (d + e \cdot x^2)^q + (e \cdot x^2)^q), x_{\text{Symbol}}] := \text{Simp}[(-b) \cdot ((d + e \cdot x^2)^q / (2 \cdot c \cdot q \cdot (2 \cdot q + 1))), x] + (\text{Simp}[x \cdot (d + e \cdot x^2)^q \cdot (a + b \cdot \text{ArcTan}[c \cdot x]) / (2 \cdot q + 1), x] + \text{Simp}[2 \cdot d \cdot (q / (2 \cdot q + 1)) \text{ Int}[(d + e \cdot x^2)^{q-1} \cdot (a + b \cdot \text{ArcTan}[c \cdot x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2 \cdot d] \&\& \text{GtQ}[q, 0]$
5414. $\text{Int}[(a + \text{ArcCot}[c \cdot x]) \cdot (b + (d + e \cdot x^2)^q + (e \cdot x^2)^q), x_{\text{Symbol}}] := \text{Simp}[b \cdot ((d + e \cdot x^2)^q / (2 \cdot c \cdot q \cdot (2 \cdot q + 1))), x] + (\text{Simp}[x \cdot (d + e \cdot x^2)^q \cdot (a + b \cdot \text{ArcCot}[c \cdot x]) / (2 \cdot q + 1), x] + \text{Simp}[2 \cdot d \cdot (q / (2 \cdot q + 1))$

- $\text{Int}[(d + e*x^2)^{(q-1)}*(a + b*\text{ArcCot}[c*x]), x], x] /;$
 $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[q, 0]$
5415. $\text{Int}[(a + \text{ArcTan}[(c_*)(x_)]*(b_))^{(p_)}*((d_)+(e_)*(x_)^2)^{(q_)}, x_Symbol] \rightarrow$
 $\text{Simp}[(-b)*p*(d + e*x^2)^q*((a + b*\text{ArcTan}[c*x])^{(p-1)}/(2*c*q*(2*q+1))), x] +$
 $(\text{Simp}[x*(d + e*x^2)^q*((a + b*\text{ArcTan}[c*x])^p/(2*q+1)), x] +$
 $\text{Simp}[2*d*(q/(2*q+1)) \ \text{Int}[(d + e*x^2)^{(q-1)}*(a + b*\text{ArcTan}[c*x])^p, x], x] +$
 $\text{Simp}[b^2*d*p*((p-1)/(2*q*(2*q+1))) \ \text{Int}[(d + e*x^2)^{(q-1)}*(a + b*\text{ArcTan}[c*x])^{(p-2)}, x], x]) /;$
 $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{GtQ}[p, 1]$
5416. $\text{Int}[(a + \text{ArcCot}[(c_*)(x_)]*(b_))^{(p_)}*((d_)+(e_)*(x_)^2)^{(q_)}, x_Symbol] \rightarrow$
 $\text{Simp}[b*p*(d + e*x^2)^q*((a + b*\text{ArcCot}[c*x])^{(p-1)}/(2*c*q*(2*q+1))), x] +$
 $(\text{Simp}[x*(d + e*x^2)^q*((a + b*\text{ArcCot}[c*x])^p/(2*q+1)), x] +$
 $\text{Simp}[2*d*(q/(2*q+1)) \ \text{Int}[(d + e*x^2)^{(q-1)}*(a + b*\text{ArcCot}[c*x])^p, x], x] +$
 $\text{Simp}[b^2*d*p*((p-1)/(2*q*(2*q+1))) \ \text{Int}[(d + e*x^2)^{(q-1)}*(a + b*\text{ArcCot}[c*x])^{(p-2)}, x], x]) /;$
 $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{GtQ}[p, 1]$
5417. $\text{Int}[1/(((a_)+(c_*)(x_)]*(b_))*((d_)+(e_)*(x_)^2)), x_Symbol] \rightarrow$
 $\text{Simp}[\text{Log}[\text{RemoveContent}[a + b*\text{ArcTan}[c*x], x]]/(b*c*d), x] /;$
 $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d]$
5418. $\text{Int}[1/(((a_)+(c_*)(x_)]*(b_))*((d_)+(e_)*(x_)^2)), x_Symbol] \rightarrow$
 $\text{Simp}[-\text{Log}[\text{RemoveContent}[a + b*\text{ArcCot}[c*x], x]]/(b*c*d), x] /;$
 $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d]$
5419. $\text{Int}[(a + \text{ArcTan}[(c_*)(x_)]*(b_))^{(p_)}((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow$
 $\text{Simp}[(a + b*\text{ArcTan}[c*x])^{(p+1)}/(b*c*d*(p+1)), x] /;$
 $\text{FreeQ}[\{a, b, c, d, e, p\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{NeQ}[p, -1]$
5420. $\text{Int}[(a + \text{ArcCot}[(c_*)(x_)]*(b_))^{(p_)}((d_)+(e_)*(x_)^2), x_Symbol] \rightarrow$
 $\text{Simp}[-(a + b*\text{ArcCot}[c*x])^{(p+1)}/(b*c*d*(p+1)), x] /;$
 $\text{FreeQ}[\{a, b, c, d, e, p\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{NeQ}[p, -1]$

5421. $\text{Int}[\frac{(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.)}{\sqrt{(d_.) + (e_.)*(x_)^2}}, x_Symbol] \rightarrow \text{Simp}[-2*I*(a + b*\text{ArcTan}[c*x])*(\text{ArcTan}[\sqrt{1 + I*c*x}/\sqrt{1 - I*c*x}]/(c*\sqrt{d}))], x] + (\text{Simp}[I*b*(\text{PolyLog}[2, (-I)*(\sqrt{1 + I*c*x})/\sqrt{1 - I*c*x}])]/(c*\sqrt{d}))], x] - \text{Simp}[I*b*(\text{PolyLog}[2, I*(\sqrt{1 + I*c*x})/\sqrt{1 - I*c*x}])]/(c*\sqrt{d}))], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[d, 0]$
5422. $\text{Int}[\frac{(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.)}{\sqrt{(d_.) + (e_.)*(x_)^2}}, x_Symbol] \rightarrow \text{Simp}[-2*I*(a + b*\text{ArcCot}[c*x])*(\text{ArcTan}[\sqrt{1 + I*c*x}/\sqrt{1 - I*c*x}]/(c*\sqrt{d}))], x] + (-\text{Simp}[I*b*(\text{PolyLog}[2, (-I)*(\sqrt{1 + I*c*x})/\sqrt{1 - I*c*x}])]/(c*\sqrt{d}))], x] + \text{Simp}[I*b*(\text{PolyLog}[2, I*(\sqrt{1 + I*c*x})/\sqrt{1 - I*c*x}])]/(c*\sqrt{d}))], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[d, 0]$
5423. $\text{Int}[\frac{(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.)^{(p_.)}}{\sqrt{(d_.) + (e_.)*(x_)^2}}, x_Symbol] \rightarrow \text{Simp}[1/(c*\sqrt{d}) \text{ Subst}[\text{Int}[(a + b*x)^p*\text{Sec}[x], x], x, \text{ArcTan}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[p, 0] \&\& \text{GtQ}[d, 0]$
5424. $\text{Int}[\frac{(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.)^{(p_.)}}{\sqrt{(d_.) + (e_.)*(x_)^2}}, x_Symbol] \rightarrow \text{Simp}[(-x)*(\sqrt{1 + 1/(c^2*x^2)})/\sqrt{d + e*x^2}) \text{ Subst}[\text{Int}[(a + b*x)^p*\text{Csc}[x], x], x, \text{ArcCot}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& \text{GtQ}[d, 0]$
5425. $\text{Int}[\frac{(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.)^{(p_.)}}{\sqrt{(d_.) + (e_.)*(x_)^2}}, x_Symbol] \rightarrow \text{Simp}[\sqrt{1 + c^2*x^2}/\sqrt{d + e*x^2} \text{ Int}[(a + b*\text{ArcTan}[c*x])^p/\sqrt{1 + c^2*x^2}], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& !\text{GtQ}[d, 0]$
5426. $\text{Int}[\frac{(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.)^{(p_.)}}{\sqrt{(d_.) + (e_.)*(x_)^2}}, x_Symbol] \rightarrow \text{Simp}[\sqrt{1 + c^2*x^2}/\sqrt{d + e*x^2} \text{ Int}[(a + b*\text{ArcCot}[c*x])^p/\sqrt{1 + c^2*x^2}], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& !\text{GtQ}[d, 0]$
5427. $\text{Int}[\frac{(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.)^{(p_.)}}{((d_.) + (e_.)*(x_)^2)^2}, x_Symbol] \rightarrow \text{Simp}[x*((a + b*\text{ArcTan}[c*x])^p/(2*d*(d + e*x^2))), x] + (\text{Simp}[(a + b*\text{ArcTan}[c*x])^{(p + 1)}/(2*b*c*d^2*(p + 1)), x] - \text{Simp}[b*c*(p/$

- 2) $\text{Int}[x*((a + b*\text{ArcTan}[c*x])^{(p-1)/(d + e*x^2)^2}), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[p, 0]$
5428. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.)]^{(p_.)/((d_.) + (e_.)*(x_.)^2)^2}, x_Symbol] \rightarrow \text{Simp}[x*((a + b*\text{ArcCot}[c*x])^p/(2*d*(d + e*x^2))), x] + (-\text{Simp}[(a + b*\text{ArcCot}[c*x])^{(p+1)/(2*b*c*d^2*(p+1))}, x] + \text{Simp}[b*c*(p/2) \ \text{Int}[x*((a + b*\text{ArcCot}[c*x])^{(p-1)/(d + e*x^2)^2}), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[p, 0]$
5429. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.)]/((d_.) + (e_.)*(x_.)^2)^{3/2}, x_Symbol] \rightarrow \text{Simp}[b/(c*d*\text{Sqrt}[d + e*x^2]), x] + \text{Simp}[x*((a + b*\text{ArcTan}[c*x])/(d*\text{Sqrt}[d + e*x^2])), x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d]$
5430. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.)]/((d_.) + (e_.)*(x_.)^2)^{3/2}, x_Symbol] \rightarrow \text{Simp}[-b/(c*d*\text{Sqrt}[d + e*x^2]), x] + \text{Simp}[x*((a + b*\text{ArcCot}[c*x])/(d*\text{Sqrt}[d + e*x^2])), x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d]$
5431. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.)]*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[b*((d + e*x^2)^{(q+1})/(4*c*d*(q+1)^2)), x] + (-\text{Simp}[x*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcTan}[c*x])/(2*d*(q+1))), x] + \text{Simp}[(2*q+3)/(2*d*(q+1)) \ \text{Int}[(d + e*x^2)^{(q+1)}*(a + b*\text{ArcTan}[c*x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{NeQ}[q, -3/2]$
5432. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.)]*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[(-b)*((d + e*x^2)^{(q+1})/(4*c*d*(q+1)^2)), x] + (-\text{Simp}[x*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcCot}[c*x])/(2*d*(q+1))), x] + \text{Simp}[(2*q+3)/(2*d*(q+1)) \ \text{Int}[(d + e*x^2)^{(q+1)}*(a + b*\text{ArcCot}[c*x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{NeQ}[q, -3/2]$
5433. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.)]^{(p_.)/((d_.) + (e_.)*(x_.)^2)^{3/2}}, x_Symbol] \rightarrow \text{Simp}[b*p*((a + b*\text{ArcTan}[c*x])^{(p-1)/(c*d*\text{Sqrt}[d + e*x^2])}), x] + (\text{Simp}[x*((a + b*\text{ArcTan}[c*x])^p/(d*\text{Sqrt}[d + e*x^2])), x] - \text{Simp}[b^2*p*(p-1) \ \text{Int}[(a + b*\text{ArcTan}[c*x])^{(p-2)/(d + e*x^2)^{3/2}}$

-), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && GtQ[p, 1]
5434. Int[((a_.) + ArcCot[(c_.)*(x_)]*(b_.))^ (p_)/((d_) + (e_.)*(x_)^2)^(3/2), x_Symbol] :> Simp[(-b)*p*((a + b*ArcCot[c*x])^(p - 1)/(c*d*Sqrt[d + e*x^2])), x] + (Simp[x*((a + b*ArcCot[c*x])^p/(d*Sqrt[d + e*x^2])), x] - Simp[b^2*p*(p - 1) Int[(a + b*ArcCot[c*x])^(p - 2)/(d + e*x^2)^(3/2), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && GtQ[p, 1]
5435. Int[((a_.) + ArcTan[(c_.)*(x_)]*(b_.))^ (p_)*((d_) + (e_.)*(x_)^2)^(q_), x_Symbol] :> Simp[b*p*(d + e*x^2)^(q + 1)*((a + b*ArcTan[c*x])^(p - 1)/(4*c*d*(q + 1)^2)), x] + (-Simp[x*(d + e*x^2)^(q + 1)*((a + b*ArcTan[c*x])^p/(2*d*(q + 1))), x] + Simp[(2*q + 3)/(2*d*(q + 1)) Int[(d + e*x^2)^(q + 1)*(a + b*ArcTan[c*x])^p, x], x] - Simp[b^2*p*((p - 1)/(4*(q + 1)^2)) Int[(d + e*x^2)^q*(a + b*ArcTan[c*x])^(p - 2), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && LtQ[q, -1] && GtQ[p, 1] && NeQ[q, -3/2]
5436. Int[((a_.) + ArcCot[(c_.)*(x_)]*(b_.))^ (p_)*((d_) + (e_.)*(x_)^2)^(q_), x_Symbol] :> Simp[(-b)*p*(d + e*x^2)^(q + 1)*((a + b*ArcCot[c*x])^(p - 1)/(4*c*d*(q + 1)^2)), x] + (-Simp[x*(d + e*x^2)^(q + 1)*((a + b*ArcCot[c*x])^p/(2*d*(q + 1))), x] + Simp[(2*q + 3)/(2*d*(q + 1)) Int[(d + e*x^2)^(q + 1)*(a + b*ArcCot[c*x])^p, x], x] - Simp[b^2*p*((p - 1)/(4*(q + 1)^2)) Int[(d + e*x^2)^q*(a + b*ArcCot[c*x])^(p - 2), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && LtQ[q, -1] && GtQ[p, 1] && NeQ[q, -3/2]
5437. Int[((a_.) + ArcTan[(c_.)*(x_)]*(b_.))^ (p_)*((d_) + (e_.)*(x_)^2)^(q_), x_Symbol] :> Simp[(d + e*x^2)^(q + 1)*((a + b*ArcTan[c*x])^(p + 1)/(b*c*d*(p + 1))), x] - Simp[2*c*((q + 1)/(b*(p + 1))) Int[x*(d + e*x^2)^q*(a + b*ArcTan[c*x])^(p + 1), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && LtQ[q, -1] && LtQ[p, -1]
5438. Int[((a_.) + ArcCot[(c_.)*(x_)]*(b_.))^ (p_)*((d_) + (e_.)*(x_)^2)^(q_), x_Symbol] :> Simp[(-(d + e*x^2)^(q + 1))*((a + b*ArcCot[c*x])^(p + 1)/(b*c*d*(p + 1))), x] + Simp[2*c*((q + 1)/(b*(p + 1))) Int[x*(d + e*x^2)^q*(a + b*ArcCot[c*x])^(p + 1), x], x] /; FreeQ[{a, b, c, d, e},

- $x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{LtQ}[q, -1] \&\& \text{LtQ}[p, -1]$
5439. $\text{Int}[\{(a_{_}) + \text{ArcTan}[(c_{_})*(x_{_})]*(b_{_})\}^{(p_{_})} * \{(d_{_}) + (e_{_})*(x_{_})^2\}^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[d^q/c \text{ Subst}[\text{Int}[(a + b*x)^p/\text{Cos}[x]^{2*(q + 1)}], x], x, \text{ArcTan}[c*x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{ILtQ}[2*(q + 1), 0] \&\& (\text{IntegerQ}[q] \parallel \text{GtQ}[d, 0])$
5440. $\text{Int}[\{(a_{_}) + \text{ArcTan}[(c_{_})*(x_{_})]*(b_{_})\}^{(p_{_})} * \{(d_{_}) + (e_{_})*(x_{_})^2\}^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[d^{(q + 1/2)} * (\text{Sqrt}[1 + c^2*x^2]/\text{Sqrt}[d + e*x^2]) \text{ Int}[(1 + c^2*x^2)^q * (a + b*\text{ArcTan}[c*x])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{ILtQ}[2*(q + 1), 0] \&\& !(\text{IntegerQ}[q] \parallel \text{GtQ}[d, 0])$
5441. $\text{Int}[\{(a_{_}) + \text{ArcCot}[(c_{_})*(x_{_})]*(b_{_})\}^{(p_{_})} * \{(d_{_}) + (e_{_})*(x_{_})^2\}^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[-d^q/c \text{ Subst}[\text{Int}[(a + b*x)^p/\text{Sin}[x]^{2*(q + 1)}], x], x, \text{ArcCot}[c*x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{ILtQ}[2*(q + 1), 0] \&\& \text{IntegerQ}[q]$
5442. $\text{Int}[\{(a_{_}) + \text{ArcCot}[(c_{_})*(x_{_})]*(b_{_})\}^{(p_{_})} * \{(d_{_}) + (e_{_})*(x_{_})^2\}^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[(-d^{(q + 1/2)}) * x * (\text{Sqrt}[(1 + c^2*x^2)/(c^2*x^2)]/\text{Sqrt}[d + e*x^2]) \text{ Subst}[\text{Int}[(a + b*x)^p/\text{Sin}[x]^{2*(q + 1)}], x], x, \text{ArcCot}[c*x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{ILtQ}[2*(q + 1), 0] \&\& !\text{IntegerQ}[q]$
5443. $\text{Int}[\text{ArcTan}[(c_{_})*(x_{_})]/\{(d_{_}) + (e_{_})*(x_{_})^2\}, x_Symbol] \rightarrow \text{Simp}[I/2 \text{ Int}[\text{Log}[1 - I*c*x]/(d + e*x^2), x], x] - \text{Simp}[I/2 \text{ Int}[\text{Log}[1 + I*c*x]/(d + e*x^2), x], x] /; \text{FreeQ}[\{c, d, e\}, x]$
5444. $\text{Int}[\text{ArcCot}[(c_{_})*(x_{_})]/\{(d_{_}) + (e_{_})*(x_{_})^2\}, x_Symbol] \rightarrow \text{Simp}[I/2 \text{ Int}[\text{Log}[1 - I/(c*x)]/(d + e*x^2), x], x] - \text{Simp}[I/2 \text{ Int}[\text{Log}[1 + I/(c*x)]/(d + e*x^2), x], x] /; \text{FreeQ}[\{c, d, e\}, x]$
5445. $\text{Int}[(\text{ArcTan}[(c_{_})*(x_{_})]*(b_{_}) + (a_{_}))/\{(d_{_}) + (e_{_})*(x_{_})^2\}, x_Symbol] \rightarrow \text{Simp}[a \text{ Int}[1/(d + e*x^2), x], x] + \text{Simp}[b \text{ Int}[\text{ArcTan}[c*x]/(d + e*x^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x]$

5446. $\text{Int}[(\text{ArcCot}[(c_)(x_)]*(b_)) + (a_)]/((d_)+(e_)(x_)^2), x_Symbol]$
 $]:> \text{Simp}[a \text{ Int}[1/(d + e*x^2), x], x] + \text{Simp}[b \text{ Int}[\text{ArcCot}[c*x]/(d + e*x^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x]$
5447. $\text{Int}[(a_)+\text{ArcTan}[(c_)(x_)]*(b_)]*((d_)+(e_)(x_)^2)^{(q_)}, x_Symbol]$
 $]:> \text{With}[\{u = \text{IntHide}[(d + e*x^2)^q, x]\}, \text{Simp}[(a + b*\text{ArcTan}[c*x]) u, x] - \text{Simp}[b*c \text{ Int}[\text{SimplifyIntegrand}[u/(1 + c^2*x^2), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& (\text{IntegerQ}[q] \|\| \text{ILtQ}[q + 1/2, 0])$
5448. $\text{Int}[(a_)+\text{ArcCot}[(c_)(x_)]*(b_)]*((d_)+(e_)(x_)^2)^{(q_)}, x_Symbol]$
 $]:> \text{With}[\{u = \text{IntHide}[(d + e*x^2)^q, x]\}, \text{Simp}[(a + b*\text{ArcCot}[c*x]) u, x] + \text{Simp}[b*c \text{ Int}[\text{SimplifyIntegrand}[u/(1 + c^2*x^2), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& (\text{IntegerQ}[q] \|\| \text{ILtQ}[q + 1/2, 0])$
5449. $\text{Int}[(a_)+\text{ArcTan}[(c_)(x_)]*(b_)]^{(p_)}*((d_)+(e_)(x_)^2)^{(q_)}, x_Symbol]$
 $]:> \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTan}[c*x])^p, (d + e*x^2)^q], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IGtQ}[p, 0]$
5450. $\text{Int}[(a_)+\text{ArcCot}[(c_)(x_)]*(b_)]^{(p_)}*((d_)+(e_)(x_)^2)^{(q_)}, x_Symbol]$
 $]:> \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCot}[c*x])^p, (d + e*x^2)^q], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IGtQ}[p, 0]$
5451. $\text{Int}[(a_)+\text{ArcTan}[(c_)(x_)]*(b_)]^{(p_)}*((f_)(x_))^{(m_)}/((d_)+(e_)(x_)^2), x_Symbol]$
 $]:> \text{Simp}[f^2/e \text{ Int}[(f*x)^{(m-2)}*(a + b*\text{ArcTan}[c*x])^p, x], x] - \text{Simp}[d*(f^2/e) \text{ Int}[(f*x)^{(m-2)}*((a + b*\text{ArcTan}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{GtQ}[m, 1]$
5452. $\text{Int}[(a_)+\text{ArcCot}[(c_)(x_)]*(b_)]^{(p_)}*((f_)(x_))^{(m_)}/((d_)+(e_)(x_)^2), x_Symbol]$
 $]:> \text{Simp}[f^2/e \text{ Int}[(f*x)^{(m-2)}*(a + b*\text{ArcCot}[c*x])^p, x], x] - \text{Simp}[d*(f^2/e) \text{ Int}[(f*x)^{(m-2)}*((a + b*\text{ArcCot}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{GtQ}[m, 1]$

5453. $\text{Int}[(((a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)}*((f_.)*(x_))^{(m_)})/((d_.) + (e_.)*(x_)^2), x_Symbol] := \text{Simp}[1/d \text{ Int}[(f*x)^m*(a + b*\text{ArcTan}[c*x])^p, x], x] - \text{Simp}[e/(d*f^2) \text{ Int}[(f*x)^{(m+2)}*((a + b*\text{ArcTan}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -1]$
5454. $\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)}*((f_.)*(x_))^{(m_)})/((d_.) + (e_.)*(x_)^2), x_Symbol] := \text{Simp}[1/d \text{ Int}[(f*x)^m*(a + b*\text{ArcCot}[c*x])^p, x], x] - \text{Simp}[e/(d*f^2) \text{ Int}[(f*x)^{(m+2)}*((a + b*\text{ArcCot}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -1]$
5455. $\text{Int}[(((a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)}*(x_))/((d_.) + (e_.)*(x_)^2), x_Symbol] := \text{Simp}[(-I)*((a + b*\text{ArcTan}[c*x])^{(p+1)}/(b*e*(p+1))), x] - \text{Simp}[1/(c*d) \text{ Int}[(a + b*\text{ArcTan}[c*x])^p/(I - c*x), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0]$
5456. $\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)}*(x_))/((d_.) + (e_.)*(x_)^2), x_Symbol] := \text{Simp}[I*((a + b*\text{ArcCot}[c*x])^{(p+1)}/(b*e*(p+1))), x] - \text{Simp}[1/(c*d) \text{ Int}[(a + b*\text{ArcCot}[c*x])^p/(I - c*x), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0]$
5457. $\text{Int}[(((a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)}*(x_))/((d_.) + (e_.)*(x_)^2), x_Symbol] := \text{Simp}[x*((a + b*\text{ArcTan}[c*x])^{(p+1)}/(b*c*d*(p+1))), x] - \text{Simp}[1/(b*c*d*(p+1)) \text{ Int}[(a + b*\text{ArcTan}[c*x])^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& !\text{IGtQ}[p, 0] \&\& \text{NeQ}[p, -1]$
5458. $\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)}*(x_))/((d_.) + (e_.)*(x_)^2), x_Symbol] := \text{Simp}[(-x)*((a + b*\text{ArcCot}[c*x])^{(p+1)}/(b*c*d*(p+1))), x] + \text{Simp}[1/(b*c*d*(p+1)) \text{ Int}[(a + b*\text{ArcCot}[c*x])^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& !\text{IGtQ}[p, 0] \&\& \text{NeQ}[p, -1]$
5459. $\text{Int}[((a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)}/((x_)*((d_.) + (e_.)*(x_)^2)), x_Symbol] := \text{Simp}[(-I)*((a + b*\text{ArcTan}[c*x])^{(p+1)}/(b*d*(p+1))), x] + \text{Simp}[I/d \text{ Int}[(a + b*\text{ArcTan}[c*x])^p/(x*(I + c*x)), x], x] /;$

FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && GtQ[p, 0]

5460. Int[((a_.) + ArcCot[(c_.)*(x_)]*(b_.))^ (p_.)/((x_)*((d_) + (e_.)*(x_)^2)), x_Symbol] :> Simp[I*((a + b*ArcCot[c*x])^(p + 1)/(b*d*(p + 1))), x] + Simp[I/d Int[(a + b*ArcCot[c*x])^p/(x*(I + c*x)), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && GtQ[p, 0]

5461. Int[(((a_.) + ArcTan[(c_.)*(x_)]*(b_.))^ (p_.)*((f_.)*(x_))^(m_.))/((d_) + (e_.)*(x_)^2), x_Symbol] :> Simp[(f*x)^m*((a + b*ArcTan[c*x])^(p + 1)/(b*c*d*(p + 1))), x] - Simp[f*(m/(b*c*d*(p + 1))) Int[(f*x)^(m - 1)*(a + b*ArcTan[c*x])^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[e, c^2*d] && LtQ[p, -1]

5462. Int[(((a_.) + ArcCot[(c_.)*(x_)]*(b_.))^ (p_.)*((f_.)*(x_))^(m_.))/((d_) + (e_.)*(x_)^2), x_Symbol] :> Simp[(-(f*x)^m*((a + b*ArcCot[c*x])^(p + 1)/(b*c*d*(p + 1))), x] + Simp[f*(m/(b*c*d*(p + 1))) Int[(f*x)^(m - 1)*(a + b*ArcCot[c*x])^(p + 1), x], x] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[e, c^2*d] && LtQ[p, -1]

5463. Int[(((a_.) + ArcTan[(c_.)*(x_)]*(b_.))*(x_)^(m_.))/((d_) + (e_.)*(x_)^2), x_Symbol] :> Int[ExpandIntegrand[a + b*ArcTan[c*x], x^m/(d + e*x^2), x], x] /; FreeQ[{a, b, c, d, e}, x] && IntegerQ[m] && !(EqQ[m, 1] && NeQ[a, 0])

5464. Int[(((a_.) + ArcCot[(c_.)*(x_)]*(b_.))*(x_)^(m_.))/((d_) + (e_.)*(x_)^2), x_Symbol] :> Int[ExpandIntegrand[a + b*ArcCot[c*x], x^m/(d + e*x^2), x], x] /; FreeQ[{a, b, c, d, e}, x] && IntegerQ[m] && !(EqQ[m, 1] && NeQ[a, 0])

5465. Int[((a_.) + ArcTan[(c_.)*(x_)]*(b_.))^ (p_.)*(x_)*((d_) + (e_.)*(x_)^2)^(q_.), x_Symbol] :> Simp[(d + e*x^2)^(q + 1)*((a + b*ArcTan[c*x])^p/(2*e*(q + 1))), x] - Simp[b*(p/(2*c*(q + 1))) Int[(d + e*x^2)^q*(a + b*ArcTan[c*x])^(p - 1), x], x] /; FreeQ[{a, b, c, d, e, q}, x] && EqQ[e, c^2*d] && GtQ[p, 0] && NeQ[q, -1]

5466. $\text{Int}[\left((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}(x_{\cdot})\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e x^2)^{(q+1)}\left((a + b \text{ArcCot}[c x])^p / (2 e (q+1))\right), x] + \text{Simp}[b(p/(2 c (q+1))) \text{Int}[(d + e x^2)^q (a + b \text{ArcCot}[c x])^{(p-1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, q\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[q, -1]$
5467. $\text{Int}[\left((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}(x_{\cdot}) / \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \left((a + b \text{ArcTan}[c x])^{(p+1)} / (b c d (p+1) (d + e x^2))\right), x] + (-\text{Simp}[(1 - c^2 x^2) \left((a + b \text{ArcTan}[c x])^{(p+2)} / (b^2 e (p+1) (p+2) (d + e x^2))\right), x] - \text{Simp}[4 / (b^2 (p+1) (p+2)) \text{Int}[x \left((a + b \text{ArcTan}[c x])^{(p+2)} / (d + e x^2)^2\right), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2]$
5468. $\text{Int}[\left((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}(x_{\cdot}) / \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-x) \left((a + b \text{ArcCot}[c x])^{(p+1)} / (b c d (p+1) (d + e x^2))\right), x] + (-\text{Simp}[(1 - c^2 x^2) \left((a + b \text{ArcCot}[c x])^{(p+2)} / (b^2 e (p+1) (p+2) (d + e x^2))\right), x] - \text{Simp}[4 / (b^2 (p+1) (p+2)) \text{Int}[x \left((a + b \text{ArcCot}[c x])^{(p+2)} / (d + e x^2)^2\right), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2]$
5469. $\text{Int}[\left((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right) (x_{\cdot})^2 \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b) \left((d + e x^2)^{(q+1)} / (4 c^3 d (q+1)^2)\right), x] + (\text{Simp}[x (d + e x^2)^{(q+1)} \left((a + b \text{ArcTan}[c x]) / (2 c^2 d (q+1))\right), x] - \text{Simp}[1 / (2 c^2 d (q+1)) \text{Int}[(d + e x^2)^{(q+1)} (a + b \text{ArcTan}[c x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{LtQ}[q, -1] \&\& \text{NeQ}[q, -5/2]$
5470. $\text{Int}[\left((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right) (x_{\cdot})^2 \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[b \left((d + e x^2)^{(q+1)} / (4 c^3 d (q+1)^2)\right), x] + (\text{Simp}[x (d + e x^2)^{(q+1)} \left((a + b \text{ArcCot}[c x]) / (2 c^2 d (q+1))\right), x] - \text{Simp}[1 / (2 c^2 d (q+1)) \text{Int}[(d + e x^2)^{(q+1)} (a + b \text{ArcCot}[c x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{LtQ}[q, -1] \&\& \text{NeQ}[q, -5/2]$
5471. $\text{Int}[\left((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} (x_{\cdot})^2 / \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b \text{ArcTan}[c x])^{(p+1)} / (2 b c^3 d^2 (p+1)), x] + (-\text{Simp}[x \left((a + b \text{ArcTan}[c x])^p / (2 c^2 d (d + e x^2))\right), x]$

- $$] + \text{Simp}[b*(p/(2*c)) \text{ Int}[x*((a + b*\text{ArcTan}[c*x])^(p - 1)/(d + e*x^2)^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[p, 0]$$
5472.
$$\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.))^(p_.)*(x_.)^2)/((d_.) + (e_.)*(x_.)^2)^2, x_Symbol] \rightarrow \text{Simp}[-(a + b*\text{ArcCot}[c*x])^(p + 1)/(2*b*c^3*d^2*(p + 1)), x] + (-\text{Simp}[x*((a + b*\text{ArcCot}[c*x])^p/(2*c^2*d*(d + e*x^2))), x] - \text{Simp}[b*(p/(2*c)) \text{ Int}[x*((a + b*\text{ArcCot}[c*x])^(p - 1)/(d + e*x^2)^2), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[p, 0]$$
5473.
$$\text{Int}[((a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.))*((f_.)*(x_.))^(m_.)*((d_.) + (e_.)*(x_.)^2)^(q_.), x_Symbol] \rightarrow \text{Simp}[b*(f*x)^m*((d + e*x^2)^(q + 1)/(c*d*m^2)), x] + (-\text{Simp}[f*(f*x)^(m - 1)*(d + e*x^2)^(q + 1)*((a + b*\text{ArcTan}[c*x])/(c^2*d*m)), x] + \text{Simp}[f^2*((m - 1)/(c^2*d*m)) \text{ Int}[(f*x)^(m - 2)*(d + e*x^2)^(q + 1)*(a + b*\text{ArcTan}[c*x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{EqQ}[m + 2*q + 2, 0] \ \&\& \ \text{LtQ}[q, -1]$$
5474.
$$\text{Int}[((a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.))*((f_.)*(x_.))^(m_.)*((d_.) + (e_.)*(x_.)^2)^(q_.), x_Symbol] \rightarrow \text{Simp}[(-b)*(f*x)^m*((d + e*x^2)^(q + 1)/(c*d*m^2)), x] + (-\text{Simp}[f*(f*x)^(m - 1)*(d + e*x^2)^(q + 1)*((a + b*\text{ArcCot}[c*x])/(c^2*d*m)), x] + \text{Simp}[f^2*((m - 1)/(c^2*d*m)) \text{ Int}[(f*x)^(m - 2)*(d + e*x^2)^(q + 1)*(a + b*\text{ArcCot}[c*x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{EqQ}[m + 2*q + 2, 0] \ \&\& \ \text{LtQ}[q, -1]$$
5475.
$$\text{Int}[((a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.))^(p_.)*((f_.)*(x_.))^(m_.)*((d_.) + (e_.)*(x_.)^2)^(q_.), x_Symbol] \rightarrow \text{Simp}[b*p*(f*x)^m*(d + e*x^2)^(q + 1)*((a + b*\text{ArcTan}[c*x])^(p - 1)/(c*d*m^2)), x] + (-\text{Simp}[f*(f*x)^(m - 1)*(d + e*x^2)^(q + 1)*((a + b*\text{ArcTan}[c*x])^p/(c^2*d*m)), x] + \text{Simp}[f^2*((m - 1)/(c^2*d*m)) \text{ Int}[(f*x)^(m - 2)*(d + e*x^2)^(q + 1)*(a + b*\text{ArcTan}[c*x])^p, x], x] - \text{Simp}[b^2*p*((p - 1)/m^2) \text{ Int}[(f*x)^m*(d + e*x^2)^q*(a + b*\text{ArcTan}[c*x])^(p - 2), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{EqQ}[m + 2*q + 2, 0] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{GtQ}[p, 1]$$
5476.
$$\text{Int}[((a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.))^(p_.)*((f_.)*(x_.))^(m_.)*((d_.) + (e_.)*(x_.)^2)^(q_.), x_Symbol] \rightarrow \text{Simp}[(-b)*p*(f*x)^m*(d + e*x^2)^(q + 1)*((a + b*\text{ArcCot}[c*x])^(p - 1)/(c*d*m^2)), x] + (-\text{Simp}[f*(f*x)^(m - 1)$$

- $$\begin{aligned}
 &)*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcCot}[c*x])^p/(c^2*d*m)), x] + \text{Simp}[f^2 \\
 & *((m - 1)/(c^2*d*m) \text{Int}[(f*x)^{(m - 2)}*(d + e*x^2)^{(q + 1)}*(a + b*\text{Ar} \\
 & \text{cCot}[c*x])^p, x], x] - \text{Simp}[b^2*p*((p - 1)/m^2) \text{Int}[(f*x)^m*(d + e*x \\
 & ^2)^q*(a + b*\text{ArcCot}[c*x])^{(p - 2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, \\
 & m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[q, -1] \&\& \text{GtQ}[p, \\
 & 1]
 \end{aligned}$$
5477. $\text{Int}[(a + \text{ArcTan}[(c*x)]*(b))^p*((f*x)^m*(d + e*x^2)^{(q + 1)}*((e*x^2)^q), x_Symbol] \rightarrow \text{Simp}[(f*x)^m*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcTan}[c*x])^{(p + 1)}/(b*c*d*(p + 1))), x] - \text{Simp}[f*(m/(b*c*(p + 1))) \text{Int}[(f*x)^{(m - 1)}*(d + e*x^2)^q*(a + b*\text{ArcTan}[c*x])^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[p, -1]$
5478. $\text{Int}[(a + \text{ArcCot}[(c*x)]*(b))^p*((f*x)^m*(d + e*x^2)^{(q + 1)}*((e*x^2)^q), x_Symbol] \rightarrow \text{Simp}[(-f*x)^m*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcCot}[c*x])^{(p + 1)}/(b*c*d*(p + 1))), x] + \text{Simp}[f*(m/(b*c*(p + 1))) \text{Int}[(f*x)^{(m - 1)}*(d + e*x^2)^q*(a + b*\text{ArcCot}[c*x])^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[p, -1]$
5479. $\text{Int}[(a + \text{ArcTan}[(c*x)]*(b))^p*((f*x)^m*(d + e*x^2)^{(q + 1)}*((e*x^2)^q), x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m + 1)}*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcTan}[c*x])^p/(d*f*(m + 1))), x] - \text{Simp}[b*c*(p/(f*(m + 1))) \text{Int}[(f*x)^{(m + 1)}*(d + e*x^2)^q*(a + b*\text{ArcTan}[c*x])^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[m + 2*q + 3, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[m, -1]$
5480. $\text{Int}[(a + \text{ArcCot}[(c*x)]*(b))^p*((f*x)^m*(d + e*x^2)^{(q + 1)}*((e*x^2)^q), x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m + 1)}*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcCot}[c*x])^p/(d*f*(m + 1))), x] + \text{Simp}[b*c*(p/(f*(m + 1))) \text{Int}[(f*x)^{(m + 1)}*(d + e*x^2)^q*(a + b*\text{ArcCot}[c*x])^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[m + 2*q + 3, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[m, -1]$
5481. $\text{Int}[(a + \text{ArcTan}[(c*x)]*(b))*((f*x)^m*\text{Sqrt}[d + e*x^2]), x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m + 1)}*\text{Sqrt}[d + e*x^2]*((a + b*$

- $$\text{ArcTan}[c*x]/(f*(m+2)), x] + (\text{Simp}[d/(m+2) \text{ Int}[(f*x)^m*((a+b*\text{ArcTan}[c*x])/ \text{Sqrt}[d+e*x^2]), x], x] - \text{Simp}[b*c*(d/(f*(m+2))) \text{ Int}[(f*x)^{(m+1)}/ \text{Sqrt}[d+e*x^2], x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{NeQ}[m, -2]$$
5482.
$$\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.))*((f_.)*(x_.))^{(m_.)}*\text{Sqrt}[(d_.) + (e_.)*(x_.)^2], x_Symbol] := \text{Simp}[(f*x)^{(m+1)}*\text{Sqrt}[d+e*x^2]*((a+b*\text{ArcCot}[c*x])/ (f*(m+2))), x] + (\text{Simp}[d/(m+2) \text{ Int}[(f*x)^m*((a+b*\text{ArcCot}[c*x])/ \text{Sqrt}[d+e*x^2]), x], x] + \text{Simp}[b*c*(d/(f*(m+2))) \text{ Int}[(f*x)^{(m+1)}/ \text{Sqrt}[d+e*x^2], x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{NeQ}[m, -2]$$
5483.
$$\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.))^{(p_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] := \text{Int}[\text{ExpandIntegrand}[(f*x)^m*(d+e*x^2)^q*(a+b*\text{ArcTan}[c*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, 1] \&\& (\text{EqQ}[p, 1] || \text{IntegerQ}[m])$$
5484.
$$\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.))^{(p_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] := \text{Int}[\text{ExpandIntegrand}[(f*x)^m*(d+e*x^2)^q*(a+b*\text{ArcCot}[c*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& \text{IGtQ}[q, 1] \&\& (\text{EqQ}[p, 1] || \text{IntegerQ}[m])$$
5485.
$$\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.))^{(p_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] := \text{Simp}[d \text{ Int}[(f*x)^m*(d+e*x^2)^{(q-1)}*(a+b*\text{ArcTan}[c*x])^p, x], x] + \text{Simp}[c^2*(d/f^2) \text{ Int}[(f*x)^{(m+2)}*(d+e*x^2)^{(q-1)}*(a+b*\text{ArcTan}[c*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[q, 0] \&\& \text{IGtQ}[p, 0] \&\& (\text{RationalQ}[m] || (\text{EqQ}[p, 1] \&\& \text{IntegerQ}[q]))$$
5486.
$$\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.))^{(p_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] := \text{Simp}[d \text{ Int}[(f*x)^m*(d+e*x^2)^{(q-1)}*(a+b*\text{ArcCot}[c*x])^p, x], x] + \text{Simp}[c^2*(d/f^2) \text{ Int}[(f*x)^{(m+2)}*(d+e*x^2)^{(q-1)}*(a+b*\text{ArcCot}[c*x])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[q, 0] \&\& \text{IGtQ}[p, 0] \&\& (\text{RationalQ}[m] || (\text{EqQ}[p, 1] \&\& \text{IntegerQ}[q]))$$

5487. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})])(b_{\cdot})^{(p_{\cdot})}((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})})}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[f*(f*x)^{(m-1)}*\sqrt{d+e*x^2}*((a+b*\text{ArcTan}[c*x])^p/(c^2*d*m)), x] + (-\text{Simp}[b*f*(p/(c*m)) \text{Int}[(f*x)^{(m-1)}*((a+b*\text{ArcTan}[c*x])^{(p-1)})/\sqrt{d+e*x^2}], x], x) - \text{Simp}[f^2*((m-1)/(c^2*m)) \text{Int}[(f*x)^{(m-2)}*((a+b*\text{ArcTan}[c*x])^p/\sqrt{d+e*x^2}), x], x) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[p, 0] \&\& \text{GtQ}[m, 1]$
5488. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})])(b_{\cdot})^{(p_{\cdot})}((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})})}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[f*(f*x)^{(m-1)}*\sqrt{d+e*x^2}*((a+b*\text{ArcCot}[c*x])^p/(c^2*d*m)), x] + (\text{Simp}[b*f*(p/(c*m)) \text{Int}[(f*x)^{(m-1)}*((a+b*\text{ArcCot}[c*x])^{(p-1)})/\sqrt{d+e*x^2}], x], x) - \text{Simp}[f^2*((m-1)/(c^2*m)) \text{Int}[(f*x)^{(m-2)}*((a+b*\text{ArcCot}[c*x])^p/\sqrt{d+e*x^2}), x], x) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[p, 0] \&\& \text{GtQ}[m, 1]$
5489. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})])(b_{\cdot})}{(x_{\cdot})*\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-2/\sqrt{d})*(a+b*\text{ArcTan}[c*x])*\text{ArcTanh}[\sqrt{1+I*c*x}/\sqrt{1-I*c*x}], x] + (\text{Simp}[I*(b/\sqrt{d})*\text{PolyLog}[2, -\sqrt{1+I*c*x}/\sqrt{1-I*c*x}], x] - \text{Simp}[I*(b/\sqrt{d})*\text{PolyLog}[2, \sqrt{1+I*c*x}/\sqrt{1-I*c*x}], x)) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[d, 0]$
5490. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})])(b_{\cdot})}{(x_{\cdot})*\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-2/\sqrt{d})*(a+b*\text{ArcCot}[c*x])*\text{ArcTanh}[\sqrt{1+I*c*x}/\sqrt{1-I*c*x}], x] + (-\text{Simp}[I*(b/\sqrt{d})*\text{PolyLog}[2, -\sqrt{1+I*c*x}/\sqrt{1-I*c*x}], x] + \text{Simp}[I*(b/\sqrt{d})*\text{PolyLog}[2, \sqrt{1+I*c*x}/\sqrt{1-I*c*x}], x)) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[d, 0]$
5491. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})])(b_{\cdot})^{(p_{\cdot})}}{(x_{\cdot})*\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/\sqrt{d} \text{Subst}[\text{Int}[(a+b*x)^p*\text{Csc}[x], x], x, \text{ArcTan}[c*x]], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& \text{GtQ}[d, 0]$

5492. $\text{Int}[\left((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}/\left((x_{\cdot})\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c) * x * (\sqrt{1 + 1/(c^2 * x^2)}) / \sqrt{d + e * x^2}] \text{ Subst}[\text{Int}[(a + b * x)^p * \text{Sec}[x], x], x, \text{ArcCot}[c * x], x] /;$ $\text{FreeQ}\{a, b, c, d, e\}, x\} \ \&\& \ \text{EqQ}[e, c^2 * d] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{GtQ}[d, 0]$
5493. $\text{Int}[\left((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}/\left((x_{\cdot})\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[\sqrt{1 + c^2 * x^2} / \sqrt{d + e * x^2} \text{ Int}[(a + b * \text{ArcTan}[c * x])^p / (x * \sqrt{1 + c^2 * x^2})], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e\}, x\} \ \&\& \ \text{EqQ}[e, c^2 * d] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{!GtQ}[d, 0]$
5494. $\text{Int}[\left((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}/\left((x_{\cdot})\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[\sqrt{1 + c^2 * x^2} / \sqrt{d + e * x^2} \text{ Int}[(a + b * \text{ArcCot}[c * x])^p / (x * \sqrt{1 + c^2 * x^2})], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e\}, x\} \ \&\& \ \text{EqQ}[e, c^2 * d] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{!GtQ}[d, 0]$
5495. $\text{Int}[\left((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}/\left((x_{\cdot})^2 \sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-\sqrt{d + e * x^2}) * ((a + b * \text{ArcTan}[c * x])^p / (d * x)), x] + \text{Simp}[b * c * p \text{ Int}[(a + b * \text{ArcTan}[c * x])^{(p - 1)} / (x * \sqrt{d + e * x^2})], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e\}, x\} \ \&\& \ \text{EqQ}[e, c^2 * d] \ \&\& \ \text{GtQ}[p, 0]$
5496. $\text{Int}[\left((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}/\left((x_{\cdot})^2 \sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-\sqrt{d + e * x^2}) * ((a + b * \text{ArcCot}[c * x])^p / (d * x)), x] - \text{Simp}[b * c * p \text{ Int}[(a + b * \text{ArcCot}[c * x])^{(p - 1)} / (x * \sqrt{d + e * x^2})], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e\}, x\} \ \&\& \ \text{EqQ}[e, c^2 * d] \ \&\& \ \text{GtQ}[p, 0]$
5497. $\text{Int}[\left(\left((a_{\cdot}) + \text{ArcTan}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} * ((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}\right) / \sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(f * x)^{(m + 1)} * \sqrt{d + e * x^2} * ((a + b * \text{ArcTan}[c * x])^p / (d * f * (m + 1))), x] + (-\text{Simp}[b * c * (p / (f * (m + 1))) \text{ Int}[(f * x)^{(m + 1)} * ((a + b * \text{ArcTan}[c * x])^{(p - 1)}) / \sqrt{d + e * x^2}], x], x] - \text{Simp}[c^2 * ((m + 2) / (f^2 * (m + 1))) \text{ Int}[(f * x)^{(m + 2)} * ((a + b * \text{ArcTan}[c * x])^p / \sqrt{d + e * x^2})], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x\} \ \&\& \ \text{EqQ}[e, c^2 * d] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{LtQ}[m, -1] \ \&\& \ \text{NeQ}[m, -2]$
5498. $\text{Int}[\left(\left((a_{\cdot}) + \text{ArcCot}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} * ((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}\right) / \sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(f * x)^{(m + 1)} * \sqrt{d + e * x^2} *$

- $$\left((a + b \operatorname{ArcCot}[c x])^p / (d f (m + 1)) \right), x] + \left(\operatorname{Simp}[b c (p / (f (m + 1))) \right. \\
\left. \operatorname{Int}[(f x)^{(m + 1)} * ((a + b \operatorname{ArcCot}[c x])^{(p - 1)} / \sqrt{d + e x^2})], x], \right. \\
\left. x] - \operatorname{Simp}[c^2 * ((m + 2) / (f^2 * (m + 1))) \operatorname{Int}[(f x)^{(m + 2)} * ((a + b \operatorname{ArcCot}[c x])^p / \sqrt{d + e x^2})], x], x] \right) /; \operatorname{FreeQ}[\{a, b, c, d, e, f\}, x] \\
\&\& \operatorname{EqQ}[e, c^2 * d] \&\& \operatorname{GtQ}[p, 0] \&\& \operatorname{LtQ}[m, -1] \&\& \operatorname{NeQ}[m, -2]$$
5499. $\operatorname{Int}[\left((a_{\cdot}) + \operatorname{ArcTan}[(c_{\cdot})(x_{\cdot})] * (b_{\cdot}) \right)^{(p_{\cdot})} * (x_{\cdot})^{(m_{\cdot})} * \left((d_{\cdot}) + (e_{\cdot}) * (x_{\cdot})^2 \right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[1/e \operatorname{Int}[x^{(m - 2)} * (d + e x^2)^{(q + 1)} * (a + b \operatorname{ArcTan}[c x])^p, x], x] - \operatorname{Simp}[d/e \operatorname{Int}[x^{(m - 2)} * (d + e x^2)^q * (a + b \operatorname{ArcTan}[c x])^p, x], x] /; \operatorname{FreeQ}[\{a, b, c, d, e\}, x] \&\& \operatorname{EqQ}[e, c^2 * d] \&\& \operatorname{IntegersQ}[p, 2 * q] \&\& \operatorname{LtQ}[q, -1] \&\& \operatorname{IGtQ}[m, 1] \&\& \operatorname{NeQ}[p, -1]$
5500. $\operatorname{Int}[\left((a_{\cdot}) + \operatorname{ArcCot}[(c_{\cdot})(x_{\cdot})] * (b_{\cdot}) \right)^{(p_{\cdot})} * (x_{\cdot})^{(m_{\cdot})} * \left((d_{\cdot}) + (e_{\cdot}) * (x_{\cdot})^2 \right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[1/e \operatorname{Int}[x^{(m - 2)} * (d + e x^2)^{(q + 1)} * (a + b \operatorname{ArcCot}[c x])^p, x], x] - \operatorname{Simp}[d/e \operatorname{Int}[x^{(m - 2)} * (d + e x^2)^q * (a + b \operatorname{ArcCot}[c x])^p, x], x] /; \operatorname{FreeQ}[\{a, b, c, d, e\}, x] \&\& \operatorname{EqQ}[e, c^2 * d] \&\& \operatorname{IntegersQ}[p, 2 * q] \&\& \operatorname{LtQ}[q, -1] \&\& \operatorname{IGtQ}[m, 1] \&\& \operatorname{NeQ}[p, -1]$
5501. $\operatorname{Int}[\left((a_{\cdot}) + \operatorname{ArcTan}[(c_{\cdot})(x_{\cdot})] * (b_{\cdot}) \right)^{(p_{\cdot})} * (x_{\cdot})^{(m_{\cdot})} * \left((d_{\cdot}) + (e_{\cdot}) * (x_{\cdot})^2 \right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[1/d \operatorname{Int}[x^m * (d + e x^2)^{(q + 1)} * (a + b \operatorname{ArcTan}[c x])^p, x], x] - \operatorname{Simp}[e/d \operatorname{Int}[x^{(m + 2)} * (d + e x^2)^q * (a + b \operatorname{ArcTan}[c x])^p, x], x] /; \operatorname{FreeQ}[\{a, b, c, d, e\}, x] \&\& \operatorname{EqQ}[e, c^2 * d] \&\& \operatorname{IntegersQ}[p, 2 * q] \&\& \operatorname{LtQ}[q, -1] \&\& \operatorname{ILtQ}[m, 0] \&\& \operatorname{NeQ}[p, -1]$
5502. $\operatorname{Int}[\left((a_{\cdot}) + \operatorname{ArcCot}[(c_{\cdot})(x_{\cdot})] * (b_{\cdot}) \right)^{(p_{\cdot})} * (x_{\cdot})^{(m_{\cdot})} * \left((d_{\cdot}) + (e_{\cdot}) * (x_{\cdot})^2 \right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[1/d \operatorname{Int}[x^m * (d + e x^2)^{(q + 1)} * (a + b \operatorname{ArcCot}[c x])^p, x], x] - \operatorname{Simp}[e/d \operatorname{Int}[x^{(m + 2)} * (d + e x^2)^q * (a + b \operatorname{ArcCot}[c x])^p, x], x] /; \operatorname{FreeQ}[\{a, b, c, d, e\}, x] \&\& \operatorname{EqQ}[e, c^2 * d] \&\& \operatorname{IntegersQ}[p, 2 * q] \&\& \operatorname{LtQ}[q, -1] \&\& \operatorname{ILtQ}[m, 0] \&\& \operatorname{NeQ}[p, -1]$
5503. $\operatorname{Int}[\left((a_{\cdot}) + \operatorname{ArcTan}[(c_{\cdot})(x_{\cdot})] * (b_{\cdot}) \right)^{(p_{\cdot})} * (x_{\cdot})^{(m_{\cdot})} * \left((d_{\cdot}) + (e_{\cdot}) * (x_{\cdot})^2 \right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \operatorname{Simp}[x^m * (d + e x^2)^{(q + 1)} * ((a + b \operatorname{ArcTan}[c x])^{(p + 1)} / (b * c * d * (p + 1))), x] + (-\operatorname{Simp}[c * ((m + 2 * q + 2) / (b * (p + 1))) \operatorname{Int}[x^{(m + 1)} * (d + e x^2)^q * (a + b \operatorname{ArcTan}[c x])^{(p + 1)}, x], x] - \operatorname{Simp}[m / (b * c * (p + 1)) \operatorname{Int}[x^{(m - 1)} * (d + e x^2)^q * (a + b \operatorname{ArcTan}[c x])^{(p + 1)}, x], x]) /; \operatorname{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \operatorname{EqQ}[e, c^2 * d] \&\& \operatorname{IntegerQ}[m] \&\& \operatorname{LtQ}[q, -1] \&\& \operatorname{LtQ}[p, -1] \&\& \operatorname{NeQ}[m + 2 * q + 2, 0]$

5504. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.)]^{(p_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(q_.)}$, x_Symbol] $\rightarrow \text{Simp}[(-x^m)*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcCot}[c*x])^{(p + 1)})/(b*c*d*(p + 1))$, x] + (Simp[c*(m + 2*q + 2)/(b*(p + 1)) Int[x^(m + 1)*(d + e*x^2)^q*(a + b*ArcCot[c*x])^(p + 1), x], x] + Simp[m/(b*c*(p + 1)) Int[x^(m - 1)*(d + e*x^2)^q*(a + b*ArcCot[c*x])^(p + 1), x], x]) /; FreeQ[{a, b, c, d, e, m}, x] && EqQ[e, c^2*d] && IntegerQ[m] && LtQ[q, -1] && LtQ[p, -1] && NeQ[m + 2*q + 2, 0]
5505. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.)]^{(p_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(q_.)}$, x_Symbol] $\rightarrow \text{Simp}[d^q/c^{(m + 1)} \text{Subst}[\text{Int}[(a + b*x)^p*(\text{Sin}[x]^m/\text{Cos}[x]^{(m + 2*(q + 1))})$, x], x, ArcTan[c*x]], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[e, c^2*d] && IGtQ[m, 0] && ILtQ[m + 2*q + 1, 0] && (IntegerQ[q] || GtQ[d, 0])
5506. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.)]^{(p_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(q_.)}$, x_Symbol] $\rightarrow \text{Simp}[d^{(q + 1/2)}*(\text{Sqrt}[1 + c^2*x^2]/\text{Sqrt}[d + e*x^2]) \text{Int}[x^m*(1 + c^2*x^2)^q*(a + b*\text{ArcTan}[c*x])^p$, x], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[e, c^2*d] && IGtQ[m, 0] && ILtQ[m + 2*q + 1, 0] && !(IntegerQ[q] || GtQ[d, 0])
5507. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.)]^{(p_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(q_.)}$, x_Symbol] $\rightarrow \text{Simp}[-d^q/c^{(m + 1)} \text{Subst}[\text{Int}[(a + b*x)^p*(\text{Cos}[x]^m/\text{Sin}[x]^{(m + 2*(q + 1))})$, x], x, ArcCot[c*x]], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[e, c^2*d] && IGtQ[m, 0] && ILtQ[m + 2*q + 1, 0] && IntegerQ[q]
5508. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.)]^{(p_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(q_.)}$, x_Symbol] $\rightarrow \text{Simp}[(-d^{(q + 1/2)})*x*(\text{Sqrt}[(1 + c^2*x^2)/(c^2*x^2)]/(c^m*\text{Sqrt}[d + e*x^2])) \text{Subst}[\text{Int}[(a + b*x)^p*(\text{Cos}[x]^m/\text{Sin}[x]^{(m + 2*(q + 1))})$, x], x, ArcCot[c*x]], x] /; FreeQ[{a, b, c, d, e, p}, x] && EqQ[e, c^2*d] && IGtQ[m, 0] && ILtQ[m + 2*q + 1, 0] && !IntegerQ[q]
5509. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.)]^{(p_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(q_.)}$, x_Symbol] $\rightarrow \text{Simp}[(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcTan}[c*x])/(2*e*(q + 1)))$, x] - Simp[b*(c/(2*e*(q + 1))) Int[(d + e*x^2)^{(q + 1)}/(1 +

- $c^2x^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e, q\}, x] \ \&\& \ \text{NeQ}[q, -1]$
5510. $\text{Int}[\left((a_{.}) + \text{ArcCot}[(c_{.})*(x_{.})]*(b_{.})\right)*(x_{.})*\left((d_{.}) + (e_{.})*(x_{.})^2\right)^{(q_{.})}, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(q + 1)}*(a + b*\text{ArcCot}[c*x])/(2*e*(q + 1)), x] + \text{Simp}[b*(c/(2*e*(q + 1))) \ \text{Int}[(d + e*x^2)^{(q + 1)}/(1 + c^2*x^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e, q\}, x] \ \&\& \ \text{NeQ}[q, -1]$
5511. $\text{Int}[\left((a_{.}) + \text{ArcTan}[(c_{.})*(x_{.})]*(b_{.})\right)*\left((f_{.})*(x_{.})\right)^{(m_{.})}\left((d_{.}) + (e_{.})*(x_{.})^2\right)^{(q_{.})}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(f*x)^m*(d + e*x^2)^q, x]\}, \text{Simp}[(a + b*\text{ArcTan}[c*x]) \ u, x] - \text{Simp}[b*c \ \text{Int}[\text{SimplifyIntegrand}[u/(1 + c^2*x^2), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, m, q\}, x] \ \&\& \ ((\text{IGtQ}[q, 0] \ \&\& \ !(\text{ILtQ}[(m - 1)/2, 0] \ \&\& \ \text{GtQ}[m + 2*q + 3, 0])) \ || \ (\text{IGtQ}[(m + 1)/2, 0] \ \&\& \ !(\text{ILtQ}[q, 0] \ \&\& \ \text{GtQ}[m + 2*q + 3, 0])) \ || \ (\text{ILtQ}[(m + 2*q + 1)/2, 0] \ \&\& \ !\text{ILtQ}[(m - 1)/2, 0]))$
5512. $\text{Int}[\left((a_{.}) + \text{ArcCot}[(c_{.})*(x_{.})]*(b_{.})\right)*\left((f_{.})*(x_{.})\right)^{(m_{.})}\left((d_{.}) + (e_{.})*(x_{.})^2\right)^{(q_{.})}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(f*x)^m*(d + e*x^2)^q, x]\}, \text{Simp}[(a + b*\text{ArcCot}[c*x]) \ u, x] + \text{Simp}[b*c \ \text{Int}[\text{SimplifyIntegrand}[u/(1 + c^2*x^2), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, m, q\}, x] \ \&\& \ ((\text{IGtQ}[q, 0] \ \&\& \ !(\text{ILtQ}[(m - 1)/2, 0] \ \&\& \ \text{GtQ}[m + 2*q + 3, 0])) \ || \ (\text{IGtQ}[(m + 1)/2, 0] \ \&\& \ !(\text{ILtQ}[q, 0] \ \&\& \ \text{GtQ}[m + 2*q + 3, 0])) \ || \ (\text{ILtQ}[(m + 2*q + 1)/2, 0] \ \&\& \ !\text{ILtQ}[(m - 1)/2, 0]))$
5513. $\text{Int}[\left(\left((a_{.}) + \text{ArcTan}[(c_{.})*(x_{.})]*(b_{.})\right)^{(p_{.})}\right)*(x_{.})/\left((d_{.}) + (e_{.})*(x_{.})^2\right)^2, x_Symbol] \rightarrow \text{Simp}[1/(4*d^2*\text{Rt}[-e/d, 2]) \ \text{Int}[(a + b*\text{ArcTan}[c*x])^p/(1 - \text{Rt}[-e/d, 2]*x)^2, x], x] - \text{Simp}[1/(4*d^2*\text{Rt}[-e/d, 2]) \ \text{Int}[(a + b*\text{ArcTan}[c*x])^p/(1 + \text{Rt}[-e/d, 2]*x)^2, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
5514. $\text{Int}[\left(\left((a_{.}) + \text{ArcCot}[(c_{.})*(x_{.})]*(b_{.})\right)^{(p_{.})}\right)*(x_{.})/\left((d_{.}) + (e_{.})*(x_{.})^2\right)^2, x_Symbol] \rightarrow \text{Simp}[1/(4*d^2*\text{Rt}[-e/d, 2]) \ \text{Int}[(a + b*\text{ArcCot}[c*x])^p/(1 - \text{Rt}[-e/d, 2]*x)^2, x], x] - \text{Simp}[1/(4*d^2*\text{Rt}[-e/d, 2]) \ \text{Int}[(a + b*\text{ArcCot}[c*x])^p/(1 + \text{Rt}[-e/d, 2]*x)^2, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
5515. $\text{Int}[\left((a_{.}) + \text{ArcTan}[(c_{.})*(x_{.})]*(b_{.})\right)^{(p_{.})}\left((f_{.})*(x_{.})\right)^{(m_{.})}\left((d_{.}) + (e_{.})*(x_{.})^2\right)^{(q_{.})}, x_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[(a + b*$

- $\text{rcTan}[c*x]^p, (f*x)^m*(d + e*x^2)^q, x\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IGtQ}[p, 0] \&\& ((\text{EqQ}[p, 1] \&\& \text{GtQ}[q, 0]) \mid \mid \text{IntegerQ}[m])$
5516. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.)]^{(p_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] \text{:>} \text{With}[\{u = \text{ExpandIntegrand}[(a + b*\text{ArcCot}[c*x])^p, (f*x)^m*(d + e*x^2)^q, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IGtQ}[p, 0] \&\& ((\text{EqQ}[p, 1] \&\& \text{GtQ}[q, 0]) \mid \mid \text{IntegerQ}[m])$
5517. $\text{Int}[(\text{ArcTan}[(c_.)*(x_.)]*(b_.) + (a_.))*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] \text{:>} \text{Simp}[a \text{ Int}[(f*x)^m*(d + e*x^2)^q, x], x] + \text{Simp}[b \text{ Int}[(f*x)^m*(d + e*x^2)^q*\text{ArcTan}[c*x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, q\}, x]$
5518. $\text{Int}[(\text{ArcCot}[(c_.)*(x_.)]*(b_.) + (a_.))*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(q_.)}, x_Symbol] \text{:>} \text{Simp}[a \text{ Int}[(f*x)^m*(d + e*x^2)^q, x], x] + \text{Simp}[b \text{ Int}[(f*x)^m*(d + e*x^2)^q*\text{ArcCot}[c*x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, q\}, x]$
5519. $\text{Int}[(((a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.))^{(p_.)}*((f_.) + (g_.)*(x_.))^{(m_.)})/((d_.) + (e_.)*(x_.)^2), x_Symbol] \text{:>} \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTan}[c*x])^p/(d + e*x^2), (f + g*x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[m, 0]$
5520. $\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_.)]*(b_.))^{(p_.)}*((f_.) + (g_.)*(x_.))^{(m_.)})/((d_.) + (e_.)*(x_.)^2), x_Symbol] \text{:>} \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCot}[c*x])^p/(d + e*x^2), (f + g*x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[m, 0]$
5521. $\text{Int}[(\text{ArcTanh}[u_*] * ((a_.) + \text{ArcTan}[(c_.)*(x_.)]*(b_.))^{(p_.)})/((d_.) + (e_.)*(x_.)^2), x_Symbol] \text{:>} \text{Simp}[1/2 \text{ Int}[\text{Log}[1 + u]*((a + b*\text{ArcTan}[c*x])^p/(d + e*x^2)), x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[1 - u]*((a + b*\text{ArcTan}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[u^2 - (1 - 2*(1/(1 + c*x)))^2, 0]$

5522. $\text{Int}[(\text{ArcCoth}[u_]*((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)})/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[\text{SimplifyIntegrand}[1 + 1/u, x]]*(a + b*\text{ArcCot}[c*x])^p/(d + e*x^2)), x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[\text{SimplifyIntegrand}[1 - 1/u, x]]*(a + b*\text{ArcCot}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[u^2 - (1 - 2*(I/(I + c*x)))^2, 0]$
5523. $\text{Int}[(\text{ArcTanh}[u_]*((a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)})/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[1 + u]*(a + b*\text{ArcTan}[c*x])^p/(d + e*x^2)), x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[1 - u]*(a + b*\text{ArcTan}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[u^2 - (1 - 2*(I/(I - c*x)))^2, 0]$
5524. $\text{Int}[(\text{ArcCoth}[u_]*((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)})/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[\text{SimplifyIntegrand}[1 + 1/u, x]]*(a + b*\text{ArcCot}[c*x])^p/(d + e*x^2)), x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[\text{SimplifyIntegrand}[1 - 1/u, x]]*(a + b*\text{ArcCot}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[u^2 - (1 - 2*(I/(I - c*x)))^2, 0]$
5525. $\text{Int}[(\text{Log}[(f_) + (g_.)*(x_)]*(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)})/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(a + b*\text{ArcTan}[c*x])^{(p + 1)}*(\text{Log}[f + g*x]/(b*c*d*(p + 1))), x] - \text{Simp}[g/(b*c*d*(p + 1)) \text{ Int}[(a + b*\text{ArcTan}[c*x])^{(p + 1)}/(f + g*x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[c^2*f^2 + g^2, 0]$
5526. $\text{Int}[(\text{Log}[(f_) + (g_.)*(x_)]*(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)})/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(a + b*\text{ArcCot}[c*x])^{(p + 1)}*(\text{Log}[f + g*x]/(b*c*d*(p + 1))), x] - \text{Simp}[g/(b*c*d*(p + 1)) \text{ Int}[(a + b*\text{ArcCot}[c*x])^{(p + 1)}/(f + g*x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[c^2*f^2 + g^2, 0]$
5527. $\text{Int}[(\text{Log}[u_]*((a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)})/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[I*(a + b*\text{ArcTan}[c*x])^p*(\text{PolyLog}[2, 1 - u]/(2*c*d)), x] - \text{Simp}[b*p*(I/2) \text{ Int}[(a + b*\text{ArcTan}[c*x])^{(p - 1)}*(\text{PolyLog}[2, 1 - u]/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[(1 - u)^2 - (1 - 2*(I/(I + c*x)))^2, 0]$

5528. $\text{Int}[(\text{Log}[u_]*(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)} / ((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[I*(a + b*\text{ArcCot}[c*x])^p*(\text{PolyLog}[2, 1 - u]/(2*c*d)), x] + \text{Simp}[b*p*(I/2) \text{Int}[(a + b*\text{ArcCot}[c*x])^{(p - 1)}*(\text{PolyLog}[2, 1 - u]/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{EqQ}[e, c^2*d] \ \&\& \text{EqQ}[(1 - u)^2 - (1 - 2*(I/(I + c*x)))^2, 0]$
5529. $\text{Int}[(\text{Log}[u_]*(a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)} / ((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(-I)*(a + b*\text{ArcTan}[c*x])^p*(\text{PolyLog}[2, 1 - u]/(2*c*d)), x] + \text{Simp}[b*p*(I/2) \text{Int}[(a + b*\text{ArcTan}[c*x])^{(p - 1)}*(\text{PolyLog}[2, 1 - u]/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{EqQ}[e, c^2*d] \ \&\& \text{EqQ}[(1 - u)^2 - (1 - 2*(I/(I - c*x)))^2, 0]$
5530. $\text{Int}[(\text{Log}[u_]*(a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)} / ((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(-I)*(a + b*\text{ArcCot}[c*x])^p*(\text{PolyLog}[2, 1 - u]/(2*c*d)), x] - \text{Simp}[b*p*(I/2) \text{Int}[(a + b*\text{ArcCot}[c*x])^{(p - 1)}*(\text{PolyLog}[2, 1 - u]/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{EqQ}[e, c^2*d] \ \&\& \text{EqQ}[(1 - u)^2 - (1 - 2*(I/(I - c*x)))^2, 0]$
5531. $\text{Int}[(((a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)} * \text{PolyLog}[k_, u_]) / ((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(-I)*(a + b*\text{ArcTan}[c*x])^p*(\text{PolyLog}[k + 1, u]/(2*c*d)), x] + \text{Simp}[b*p*(I/2) \text{Int}[(a + b*\text{ArcTan}[c*x])^{(p - 1)}*(\text{PolyLog}[k + 1, u]/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, k\}, x \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{EqQ}[e, c^2*d] \ \&\& \text{EqQ}[u^2 - (1 - 2*(I/(I + c*x)))^2, 0]$
5532. $\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)} * \text{PolyLog}[k_, u_]) / ((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(-I)*(a + b*\text{ArcCot}[c*x])^p*(\text{PolyLog}[k + 1, u]/(2*c*d)), x] - \text{Simp}[b*p*(I/2) \text{Int}[(a + b*\text{ArcCot}[c*x])^{(p - 1)}*(\text{PolyLog}[k + 1, u]/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, k\}, x \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{EqQ}[e, c^2*d] \ \&\& \text{EqQ}[u^2 - (1 - 2*(I/(I + c*x)))^2, 0]$
5533. $\text{Int}[(((a_.) + \text{ArcTan}[(c_.)*(x_)]*(b_.))^{(p_.)} * \text{PolyLog}[k_, u_]) / ((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[I*(a + b*\text{ArcTan}[c*x])^p*(\text{PolyLog}[k +$

- $$1, u]/(2*c*d)), x] - \text{Simp}[b*p*(I/2) \text{ Int}[(a + b*\text{ArcTan}[c*x])^{(p-1)} * (\text{PolyLog}[k+1, u]/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, k\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[u^2 - (1 - 2*(I/(I - c*x)))^2, 0]$$
5534.
$$\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)} * \text{PolyLog}[k_, u_])/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[I*(a + b*\text{ArcCot}[c*x])^p * (\text{PolyLog}[k+1, u]/(2*c*d)), x] + \text{Simp}[b*p*(I/2) \text{ Int}[(a + b*\text{ArcCot}[c*x])^{(p-1)} * (\text{PolyLog}[k+1, u]/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, k\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{EqQ}[u^2 - (1 - 2*(I/(I - c*x)))^2, 0]$$
5535.
$$\text{Int}[1/(((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.)) * ((a_.) + \text{ArcTan}[(c_.)*(x_)] * (b_.)) * ((d_) + (e_.)*(x_)^2)), x_Symbol] \rightarrow \text{Simp}[(-\text{Log}[a + b*\text{ArcCot}[c*x]] + \text{Log}[a + b*\text{ArcTan}[c*x]])/(b*c*d*(2*a + b*\text{ArcCot}[c*x] + b*\text{ArcTan}[c*x])), x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d]$$
5536.
$$\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(q_.)} * ((a_.) + \text{ArcTan}[(c_.)*(x_)] * (b_.))^{(p_.)})/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(-(a + b*\text{ArcCot}[c*x])^{(q+1)} * ((a + b*\text{ArcTan}[c*x])^p/(b*c*d*(q+1))), x] + \text{Simp}[p/(q+1) \text{ Int}[(a + b*\text{ArcCot}[c*x])^{(q+1)} * ((a + b*\text{ArcTan}[c*x])^{(p-1)})/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& \text{IGeQ}[q, p]$$
5537.
$$\text{Int}[(((a_.) + \text{ArcCot}[(c_.)*(x_)]*(b_.))^{(p_.)} * ((a_.) + \text{ArcTan}[(c_.)*(x_)] * (b_.))^{(q_.)})/((d_) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(a + b*\text{ArcTan}[c*x])^{(q+1)} * ((a + b*\text{ArcCot}[c*x])^p/(b*c*d*(q+1))), x] + \text{Simp}[p/(q+1) \text{ Int}[(a + b*\text{ArcTan}[c*x])^{(q+1)} * ((a + b*\text{ArcCot}[c*x])^{(p-1)})/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& \text{IGeQ}[q, p]$$
5538.
$$\text{Int}[\text{ArcTan}[(a_.)*(x_)]/((c_) + (d_.)*(x_)^{(n_.)}), x_Symbol] \rightarrow \text{Simp}[I/2 \text{ Int}[\text{Log}[1 - I*a*x]/(c + d*x^n), x], x] - \text{Simp}[I/2 \text{ Int}[\text{Log}[1 + I*a*x]/(c + d*x^n), x], x] /; \text{FreeQ}\{a, c, d\}, x] \&\& \text{IntegerQ}[n] \&\& !(\text{EqQ}[n, 2] \&\& \text{EqQ}[d, a^2*c])$$

5539. $\text{Int}[\text{ArcCot}[(a_)(x_)]/((c_)+(d_)(x_)^{(n_)}), x_Symbol] \rightarrow \text{Simp}[I/2 \text{ Int}[\text{Log}[1 - I/(a*x)]/(c + d*x^n), x], x] - \text{Simp}[I/2 \text{ Int}[\text{Log}[1 + I/(a*x)]/(c + d*x^n), x], x] /; \text{FreeQ}\{a, c, d, x\} \ \&\& \ \text{IntegerQ}[n] \ \&\& \ !(\text{EqQ}[n, 2] \ \&\& \ \text{EqQ}[d, a^2*c])$
5540. $\text{Int}[(\text{ArcTan}[(c_)(x_)^{(n_)}]*\text{Log}[(d_)(x_)^{(m_)}])/(x_), x_Symbol] \rightarrow \text{Simp}[I/2 \text{ Int}[\text{Log}[d*x^m]*(\text{Log}[1 - I*c*x^n]/x), x], x] - \text{Simp}[I/2 \text{ Int}[\text{Log}[d*x^m]*(\text{Log}[1 + I*c*x^n]/x), x], x] /; \text{FreeQ}\{c, d, m, n, x\}$
5541. $\text{Int}[(\text{ArcCot}[(c_)(x_)^{(n_)}]*\text{Log}[(d_)(x_)^{(m_)}])/(x_), x_Symbol] \rightarrow \text{Simp}[I/2 \text{ Int}[\text{Log}[d*x^m]*(\text{Log}[1 - I/(c*x^n)]/x), x], x] - \text{Simp}[I/2 \text{ Int}[\text{Log}[d*x^m]*(\text{Log}[1 + I/(c*x^n)]/x), x], x] /; \text{FreeQ}\{c, d, m, n, x\}$
5542. $\text{Int}[(\text{Log}[(d_)(x_)^{(m_)}]*(\text{ArcTan}[(c_)(x_)^{(n_)}]*(b_)+(a_)))/(x_), x_Symbol] \rightarrow \text{Simp}[a \text{ Int}[\text{Log}[d*x^m]/x, x], x] + \text{Simp}[b \text{ Int}[(\text{Log}[d*x^m]*\text{ArcTan}[c*x^n])/x, x], x] /; \text{FreeQ}\{a, b, c, d, m, n, x\}$
5543. $\text{Int}[(\text{Log}[(d_)(x_)^{(m_)}]*(\text{ArcCot}[(c_)(x_)^{(n_)}]*(b_)+(a_)))/(x_), x_Symbol] \rightarrow \text{Simp}[a \text{ Int}[\text{Log}[d*x^m]/x, x], x] + \text{Simp}[b \text{ Int}[(\text{Log}[d*x^m]*\text{ArcCot}[c*x^n])/x, x], x] /; \text{FreeQ}\{a, b, c, d, m, n, x\}$
5544. $\text{Int}[(a_)+\text{ArcTan}[(c_)(x_)]*(b_)]*((d_)+\text{Log}[(f_)+(g_)(x_)^2]*(e_)), x_Symbol] \rightarrow \text{Simp}[x*(d + e*\text{Log}[f + g*x^2])*(a + b*\text{ArcTan}[c*x]), x] + (-\text{Simp}[b*c \text{ Int}[x*((d + e*\text{Log}[f + g*x^2])/(1 + c^2*x^2)), x], x] - \text{Simp}[2*e*g \text{ Int}[x^2*((a + b*\text{ArcTan}[c*x])/(f + g*x^2)), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, x\}$
5545. $\text{Int}[(a_)+\text{ArcCot}[(c_)(x_)]*(b_)]*((d_)+\text{Log}[(f_)+(g_)(x_)^2]*(e_)), x_Symbol] \rightarrow \text{Simp}[x*(d + e*\text{Log}[f + g*x^2])*(a + b*\text{ArcCot}[c*x]), x] + (\text{Simp}[b*c \text{ Int}[x*((d + e*\text{Log}[f + g*x^2])/(1 + c^2*x^2)), x], x] - \text{Simp}[2*e*g \text{ Int}[x^2*((a + b*\text{ArcCot}[c*x])/(f + g*x^2)), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, x\}$
5546. $\text{Int}[(\text{ArcTan}[(c_)(x_)]*\text{Log}[(f_)+(g_)(x_)^2])/(x_), x_Symbol] \rightarrow \text{Simp}[(\text{Log}[f + g*x^2] - \text{Log}[1 - I*c*x] - \text{Log}[1 + I*c*x]) \text{ Int}[\text{ArcTan}[c$

- $$\frac{*x}{x}, x], x] + (\text{Simp}[I/2 \int \text{Log}[1 - I*c*x]^2/x, x], x] - \text{Simp}[I/2 \int \text{Log}[1 + I*c*x]^2/x, x], x]) /; \text{FreeQ}\{c, f, g\}, x \ \&\& \ \text{EqQ}[g, c^2 * f]$$
5547. $\text{Int}[(\text{ArcCot}[(c_)*(x_)]*\text{Log}[(f_)] + (g_)*(x_)^2)]/(x_), x_Symbol] \rightarrow \text{Simp}[(\text{Log}[f + g*x^2] - \text{Log}[c^2*x^2] - \text{Log}[1 - I/(c*x)] - \text{Log}[1 + I/(c*x)]) \int \text{ArcCot}[c*x]/x, x], x] + (\int \text{Log}[c^2*x^2]*(\text{ArcCot}[c*x]/x), x] - \text{Simp}[I/2 \int \text{Log}[1 + I/(c*x)]^2/x, x], x] + \text{Simp}[I/2 \int \text{Log}[1 - I/(c*x)]^2/x, x], x]) /; \text{FreeQ}\{c, f, g\}, x \ \&\& \ \text{EqQ}[g, c^2*f]$
5548. $\text{Int}[(\text{Log}[(f_)] + (g_)*(x_)^2)*(\text{ArcTan}[(c_)*(x_)]*(b_)] + (a_)]/(x_), x_Symbol] \rightarrow \text{Simp}[a \int \text{Log}[f + g*x^2]/x, x], x] + \text{Simp}[b \int \text{Log}[f + g*x^2]*(\text{ArcTan}[c*x]/x), x], x] /; \text{FreeQ}\{a, b, c, f, g\}, x]$
5549. $\text{Int}[(\text{Log}[(f_)] + (g_)*(x_)^2)*(\text{ArcCot}[(c_)*(x_)]*(b_)] + (a_)]/(x_), x_Symbol] \rightarrow \text{Simp}[a \int \text{Log}[f + g*x^2]/x, x], x] + \text{Simp}[b \int \text{Log}[f + g*x^2]*(\text{ArcCot}[c*x]/x), x], x] /; \text{FreeQ}\{a, b, c, f, g\}, x]$
5550. $\text{Int}[(((a_)] + \text{ArcTan}[(c_)*(x_)]*(b_)]*(\text{Log}[(f_)] + (g_)*(x_)^2)*(e_)] + (d_)]/(x_), x_Symbol] \rightarrow \text{Simp}[d \int [(a + b*\text{ArcTan}[c*x])/x, x], x] + \text{Simp}[e \int \text{Log}[f + g*x^2]*((a + b*\text{ArcTan}[c*x])/x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x]$
5551. $\text{Int}[(((a_)] + \text{ArcCot}[(c_)*(x_)]*(b_)]*(\text{Log}[(f_)] + (g_)*(x_)^2)*(e_)] + (d_)]/(x_), x_Symbol] \rightarrow \text{Simp}[d \int [(a + b*\text{ArcCot}[c*x])/x, x], x] + \text{Simp}[e \int \text{Log}[f + g*x^2]*((a + b*\text{ArcCot}[c*x])/x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x]$
5552. $\text{Int}[(((a_)] + \text{ArcTan}[(c_)*(x_)]*(b_)]*((d_)] + \text{Log}[(f_)] + (g_)*(x_)^2)*(e_)]*(x_)^{(m_)], x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*(d + e*\text{Log}[f + g*x^2])*((a + b*\text{ArcTan}[c*x])/(m+1)), x] + (-\text{Simp}[b*(c/(m+1)) \int x^{(m+1)}*((d + e*\text{Log}[f + g*x^2])/(1 + c^2*x^2)), x], x] - \text{Simp}[2*e*(g/(m+1)) \int x^{(m+2)}*((a + b*\text{ArcTan}[c*x])/(f + g*x^2)), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x \ \&\& \ \text{ILtQ}[m/2, 0]$

5553. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)(x_.)]*(b_.)]*((d_.) + \text{Log}[(f_.) + (g_.)(x_.)^2]*(e_.))(x_.)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*(d + e*\text{Log}[f + g*x^2])*((a + b*\text{ArcCot}[c*x])/(m+1)), x] + (\text{Simp}[b*(c/(m+1)) \text{Int}[x^{(m+1)}*((d + e*\text{Log}[f + g*x^2])/(1 + c^2*x^2)), x], x] - \text{Simp}[2*e*(g/(m+1)) \text{Int}[x^{(m+2)}*((a + b*\text{ArcCot}[c*x])/(f + g*x^2)), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{ILtQ}[m/2, 0]$
5554. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)(x_.)]*(b_.)]*((d_.) + \text{Log}[(f_.) + (g_.)(x_.)^2]*(e_.))(x_.)^{(m_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[x^m*(d + e*\text{Log}[f + g*x^2]), x]\}, \text{Simp}[(a + b*\text{ArcTan}[c*x]) u, x] - \text{Simp}[b*c \text{Int}[\text{ExpandIntegrand}[u/(1 + c^2*x^2), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[(m+1)/2, 0]$
5555. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)(x_.)]*(b_.)]*((d_.) + \text{Log}[(f_.) + (g_.)(x_.)^2]*(e_.))(x_.)^{(m_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[x^m*(d + e*\text{Log}[f + g*x^2]), x]\}, \text{Simp}[(a + b*\text{ArcCot}[c*x]) u, x] + \text{Simp}[b*c \text{Int}[\text{ExpandIntegrand}[u/(1 + c^2*x^2), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[(m+1)/2, 0]$
5556. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)(x_.)]*(b_.)]*((d_.) + \text{Log}[(f_.) + (g_.)(x_.)^2]*(e_.))(x_.)^{(m_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[x^m*(a + b*\text{ArcTan}[c*x]), x]\}, \text{Simp}[(d + e*\text{Log}[f + g*x^2]) u, x] - \text{Simp}[2*e*g \text{Int}[\text{ExpandIntegrand}[x*(u/(f + g*x^2)), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[m] \&\& \text{NeQ}[m, -1]$
5557. $\text{Int}[(a_.) + \text{ArcCot}[(c_.)(x_.)]*(b_.)]*((d_.) + \text{Log}[(f_.) + (g_.)(x_.)^2]*(e_.))(x_.)^{(m_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[x^m*(a + b*\text{ArcCot}[c*x]), x]\}, \text{Simp}[(d + e*\text{Log}[f + g*x^2]) u, x] - \text{Simp}[2*e*g \text{Int}[\text{ExpandIntegrand}[x*(u/(f + g*x^2)), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[m] \&\& \text{NeQ}[m, -1]$
5558. $\text{Int}[(a_.) + \text{ArcTan}[(c_.)(x_.)]*(b_.)]^2*((d_.) + \text{Log}[(f_.) + (g_.)(x_.)^2]*(e_.))(x_.), x_Symbol] \rightarrow \text{Simp}[(f + g*x^2)*(d + e*\text{Log}[f + g*x^2])*((a + b*\text{ArcTan}[c*x])^2/(2*g)), x] + (-\text{Simp}[e*x^2*((a + b*\text{ArcTan}[c*x])^2/2), x] - \text{Simp}[b/c \text{Int}[(d + e*\text{Log}[f + g*x^2])*(a + b*\text{ArcTan}[c*x]), x], x] + \text{Simp}[b*c*e \text{Int}[x^2*((a + b*\text{ArcTan}[c*x])/(1 + c^2*x^2)), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[g, c^2*f]$

5559. $\text{Int}[(a + \text{ArcCot}[c \cdot x]) \cdot (b \cdot x)^2 \cdot (d + \text{Log}[f + (g \cdot x)^2]) \cdot (e \cdot x), x_{\text{Symbol}}] \rightarrow \text{Simp}[(f + g \cdot x^2) \cdot (d + e \cdot \text{Log}[f + g \cdot x^2]) \cdot ((a + b \cdot \text{ArcCot}[c \cdot x])^2 / (2 \cdot g)), x] + (-\text{Simp}[e \cdot x^2 \cdot ((a + b \cdot \text{ArcCot}[c \cdot x])^2 / 2), x] + \text{Simp}[b/c \cdot \text{Int}[(d + e \cdot \text{Log}[f + g \cdot x^2]) \cdot (a + b \cdot \text{ArcCot}[c \cdot x]), x], x] - \text{Simp}[b \cdot c \cdot e \cdot \text{Int}[x^2 \cdot ((a + b \cdot \text{ArcCot}[c \cdot x]) / (1 + c^2 \cdot x^2)), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x\} \&\& \text{EqQ}[g, c^2 \cdot f]$
5560. $\text{Int}[(a + \text{ArcTan}[c \cdot x]) \cdot (b \cdot x)^{p \cdot u}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[u \cdot (a + b \cdot \text{ArcTan}[c \cdot x])^p, x] /; \text{FreeQ}\{a, b, c, p\}, x\} \&\& (\text{EqQ}[u, 1] \parallel \text{MatchQ}[u, ((d + (e \cdot x)^q) /; \text{FreeQ}\{d, e, q\}, x)] \parallel \text{MatchQ}[u, ((f \cdot x)^m) \cdot ((d + (e \cdot x)^q) /; \text{FreeQ}\{d, e, f, m, q\}, x)] \parallel \text{MatchQ}[u, ((d + (e \cdot x^2)^q) /; \text{FreeQ}\{d, e, q\}, x)] \parallel \text{MatchQ}[u, ((f \cdot x)^m) \cdot ((d + (e \cdot x^2)^q) /; \text{FreeQ}\{d, e, f, m, q\}, x)])$
5561. $\text{Int}[(a + \text{ArcCot}[c \cdot x]) \cdot (b \cdot x)^{p \cdot u}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[u \cdot (a + b \cdot \text{ArcCot}[c \cdot x])^p, x] /; \text{FreeQ}\{a, b, c, p\}, x\} \&\& (\text{EqQ}[u, 1] \parallel \text{MatchQ}[u, ((d + (e \cdot x)^q) /; \text{FreeQ}\{d, e, q\}, x)] \parallel \text{MatchQ}[u, ((f \cdot x)^m) \cdot ((d + (e \cdot x)^q) /; \text{FreeQ}\{d, e, f, m, q\}, x)] \parallel \text{MatchQ}[u, ((d + (e \cdot x^2)^q) /; \text{FreeQ}\{d, e, q\}, x)] \parallel \text{MatchQ}[u, ((f \cdot x)^m) \cdot ((d + (e \cdot x^2)^q) /; \text{FreeQ}\{d, e, f, m, q\}, x)])$
5562. $\text{Int}[(a + \text{ArcTan}[c + (d \cdot x)]) \cdot (b \cdot x)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/d \cdot \text{Subst}[\text{Int}[(a + b \cdot \text{ArcTan}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IGtQ}[p, 0]$
5563. $\text{Int}[(a + \text{ArcCot}[c + (d \cdot x)]) \cdot (b \cdot x)^p, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/d \cdot \text{Subst}[\text{Int}[(a + b \cdot \text{ArcCot}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IGtQ}[p, 0]$
5564. $\text{Int}[(a + \text{ArcTan}[c + (d \cdot x)]) \cdot (b \cdot x)^p, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcTan}[c + d \cdot x])^p, x] /; \text{FreeQ}\{a, b, c, d, p\}, x\} \&\& !\text{IGtQ}[p, 0]$

5565. $\text{Int}[(a + \text{ArcCot}[c] + d \cdot x) \cdot (b + \text{ArcCot}[c + d \cdot x])^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcCot}[c + d \cdot x])^p, x] /; \text{FreeQ}\{a, b, c, d, p\}, x] \&\& !\text{IGtQ}[p, 0]$
5566. $\text{Int}[(a + \text{ArcTan}[c] + d \cdot x) \cdot (b + \text{ArcTan}[c + d \cdot x])^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(f \cdot x/d)^m \cdot (a + b \cdot \text{ArcTan}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[d \cdot e - c \cdot f, 0] \&\& \text{IGtQ}[p, 0]$
5567. $\text{Int}[(a + \text{ArcCot}[c] + d \cdot x) \cdot (b + \text{ArcCot}[c + d \cdot x])^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(f \cdot x/d)^m \cdot (a + b \cdot \text{ArcCot}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[d \cdot e - c \cdot f, 0] \&\& \text{IGtQ}[p, 0]$
5568. $\text{Int}[(a + \text{ArcTan}[c] + d \cdot x) \cdot (b + \text{ArcTan}[c + d \cdot x])^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[(e + f \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcTan}[c + d \cdot x])^p / (f \cdot (m + 1)), x] - \text{Simp}[b \cdot d \cdot (p / (f \cdot (m + 1))) \text{ Int}[(e + f \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcTan}[c + d \cdot x])^{p-1} / (1 + (c + d \cdot x)^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[m, -1]$
5569. $\text{Int}[(a + \text{ArcCot}[c] + d \cdot x) \cdot (b + \text{ArcCot}[c + d \cdot x])^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[(e + f \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcCot}[c + d \cdot x])^p / (f \cdot (m + 1)), x] + \text{Simp}[b \cdot d \cdot (p / (f \cdot (m + 1))) \text{ Int}[(e + f \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcCot}[c + d \cdot x])^{p-1} / (1 + (c + d \cdot x)^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[m, -1]$
5570. $\text{Int}[(a + \text{ArcTan}[c] + d \cdot x) \cdot (b + \text{ArcTan}[c + d \cdot x])^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d \cdot e - c \cdot f)/d + f \cdot x)^m \cdot (a + b \cdot \text{ArcTan}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x] \&\& \text{IGtQ}[p, 0]$
5571. $\text{Int}[(a + \text{ArcCot}[c] + d \cdot x) \cdot (b + \text{ArcCot}[c + d \cdot x])^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d \cdot e - c \cdot f)/d + f \cdot x)^m \cdot (a + b \cdot \text{ArcCot}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x] \&\& \text{IGtQ}[p, 0]$

5572. $\text{Int}[(a_.) + \text{ArcTan}[(c_.) + (d_.)*(x_)]*(b_.)]^{(p_.)}*((e_.) + (f_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^m*(a + b*\text{ArcTan}[c + d*x])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, p\}, x] \&\& !\text{IGtQ}[p, 0]$
5573. $\text{Int}[(a_.) + \text{ArcCot}[(c_.) + (d_.)*(x_)]*(b_.)]^{(p_.)}*((e_.) + (f_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^m*(a + b*\text{ArcCot}[c + d*x])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, p\}, x] \&\& !\text{IGtQ}[p, 0]$
5574. $\text{Int}[\text{ArcTan}[(a_.) + (b_.)*(x_)]/((c_.) + (d_.)*(x_)^{(n_.)}), x_Symbol] \rightarrow \text{Simp}[I/2 \text{ Int}[\text{Log}[1 - I*a - I*b*x]/(c + d*x^n), x], x] - \text{Simp}[I/2 \text{ Int}[\text{Log}[1 + I*a + I*b*x]/(c + d*x^n), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{RationalQ}[n]$
5575. $\text{Int}[\text{ArcCot}[(a_.) + (b_.)*(x_)]/((c_.) + (d_.)*(x_)^{(n_.)}), x_Symbol] \rightarrow \text{Simp}[I/2 \text{ Int}[\text{Log}[(-I + a + b*x)/(a + b*x)]/(c + d*x^n), x], x] - \text{Simp}[I/2 \text{ Int}[\text{Log}[(I + a + b*x)/(a + b*x)]/(c + d*x^n), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{RationalQ}[n]$
5576. $\text{Int}[\text{ArcTan}[(a_.) + (b_.)*(x_)]/((c_.) + (d_.)*(x_)^{(n_.)}), x_Symbol] \rightarrow \text{Unintegrable}[\text{ArcTan}[a + b*x]/(c + d*x^n), x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& !\text{RationalQ}[n]$
5577. $\text{Int}[\text{ArcCot}[(a_.) + (b_.)*(x_)]/((c_.) + (d_.)*(x_)^{(n_.)}), x_Symbol] \rightarrow \text{Unintegrable}[\text{ArcCot}[a + b*x]/(c + d*x^n), x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& !\text{RationalQ}[n]$
5578. $\text{Int}[(a_.) + \text{ArcTan}[(c_.) + (d_.)*(x_)]*(b_.)]^{(p_.)}*((A_.) + (B_.)*(x_)) + (C_.)*(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(C/d^2 + (C/d^2)*x^2)^q*(a + b*\text{ArcTan}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}[\{a, b, c, d, A, B, C, p, q\}, x] \&\& \text{EqQ}[B*(1 + c^2) - 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$
5579. $\text{Int}[(a_.) + \text{ArcCot}[(c_.) + (d_.)*(x_)]*(b_.)]^{(p_.)}*((A_.) + (B_.)*(x_)) + (C_.)*(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(C/d^2 + (C/d^2)*x^2)^q*(a + b*\text{ArcCot}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}[\{a, b, c, d, A, B, C, p, q\}, x] \&\& \text{EqQ}[B*(1 + c^2) - 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$

- B*d, 0]
5580. $\text{Int}[(a_.) + \text{ArcTan}[(c_.) + (d_.)(x_.)]*(b_.)]^{(p_.)}*((e_.) + (f_.)(x_.))^{(m_.)}*((A_.) + (B_.)(x_.) + (C_.)(x_.)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d*e - c*f)/d + f*(x/d)]^m*(C/d^2 + (C/d^2)*x^2)^q*(a + b*\text{ArcTan}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, p, q\}, x] \&\& \text{EqQ}[B*(1 + c^2) - 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$
5581. $\text{Int}[(a_.) + \text{ArcCot}[(c_.) + (d_.)(x_.)]*(b_.)]^{(p_.)}*((e_.) + (f_.)(x_.))^{(m_.)}*((A_.) + (B_.)(x_.) + (C_.)(x_.)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d*e - c*f)/d + f*(x/d)]^m*(C/d^2 + (C/d^2)*x^2)^q*(a + b*\text{ArcCot}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, p, q\}, x] \&\& \text{EqQ}[B*(1 + c^2) - 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$
5582. $\text{Int}[E^{(\text{ArcTan}[(a_.)(x_.)]*(n_.))}, x_Symbol] \rightarrow \text{Int}[(1 - I*a*x)^{(I*n + 1)/2} / ((1 + I*a*x)^{(I*n - 1)/2} * \text{Sqrt}[1 + a^2*x^2]), x] /; \text{FreeQ}\{a, x\} \&\& \text{IntegerQ}[(I*n - 1)/2]$
5583. $\text{Int}[E^{(\text{ArcTan}[(a_.)(x_.)]*(n_.))}*(x_.)^{(m_.)}, x_Symbol] \rightarrow \text{Int}[x^m*((1 - I*a*x)^{(I*n + 1)/2} / ((1 + I*a*x)^{(I*n - 1)/2} * \text{Sqrt}[1 + a^2*x^2])), x] /; \text{FreeQ}\{a, m\}, x] \&\& \text{IntegerQ}[(I*n - 1)/2]$
5584. $\text{Int}[E^{(\text{ArcTan}[(a_.)(x_.)]*(n_.))}, x_Symbol] \rightarrow \text{Int}[(1 - I*a*x)^{(I*(n/2))} / (1 + I*a*x)^{(I*(n/2))}, x] /; \text{FreeQ}\{a, n\}, x] \&\& !\text{IntegerQ}[(I*n - 1)/2]$
5585. $\text{Int}[E^{(\text{ArcTan}[(a_.)(x_.)]*(n_.))}*(x_.)^{(m_.)}, x_Symbol] \rightarrow \text{Int}[x^m*((1 - I*a*x)^{(I*(n/2))} / (1 + I*a*x)^{(I*(n/2))}), x] /; \text{FreeQ}\{a, m, n\}, x] \&\& !\text{IntegerQ}[(I*n - 1)/2]$
5586. $\text{Int}[E^{(\text{ArcTan}[(a_.)(x_.)]*(n_.))}*(u_.)*((c_.) + (d_.)(x_.))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[c^p \text{ Int}[u*(1 + d*(x/c))^p*((1 - I*a*x)^{(I*(n/2))} / (1 + I*a*x)^{(I*(n/2))}), x], x] /; \text{FreeQ}\{a, c, d, n, p\}, x] \&\& \text{EqQ}[a^2*c^2 + d^2, 0] \&\& (\text{IntegerQ}[p] || \text{GtQ}[c, 0])$

5587. $\text{Int}[E^{\text{ArcTan}[(a_.)(x_.)](n_.)}(u_.)((c_.) + (d_.)(x_.))^{\text{p_.}}, x_Symbol] \rightarrow \text{Int}[u*(c + d*x)^p*((1 - I*a*x)^{\text{I}(n/2)})/(1 + I*a*x)^{\text{I}(n/2)}), x] /; \text{FreeQ}[\{a, c, d, n, p\}, x] \ \&\& \ \text{EqQ}[a^2*c^2 + d^2, 0] \ \&\& \ !(\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0])$
5588. $\text{Int}[E^{\text{ArcTan}[(a_.)(x_.)](n_.)}(u_.)((c_.) + (d_.)/(x_.))^{\text{p_.}}, x_Symbol] \rightarrow \text{Simp}[d^p \ \text{Int}[(u/x^p)*(1 + c*(x/d))^p * E^{\text{n*ArcTan}[a*x]}], x], x] /; \text{FreeQ}[\{a, c, d, n\}, x] \ \&\& \ \text{EqQ}[c^2 + a^2*d^2, 0] \ \&\& \ \text{IntegerQ}[p]$
5589. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_.)](n_.)}(u_.)((c_.) + (d_.)/(x_.))^{\text{p_.}}, x_Symbol] \rightarrow \text{Simp}[(-1)^{\text{n/2}}*c^p \ \text{Int}[u*(1 + d/(c*x))^p*((1 - 1/(I*a*x))^{\text{I}(n/2)})/(1 + 1/(I*a*x))^{\text{I}(n/2)})], x], x] /; \text{FreeQ}[\{a, c, d, p\}, x] \ \&\& \ \text{EqQ}[c^2 + a^2*d^2, 0] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[\text{I}(n/2)] \ \&\& \ \text{GtQ}[c, 0]$
5590. $\text{Int}[E^{\text{ArcTan}[(a_.)(x_.)](n_.)}(u_.)((c_.) + (d_.)/(x_.))^{\text{p_.}}, x_Symbol] \rightarrow \text{Int}[u*(c + d/x)^p*((1 - I*a*x)^{\text{I}(n/2)})/(1 + I*a*x)^{\text{I}(n/2)}), x] /; \text{FreeQ}[\{a, c, d, p\}, x] \ \&\& \ \text{EqQ}[c^2 + a^2*d^2, 0] \ \&\& \ !\text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[\text{I}(n/2)] \ \&\& \ !\text{GtQ}[c, 0]$
5591. $\text{Int}[E^{\text{ArcTan}[(a_.)(x_.)](n_.)}(u_.)((c_.) + (d_.)/(x_.))^{\text{p_.}}, x_Symbol] \rightarrow \text{Simp}[x^p*((c + d/x)^p/(1 + c*(x/d))^p) \ \text{Int}[(u/x^p)*(1 + c*(x/d))^p * E^{\text{n*ArcTan}[a*x]}], x], x] /; \text{FreeQ}[\{a, c, d, n, p\}, x] \ \&\& \ \text{EqQ}[c^2 + a^2*d^2, 0] \ \&\& \ !\text{IntegerQ}[p]$
5592. $\text{Int}[E^{\text{ArcTan}[(a_.)(x_.)](n_.)}((c_.) + (d_.)(x_.)^2)^{\text{3/2}}, x_Symbol] \rightarrow \text{Simp}[(n + a*x)*(E^{\text{n*ArcTan}[a*x]})/(a*c*(n^2 + 1)*\text{Sqrt}[c + d*x^2]), x] /; \text{FreeQ}[\{a, c, d, n\}, x] \ \&\& \ \text{EqQ}[d, a^2*c] \ \&\& \ !\text{IntegerQ}[\text{I}*n]$
5593. $\text{Int}[E^{\text{ArcTan}[(a_.)(x_.)](n_.)}((c_.) + (d_.)(x_.)^2)^{\text{p_.}}, x_Symbol] \rightarrow \text{Simp}[(n - 2*a*(p + 1)*x)*(c + d*x^2)^{\text{p} + 1}*(E^{\text{n*ArcTan}[a*x]})/(a*c*(n^2 + 4*(p + 1)^2)), x] + \text{Simp}[2*(p + 1)*((2*p + 3)/(c*(n^2 + 4*(p + 1)^2))) \ \text{Int}[(c + d*x^2)^{\text{p} + 1} * E^{\text{n*ArcTan}[a*x]}], x], x] /; \text{FreeQ}[\{a, c, d, n\}, x] \ \&\& \ \text{EqQ}[d, a^2*c] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ !\text{IntegerQ}[\text{I}*n] \ \&\& \ \text{NeQ}[n^2 + 4*(p + 1)^2, 0] \ \&\& \ \text{IntegerQ}[2*p]$

5594. `Int[E^(ArcTan[(a_.)*(x_)])*(n_.)/((c_) + (d_.)*(x_)^2), x_Symbol] := Simp[Imp[E^(n*ArcTan[a*x])/(a*c*n), x] /; FreeQ[{a, c, d, n}, x] && EqQ[d, a^2*c]`
5595. `Int[E^(ArcTan[(a_.)*(x_)])*(n_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] := Simp[c^p Int[(1 + a^2*x^2)^(p - I*(n/2))*(1 - I*a*x)^(I*n), x], x] /; FreeQ[{a, c, d, p}, x] && EqQ[d, a^2*c] && IntegerQ[p] && IntegerQ[(I*n + 1)/2] && !IntegerQ[p - I*(n/2)]`
5596. `Int[E^(ArcTan[(a_.)*(x_)])*(n_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] := Simp[c^p Int[(1 - I*a*x)^(p + I*(n/2))*(1 + I*a*x)^(p - I*(n/2)), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[d, a^2*c] && (IntegerQ[p] || GtQ[c, 0])`
5597. `Int[E^(ArcTan[(a_.)*(x_)])*(n_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] := Simp[c^(I*(n/2)) Int[(c + d*x^2)^(p - I*(n/2))*(1 - I*a*x)^(I*n), x], x] /; FreeQ[{a, c, d, p}, x] && EqQ[d, a^2*c] && !(IntegerQ[p] || GtQ[c, 0]) && IGtQ[I*(n/2), 0]`
5598. `Int[E^(ArcTan[(a_.)*(x_)])*(n_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] := Simp[1/c^(I*(n/2)) Int[(c + d*x^2)^(p + I*(n/2))/(1 + I*a*x)^(I*n), x], x] /; FreeQ[{a, c, d, p}, x] && EqQ[d, a^2*c] && !(IntegerQ[p] || GtQ[c, 0]) && ILtQ[I*(n/2), 0]`
5599. `Int[E^(ArcTan[(a_.)*(x_)])*(n_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] := Simp[c^IntPart[p]*((c + d*x^2)^FracPart[p]/(1 + a^2*x^2)^FracPart[p]) Int[(1 + a^2*x^2)^p*E^(n*ArcTan[a*x]), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[d, a^2*c] && !(IntegerQ[p] || GtQ[c, 0])`
5600. `Int[(E^(ArcTan[(a_.)*(x_)])*(n_.)*(x_))/((c_) + (d_.)*(x_)^2)^(3/2), x_Symbol] := Simp[(-1 - a*n*x)*(E^(n*ArcTan[a*x])/(d*(n^2 + 1)*Sqrt[c + d*x^2])), x] /; FreeQ[{a, c, d, n}, x] && EqQ[d, a^2*c] && !IntegerQ[I*n]`

5601. $\text{Int}[E^{\text{ArcTan}[(a_)(x_)](n_)}(x_)((c_)+(d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(c+d*x^2)^{(p+1)}(E^{n*\text{ArcTan}[a*x]}(2*d*(p+1))), x] - \text{Simp}[a*c*(n/(2*d*(p+1))) \text{Int}[(c+d*x^2)^p E^{n*\text{ArcTan}[a*x]}], x], x] /; \text{FreeQ}[\{a, c, d, n\}, x] \&\& \text{EqQ}[d, a^2*c] \&\& \text{LtQ}[p, -1] \&\& !\text{IntegerQ}[I*n] \&\& \text{IntegerQ}[2*p]$
5602. $\text{Int}[E^{\text{ArcTan}[(a_)(x_)](n_)}(x_)^2((c_)+(d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(-1-a*n*x)*(c+d*x^2)^{(p+1)}(E^{n*\text{ArcTan}[a*x]})/(a*d*n*(n^2+1)), x] /; \text{FreeQ}[\{a, c, d, n\}, x] \&\& \text{EqQ}[d, a^2*c] \&\& \text{EqQ}[n^2-2*(p+1), 0] \&\& !\text{IntegerQ}[I*n]$
5603. $\text{Int}[E^{\text{ArcTan}[(a_)(x_)](n_)}(x_)^2((c_)+(d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(-n-2*(p+1)*a*x)*(c+d*x^2)^{(p+1)}(E^{n*\text{ArcTan}[a*x]})/(a*d*(n^2+4*(p+1)^2)), x] + \text{Simp}[(n^2-2*(p+1))/(d*(n^2+4*(p+1)^2)) \text{Int}[(c+d*x^2)^{(p+1)}E^{n*\text{ArcTan}[a*x]}], x], x] /; \text{FreeQ}[\{a, c, d, n\}, x] \&\& \text{EqQ}[d, a^2*c] \&\& \text{LtQ}[p, -1] \&\& !\text{IntegerQ}[I*n] \&\& \text{NeQ}[n^2+4*(p+1)^2, 0] \&\& \text{IntegerQ}[2*p]$
5604. $\text{Int}[E^{\text{ArcTan}[(a_)(x_)](n_)}(x_)^{(m_)}((c_)+(d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^p \text{Int}[x^m*(1+a^2*x^2)^{(p-I*(n/2))}(1-I*a*x)^{(I*n)}, x], x] /; \text{FreeQ}[\{a, c, d, m, p\}, x] \&\& \text{EqQ}[d, a^2*c] \&\& (\text{IntegerQ}[p] || \text{GtQ}[c, 0]) \&\& \text{IntegerQ}[(I*n+1)/2] \&\& !\text{IntegerQ}[p-I*(n/2)]$
5605. $\text{Int}[E^{\text{ArcTan}[(a_)(x_)](n_)}(x_)^{(m_)}((c_)+(d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^p \text{Int}[x^m*(1-I*a*x)^{(p+I*(n/2))}(1+I*a*x)^{(p-I*(n/2))}, x], x] /; \text{FreeQ}[\{a, c, d, m, n, p\}, x] \&\& \text{EqQ}[d, a^2*c] \&\& (\text{IntegerQ}[p] || \text{GtQ}[c, 0])$
5606. $\text{Int}[E^{\text{ArcTan}[(a_)(x_)](n_)}(x_)^{(m_)}((c_)+(d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^{I*(n/2)} \text{Int}[x^m*(c+d*x^2)^{(p-I*(n/2))}(1-I*a*x)^{(I*n)}, x], x] /; \text{FreeQ}[\{a, c, d, m, p\}, x] \&\& \text{EqQ}[d, a^2*c] \&\& !(\text{IntegerQ}[p] || \text{GtQ}[c, 0]) \&\& \text{IGtQ}[I*(n/2), 0]$
5607. $\text{Int}[E^{\text{ArcTan}[(a_)(x_)](n_)}(x_)^{(m_)}((c_)+(d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/c^{I*(n/2)} \text{Int}[x^m*((c+d*x^2)^{(p+I*(n/2))}/(1+I*a*x)^{(I*n))}, x], x] /; \text{FreeQ}[\{a, c, d, m, p\}, x] \&\& \text{EqQ}[d, a^2*c]$

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c] && !(IntegerQ[p] || GtQ[c, 0]) && ILtQ[I*(n/2), 0]

5608. Int[E^(ArcTan[(a_.)*(x_.)]*(n_.))*(x_)^(m_.)*((c_) + (d_.)*(x_)^2)^(p_)
, x_Symbol] :> Simp[c^IntPart[p]*((c + d*x^2)^FracPart[p]/(1 + a^2*x^2)
)^FracPart[p] Int[x^m*(1 + a^2*x^2)^p*E^(n*ArcTan[a*x]), x], x] /;
FreeQ[{a, c, d, m, n, p}, x] && EqQ[d, a^2*c] && !(IntegerQ[p] || GtQ
[c, 0])

5609. Int[E^(ArcTan[(a_.)*(x_.)]*(n_.))*(u_)*((c_) + (d_.)*(x_)^2)^(p_.), x_S
ymbol] :> Simp[c^p Int[u*(1 - I*a*x)^(p + I*(n/2))*(1 + I*a*x)^(p -
I*(n/2)), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[d, a^2*c] && (Int
egerQ[p] || GtQ[c, 0])

5610. Int[E^(ArcTan[(a_.)*(x_.)]*(n_.))*(u_)*((c_) + (d_.)*(x_)^2)^(p_.), x_Sy
mbol] :> Simp[c^IntPart[p]*((c + d*x^2)^FracPart[p]/((1 - I*a*x)^FracP
art[p]*(1 + I*a*x)^FracPart[p])) Int[u*(1 - I*a*x)^(p + I*(n/2))*(1
+ I*a*x)^(p - I*(n/2)), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[d,
a^2*c] && (IntegerQ[p] || GtQ[c, 0]) && IntegerQ[I*(n/2)]

5611. Int[E^(ArcTan[(a_.)*(x_.)]*(n_.))*(u_)*((c_) + (d_.)*(x_)^2)^(p_.), x_Sy
mbol] :> Simp[c^IntPart[p]*((c + d*x^2)^FracPart[p]/(1 + a^2*x^2)^Frac
Part[p]) Int[u*(1 + a^2*x^2)^p*E^(n*ArcTan[a*x]), x], x] /; FreeQ[{a
, c, d, n, p}, x] && EqQ[d, a^2*c] && !(IntegerQ[p] || GtQ[c, 0]) &&
!IntegerQ[I*(n/2)]

5612. Int[E^(ArcTan[(a_.)*(x_.)]*(n_.))*(u_.)*((c_) + (d_.)/(x_)^2)^(p_.), x_
Symbol] :> Simp[d^p Int[(u/x^(2*p))*(1 + a^2*x^2)^p*E^(n*ArcTan[a*x]
), x], x] /; FreeQ[{a, c, d, n}, x] && EqQ[c - a^2*d, 0] && IntegerQ[p
]

5613. Int[E^(ArcTan[(a_.)*(x_.)]*(n_.))*(u_.)*((c_) + (d_.)/(x_)^2)^(p_.), x_Sy
mbol] :> Simp[c^p Int[u*(1 - I/(a*x))^p*(1 + I/(a*x))^p*E^(n*ArcTan[
a*x]), x], x] /; FreeQ[{a, c, d, p}, x] && EqQ[c - a^2*d, 0] && !Inte
gerQ[p] && IntegerQ[I*(n/2)] && GtQ[c, 0]

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5614.  $\text{Int}[E^{\text{ArcTan}[(a\_)*(x\_)]*(n\_)}*(u\_)*((c\_)+(d\_)/(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[x^{(2*p)}*((c+d/x^2)^p/(1+a^2*x^2)^p) \text{Int}[u*((1+a^2*x^2)^{(I*(n/2)+p})/(x^{(2*p)}*(1+I*a*x)^{(I*n)})), x], x] /; \text{FreeQ}[\{a, c, d, p\}, x] \&\& \text{EqQ}[c-a^2*d, 0] \&\& !\text{IntegerQ}[p] \&\& \text{IntegerQ}[I*(n/2)] \&\& !\text{GtQ}[c, 0]$
5615.  $\text{Int}[E^{\text{ArcTan}[(a\_)*(x\_)]*(n\_)}*(u\_)*((c\_)+(d\_)/(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[x^{(2*p)}*((c+d/x^2)^p/(1+a^2*x^2)^p) \text{Int}[(u/x^{(2*p)})*(1+a^2*x^2)^p*E^{(n*\text{ArcTan}[a*x])}, x], x] /; \text{FreeQ}[\{a, c, d, n, p\}, x] \&\& \text{EqQ}[c-a^2*d, 0] \&\& !\text{IntegerQ}[p] \&\& !\text{IntegerQ}[I*(n/2)]$
5616.  $\text{Int}[E^{\text{ArcTan}[(c\_)*((a\_)+(b\_)*(x\_))]*(n\_)}, x\_Symbol] \rightarrow \text{Int}[(1-I*a*c-I*b*c*x)^{(I*(n/2))}/(1+I*a*c+I*b*c*x)^{(I*(n/2))}, x] /; \text{FreeQ}[\{a, b, c, n\}, x]$
5617.  $\text{Int}[E^{\text{ArcTan}[(c\_)*((a\_)+(b\_)*(x\_))]*(n\_)}*(x\_)^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[4/(I^m*n*b^{(m+1)}*c^{(m+1)}) \text{Subst}[\text{Int}[x^{(2/(I*n))}*((1-I*a*c-(1+I*a*c)*x^{(2/(I*n))})^m/(1+x^{(2/(I*n))})^{(m+2)}), x], x, (1-I*c*(a+b*x))^{(I*(n/2))}/(1+I*c*(a+b*x))^{(I*(n/2))}], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{ILtQ}[m, 0] \&\& \text{LtQ}[-1, I*n, 1]$
5618.  $\text{Int}[E^{\text{ArcTan}[(c\_)*((a\_)+(b\_)*(x\_))]*(n\_)}*((d\_)+(e\_)*(x\_))^{(m\_)}, x\_Symbol] \rightarrow \text{Int}[(d+e*x)^m*((1-I*a*c-I*b*c*x)^{(I*(n/2))}/(1+I*a*c+I*b*c*x)^{(I*(n/2))}), x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$
5619.  $\text{Int}[E^{\text{ArcTan}[(a\_)+(b\_)*(x\_)]*(n\_)}*(u\_)*((c\_)+(d\_)*(x\_)+(e\_)*(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(c/(1+a^2))^p \text{Int}[u*(1-I*a-I*b*x)^{(p+I*(n/2))}*(1+I*a+I*b*x)^{(p-I*(n/2))}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, p\}, x] \&\& \text{EqQ}[b*d, 2*a*e] \&\& \text{EqQ}[b^2*c-e*(1+a^2), 0] \&\& (\text{IntegerQ}[p] \parallel \text{GtQ}[c/(1+a^2), 0])$
5620.  $\text{Int}[E^{\text{ArcTan}[(a\_)+(b\_)*(x\_)]*(n\_)}*(u\_)*((c\_)+(d\_)*(x\_)+(e\_)*(x\_)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[(c+d*x+e*x^2)^p/(1+a^2+2*a*b*x+b^2*x^2)^p \text{Int}[u*(1+a^2+2*a*b*x+b^2*x^2)^p*E^{(n*\text{ArcTan}[a*x])}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n, p\}, x] \&\& \text{EqQ}[b*d, 2*a*e] \&\& \text{EqQ}[b^2*c-e*(1+a^2), 0] \&\& !(\text{IntegerQ}[p] \parallel \text{GtQ}[c/(1+a^2), 0])$

5621.  $\text{Int}[E^{\text{ArcTan}[(c\_)/(a\_ + (b\_)(x\_))]}(n\_)(u\_), x\_Symbol] \rightarrow \text{Int}[uE^{n\text{ArcCot}[a/c + b(x/c)]}, x] /; \text{FreeQ}\{a, b, c, n\}, x]$
5622.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)]}(n\_)(u\_), x\_Symbol] \rightarrow \text{Simp}[(-1)^{I(n/2)} \text{Int}[u/E^{n\text{ArcTan}[a*x]}, x], x] /; \text{FreeQ}[a, x] \&\& \text{IntegerQ}[I(n/2)]$
5623.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)]}(n\_), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 - I(x/a))^{\frac{I*n + 1}{2}}/(x^2(1 + I(x/a))^{\frac{I*n - 1}{2}}\text{Sqrt}[1 + x^2/a^2]), x], x, 1/x] /; \text{FreeQ}[a, x] \&\& \text{IntegerQ}[(I*n - 1)/2]$
5624.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)]}(n\_)(x_)^{(m\_)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 - I(x/a))^{\frac{I*n + 1}{2}}/(x^{(m + 2)}(1 + I(x/a))^{\frac{I*n - 1}{2}}\text{Sqrt}[1 + x^2/a^2]), x], x, 1/x] /; \text{FreeQ}[a, x] \&\& \text{IntegerQ}[(I*n - 1)/2] \&\& \text{IntegerQ}[m]$
5625.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)]}(n\_), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 - I(x/a))^{I(n/2)}/(x^2(1 + I(x/a))^{I(n/2)}), x], x, 1/x] /; \text{FreeQ}\{a, n\}, x] \&\& !\text{IntegerQ}[I*n]$
5626.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)]}(n\_)(x_)^{(m\_)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 - I(x/a))^{n/2}/(x^{(m + 2)}(1 + I(x/a))^{n/2}), x], x, 1/x] /; \text{FreeQ}\{a, n\}, x] \&\& !\text{IntegerQ}[I*n] \&\& \text{IntegerQ}[m]$
5627.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)]}(n\_)(x_)^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[(-x^m)(1/x)^m \text{Subst}[\text{Int}[(1 - I(x/a))^{\frac{I*n + 1}{2}}/(x^{(m + 2)}(1 + I(x/a))^{\frac{I*n - 1}{2}}\text{Sqrt}[1 + x^2/a^2]), x], x, 1/x], x] /; \text{FreeQ}\{a, m\}, x] \&\& \text{IntegerQ}[(I*n - 1)/2] \&\& !\text{IntegerQ}[m]$
5628.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)]}(n\_)(x_)^{(m\_)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 - I(x/a))^{n/2}/(x^{(m + 2)}(1 + I(x/a))^{n/2}), x], x, 1/x] /; \text{FreeQ}\{a, m, n\}, x] \&\& !\text{IntegerQ}[I(n/2)] \&\& !\text{IntegerQ}[m]$
5629.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)]}(n\_)(u\_)((c\_ + (d\_)(x_))^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[d^p \text{Int}[u*x^p(1 + c/(d*x))^p E^{n\text{ArcCot}[a*x]}, x], x] /; \text{FreeQ}\{a, c, d, n\}, x] \&\& \text{EqQ}[a^2*c^2 + d^2, 0] \&\& !\text{IntegerQ}[I*($

- $n/2]$  && IntegerQ[p]
5630. `Int[E^(ArcCot[(a_.)*(x_)]*(n_.))*((c_) + (d_.)*(x_))^(p_), x_Symbol]
:> Simp[(c + d*x)^p/(x^p*(1 + c/(d*x))^p) Int[u*x^p*(1 + c/(d*x))^p*E^(n*ArcCot[a*x]), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[a^2*c^2 + d^2, 0] && !IntegerQ[I*(n/2)] && !IntegerQ[p]`
5631. `Int[E^(ArcCot[(a_.)*(x_)]*(n_.))*((c_) + (d_.)/(x_))^(p_), x_Symbol]
:> Simp[-c^p Subst[Int[(1 + d*(x/c))^p*((1 - I*(x/a))^(I*(n/2)))/(x^(m + 2)*(1 + I*(x/a))^(I*(n/2)))], x], x, 1/x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[c^2 + a^2*d^2, 0] && !IntegerQ[I*(n/2)] && (IntegerQ[p] || GtQ[c, 0])`
5632. `Int[E^(ArcCot[(a_.)*(x_)]*(n_.))*((c_) + (d_.)/(x_))^(p_.)*(x_)^(m_.), x_Symbol]
:> Simp[-c^p Subst[Int[(1 + d*(x/c))^p*((1 - I*(x/a))^(I*(n/2)))/(x^(m + 2)*(1 + I*(x/a))^(I*(n/2)))], x], x, 1/x], x] /; FreeQ[{a, c, d, m, n, p}, x] && EqQ[c^2 + a^2*d^2, 0] && !IntegerQ[I*(n/2)] && (IntegerQ[p] || GtQ[c, 0]) && IntegerQ[m]`
5633. `Int[E^(ArcCot[(a_.)*(x_)]*(n_.))*((c_) + (d_.)/(x_))^(p_), x_Symbol]
:> Simp[(c + d/x)^p/(1 + d/(c*x))^p Int[(1 + d/(c*x))^p*E^(n*ArcCot[a*x]), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[c^2 + a^2*d^2, 0] && !IntegerQ[I*(n/2)] && !(IntegerQ[p] || GtQ[c, 0])`
5634. `Int[E^(ArcCot[(a_.)*(x_)]*(n_.))*((c_) + (d_.)/(x_))^(p_.)*(x_)^(m_), x_Symbol]
:> Simp[(-c^p)*x^m*(1/x)^m Subst[Int[(1 + d*(x/c))^p*((1 - I*(x/a))^(I*(n/2)))/(x^(m + 2)*(1 + I*(x/a))^(I*(n/2)))], x], x, 1/x], x] /; FreeQ[{a, c, d, m, n, p}, x] && EqQ[c^2 + a^2*d^2, 0] && !IntegerQ[I*(n/2)] && (IntegerQ[p] || GtQ[c, 0]) && !IntegerQ[m]`
5635. `Int[E^(ArcCot[(a_.)*(x_)]*(n_.))*((c_) + (d_.)/(x_))^(p_), x_Symbol]
:> Simp[(c + d/x)^p/(1 + d/(c*x))^p Int[u*(1 + d/(c*x))^p*E^(n*ArcCot[a*x]), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[c^2 + a^2*d^2, 0] && !IntegerQ[I*(n/2)] && !(IntegerQ[p] || GtQ[c, 0])`



5636.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)](n\_)} / ((c\_ + (d\_)(x\_)^2), x\_Symbol] \rightarrow \text{Simp}[-E^{\text{ArcCot}[a*x]} / (a*c*n), x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c]$
5637.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)](n\_)} / ((c\_ + (d\_)(x\_)^2)^{3/2}), x\_Symbol] \rightarrow \text{Simp}[(-n - a*x) * (E^{\text{ArcCot}[a*x]} / (a*c*(n^2 + 1)*\text{Sqrt}[c + d*x^2])), x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& !\text{IntegerQ}[(I*n - 1)/2]$
5638.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)](n\_)} * ((c\_ + (d\_)(x\_)^2)^{p\_}), x\_Symbol] \rightarrow \text{Simp}[(-n + 2*a*(p + 1)*x) * (c + d*x^2)^{p + 1} * (E^{\text{ArcCot}[a*x]} / (a*c*(n^2 + 4*(p + 1)^2))), x] + \text{Simp}[2*(p + 1) * ((2*p + 3) / (c*(n^2 + 4*(p + 1)^2))) \text{Int}[(c + d*x^2)^{p + 1} * E^{\text{ArcCot}[a*x]}, x], x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -3/2] \&\& \text{NeQ}[n^2 + 4*(p + 1)^2, 0] \&\& !(IntegerQ[p] \&\& IntegerQ[I*(n/2)]) \&\& !(IntegerQ[p] \&\& IntegerQ[(I*n - 1)/2])$
5639.  $\text{Int}[(E^{\text{ArcCot}[(a\_)(x\_)](n\_)} * (x\_)) / ((c\_ + (d\_)(x\_)^2)^{3/2}), x\_Symbol] \rightarrow \text{Simp}[(-1 + a*n*x) * (E^{\text{ArcCot}[a*x]} / (a^2*c*(n^2 + 1)*\text{Sqrt}[c + d*x^2])), x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& !\text{IntegerQ}[(I*n - 1)/2]$
5640.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)](n\_)} * (x\_)*((c\_ + (d\_)(x\_)^2)^{p\_}), x\_Symbol] \rightarrow \text{Simp}[(2*(p + 1) - a*n*x) * (c + d*x^2)^{p + 1} * (E^{\text{ArcCot}[a*x]} / (a^2*c*(n^2 + 4*(p + 1)^2))), x] + \text{Simp}[n * ((2*p + 3) / (a*c*(n^2 + 4*(p + 1)^2))) \text{Int}[(c + d*x^2)^{p + 1} * E^{\text{ArcCot}[a*x]}, x], x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& \text{LeQ}[p, -1] \&\& \text{NeQ}[p, -3/2] \&\& \text{NeQ}[n^2 + 4*(p + 1)^2, 0] \&\& !(IntegerQ[p] \&\& IntegerQ[I*(n/2)]) \&\& !(IntegerQ[p] \&\& IntegerQ[(I*n - 1)/2])$
5641.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)](n\_)} * (x\_)^2 * ((c\_ + (d\_)(x\_)^2)^{p\_}), x\_Symbol] \rightarrow \text{Simp}[(n + 2*(p + 1)*a*x) * (c + d*x^2)^{p + 1} * (E^{\text{ArcCot}[a*x]} / (a^3*c*n^2*(n^2 + 1))), x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& \text{EqQ}[n^2 - 2*(p + 1), 0] \&\& \text{NeQ}[n^2 + 1, 0]$
5642.  $\text{Int}[E^{\text{ArcCot}[(a\_)(x\_)](n\_)} * (x\_)^2 * ((c\_ + (d\_)(x\_)^2)^{p\_}), x\_Symbol] \rightarrow \text{Simp}[(n + 2*(p + 1)*a*x) * (c + d*x^2)^{p + 1} * (E^{\text{ArcCot}[a$

- $$\frac{*x]}{(a^3*c*(n^2 + 4*(p + 1)^2))}, x] + \text{Simp}[(n^2 - 2*(p + 1))/(a^2*c*(n^2 + 4*(p + 1)^2)) \text{Int}[(c + d*x^2)^(p + 1)*E^(n*\text{ArcCot}[a*x]), x], x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& \text{LeQ}[p, -1] \&\& \text{NeQ}[n^2 - 2*(p + 1), 0] \&\& \text{NeQ}[n^2 + 4*(p + 1)^2, 0] \&\& !( \text{IntegerQ}[p] \&\& \text{IntegerQ}[I*(n/2)]) \&\& !( !\text{IntegerQ}[p] \&\& \text{IntegerQ}[(I*n - 1)/2])$$
5643.  $\text{Int}[E^{(\text{ArcCot}[(a\_)*(x\_)]*(n\_))*(x\_)^{(m\_)*((c\_)+(d\_)*(x\_)^2)^{(p\_)}}, x\_Symbol] :> \text{Simp}[-c^p/a^{(m+1)} \text{Subst}[\text{Int}[E^{(n*x)}*(\text{Cot}[x]^{(m+2*(p+1))/\text{Cos}[x]^{(2*(p+1))})}, x], x, \text{ArcCot}[a*x]], x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& \text{IntegerQ}[m] \&\& \text{LeQ}[3, m, -2*(p+1)] \&\& \text{IntegerQ}[p]$
5644.  $\text{Int}[E^{(\text{ArcCot}[(a\_)*(x\_)]*(n\_))*(u\_)*((c\_)+(d\_)*(x\_)^2)^{(p\_)}}, x\_Symbol] :> \text{Simp}[d^p \text{Int}[u*x^{(2*p)}*(1 + 1/(a^2*x^2))^p * E^{(n*\text{ArcCot}[a*x])}, x], x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& !\text{IntegerQ}[I*(n/2)] \&\& \text{IntegerQ}[p]$
5645.  $\text{Int}[E^{(\text{ArcCot}[(a\_)*(x\_)]*(n\_))*(u\_)*((c\_)+(d\_)*(x\_)^2)^{(p\_)}}, x\_Symbol] :> \text{Simp}[(c + d*x^2)^p/(x^{(2*p)}*(1 + 1/(a^2*x^2))^p) \text{Int}[u*x^{(2*p)}*(1 + 1/(a^2*x^2))^p * E^{(n*\text{ArcCot}[a*x])}, x], x] /; \text{FreeQ}\{a, c, d, n, p\}, x\} \&\& \text{EqQ}[d, a^2*c] \&\& !\text{IntegerQ}[I*(n/2)] \&\& !\text{IntegerQ}[p]$
5646.  $\text{Int}[E^{(\text{ArcCot}[(a\_)*(x\_)]*(n\_))*(u\_)*((c\_)+(d\_)/(x\_)^2)^{(p\_)}}, x\_Symbol] :> \text{Simp}[c^p/(I*a)^{(2*p)} \text{Int}[(u/x^{(2*p)})*(-1 + I*a*x)^{(p - I*(n/2))}*(1 + I*a*x)^{(p + I*(n/2))}, x], x] /; \text{FreeQ}\{a, c, d, n, p\}, x\} \&\& \text{EqQ}[c, a^2*d] \&\& !\text{IntegerQ}[I*(n/2)] \&\& (\text{IntegerQ}[p] || \text{GtQ}[c, 0]) \&\& \text{IntegersQ}[2*p, p + I*(n/2)]$
5647.  $\text{Int}[E^{(\text{ArcCot}[(a\_)*(x\_)]*(n\_))*((c\_)+(d\_)/(x\_)^2)^{(p\_)}}, x\_Symbol] :> \text{Simp}[-c^p \text{Subst}[\text{Int}[(1 - I*(x/a))^{(p + I*(n/2))}*((1 + I*(x/a))^{(p - I*(n/2))}/x^2), x], x, 1/x], x] /; \text{FreeQ}\{a, c, d, n, p\}, x\} \&\& \text{EqQ}[c, a^2*d] \&\& !\text{IntegerQ}[I*(n/2)] \&\& (\text{IntegerQ}[p] || \text{GtQ}[c, 0]) \&\& !(\text{IntegerQ}[2*p] \&\& \text{IntegerQ}[p + I*(n/2)])$
5648.  $\text{Int}[E^{(\text{ArcCot}[(a\_)*(x\_)]*(n\_))*((c\_)+(d\_)/(x\_)^2)^{(p\_)*(x\_)^{(m\_)}}, x\_Symbol] :> \text{Simp}[-c^p \text{Subst}[\text{Int}[(1 - I*(x/a))^{(p + I*(n/2))}*((1 + I*(x/a))^{(p - I*(n/2))}/x^{(m+2)}), x], x, 1/x], x] /; \text{FreeQ}\{a, c, d,$

- , n, p}, x] && EqQ[c, a^2\*d] && !IntegerQ[I\*(n/2)] && (IntegerQ[p] || GtQ[c, 0]) && !(IntegerQ[2\*p] && IntegerQ[p + I\*(n/2)]) && IntegerQ[m]
5649. Int[E^(ArcCot[(a\_.)\*(x\_)])\*(n\_.))\*((c\_) + (d\_.)/(x\_)^2)^(p\_.)\*(x\_)^(m\_), x\_Symbol] :> Simp[(-c^p)\*x^m\*(1/x)^m Subst[Int[(1 - I\*(x/a))^(p + I\*(n/2))\*((1 + I\*(x/a))^(p - I\*(n/2)))/x^(m + 2)], x], x, 1/x], x] /; FreeQ[{a, c, d, m, n, p}, x] && EqQ[c, a^2\*d] && !IntegerQ[I\*(n/2)] && (IntegerQ[p] || GtQ[c, 0]) && !(IntegerQ[2\*p] && IntegerQ[p + I\*(n/2)]) && !IntegerQ[m]
5650. Int[E^(ArcCot[(a\_.)\*(x\_)])\*(n\_.))\*(u\_.)\*((c\_) + (d\_.)/(x\_)^2)^(p\_), x\_Symbol] :> Simp[(c + d/x^2)^p/(1 + 1/(a^2\*x^2))^p Int[u\*(1 + 1/(a^2\*x^2))^p\*E^(n\*ArcCot[a\*x]), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[c, a^2\*d] && !IntegerQ[I\*(n/2)] && !(IntegerQ[p] || GtQ[c, 0])
5651. Int[E^(ArcCot[(c\_.)\*((a\_) + (b\_.)\*(x\_))])\*(n\_.)\*(u\_.), x\_Symbol] :> Simp[(-1)^(I\*(n/2)) Int[u/E^(n\*ArcTan[c\*(a + b\*x)]), x], x] /; FreeQ[{a, b, c}, x] && IntegerQ[I\*(n/2)]
5652. Int[E^(ArcCot[(c\_.)\*((a\_) + (b\_.)\*(x\_))])\*(n\_.), x\_Symbol] :> Simp[(I\*c\*(a + b\*x))^(I\*(n/2))\*((1 + 1/(I\*c\*(a + b\*x)))^(I\*(n/2)))/(1 + I\*a\*c + I\*b\*c\*x)^(I\*(n/2)) Int[(1 + I\*a\*c + I\*b\*c\*x)^(I\*(n/2))/(-1 + I\*a\*c + I\*b\*c\*x)^(I\*(n/2)), x], x] /; FreeQ[{a, b, c, n}, x] && !IntegerQ[I\*(n/2)]
5653. Int[E^(ArcCoth[(c\_.)\*((a\_) + (b\_.)\*(x\_))])\*(n\_.)\*(x\_)^(m\_), x\_Symbol] :> Simp[4/(I^m\*n\*b^(m + 1)\*c^(m + 1)) Subst[Int[x^(2/(I\*n))\*((1 + I\*a\*c + (1 - I\*a\*c)\*x^(2/(I\*n)))^m/(-1 + x^(2/(I\*n)))^(m + 2)), x], x, (1 + 1/(I\*c\*(a + b\*x)))^(I\*(n/2))/(1 - 1/(I\*c\*(a + b\*x)))^(I\*(n/2))], x] /; FreeQ[{a, b, c}, x] && ILtQ[m, 0] && LtQ[-1, I\*n, 1]
5654. Int[E^(ArcCoth[(c\_.)\*((a\_) + (b\_.)\*(x\_))])\*(n\_.)\*((d\_.) + (e\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(I\*c\*(a + b\*x))^(I\*(n/2))\*((1 + 1/(I\*c\*(a + b\*x)))^(I\*(n/2)))/(1 + I\*a\*c + I\*b\*c\*x)^(I\*(n/2)) Int[(d + e\*x)^m\*((1 + I\*a\*c + I\*b\*c\*x)^(I\*(n/2)))/(-1 + I\*a\*c + I\*b\*c\*x)^(I\*(n/2))], x], x

- $$] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x\} \&\& \text{!IntegerQ}[I*(n/2)]$$
5655. 
$$\text{Int}[E^{\text{ArcCot}[(a_) + (b_)*(x_)]*(n_)}*(u_)*((c_) + (d_)*(x_) + (e_)*(x_)^2)^{(p_)}, x\_Symbol] \text{:> Simp}[(c/(1 + a^2))^p*((I*a + I*b*x)/(1 + I*a + I*b*x))^{I*(n/2)}*((1 + I*a + I*b*x)/(I*a + I*b*x))^{I*(n/2)}*((1 - I*a - I*b*x)^{I*(n/2)} / (-1 + I*a + I*b*x)^{I*(n/2)})] \text{Int}[u*(1 - I*a - I*b*x)^{(p - I*(n/2))}*(1 + I*a + I*b*x)^{(p + I*(n/2))}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n, p\}, x\} \&\& \text{!IntegerQ}[I*(n/2)] \&\& \text{EqQ}[b*d - 2*a*e, 0] \&\& \text{EqQ}[b^2*c - e*(1 + a^2), 0] \&\& (\text{IntegerQ}[p] || \text{GtQ}[c/(1 + a^2), 0])$$
5656. 
$$\text{Int}[E^{\text{ArcCot}[(a_) + (b_)*(x_)]*(n_)}*(u_)*((c_) + (d_)*(x_) + (e_)*(x_)^2)^{(p_)}, x\_Symbol] \text{:> Simp}[(c + d*x + e*x^2)^p/(1 + a^2 + 2*a*b*x + b^2*x^2)^p \text{Int}[u*(1 + a^2 + 2*a*b*x + b^2*x^2)^p * E^{(n*\text{ArcCot}[a*x])}, x], x] /; \text{FreeQ}\{a, b, c, d, e, n, p\}, x\} \&\& \text{!IntegerQ}[I*(n/2)] \&\& \text{EqQ}[b*d - 2*a*e, 0] \&\& \text{EqQ}[b^2*c - e*(1 + a^2), 0] \&\& !(\text{IntegerQ}[p] || \text{GtQ}[c/(1 + a^2), 0])$$
5657. 
$$\text{Int}[E^{\text{ArcCot}[(c_)/((a_) + (b_)*(x_))]}*(n_)* (u_), x\_Symbol] \text{:> Int}[u * E^{(n*\text{ArcTan}[a/c + b*(x/c)])}, x] /; \text{FreeQ}\{a, b, c, n\}, x\}$$
5658. 
$$\text{Int}[\text{ArcTan}[(a_) + (b_)*(x_)^{(n_)}], x\_Symbol] \text{:> Simp}[x*\text{ArcTan}[a + b*x^n], x] - \text{Simp}[b*n \text{Int}[x^n/(1 + a^2 + 2*a*b*x^n + b^2*x^{(2*n)}), x], x] /; \text{FreeQ}\{a, b, n\}, x\}$$
5659. 
$$\text{Int}[\text{ArcCot}[(a_) + (b_)*(x_)^{(n_)}], x\_Symbol] \text{:> Simp}[x*\text{ArcCot}[a + b*x^n], x] + \text{Simp}[b*n \text{Int}[x^n/(1 + a^2 + 2*a*b*x^n + b^2*x^{(2*n)}), x], x] /; \text{FreeQ}\{a, b, n\}, x\}$$
5660. 
$$\text{Int}[\text{ArcTan}[(a_) + (b_)*(x_)^{(n_)}]/(x_), x\_Symbol] \text{:> Simp}[I/2 \text{Int}[\text{Log}[1 - I*a - I*b*x^n]/x, x], x] - \text{Simp}[I/2 \text{Int}[\text{Log}[1 + I*a + I*b*x^n]/x, x], x] /; \text{FreeQ}\{a, b, n\}, x\}$$
5661. 
$$\text{Int}[\text{ArcCot}[(a_) + (b_)*(x_)^{(n_)}]/(x_), x\_Symbol] \text{:> Simp}[I/2 \text{Int}[\text{Log}[1 - I/(a + b*x^n)]/x, x], x] - \text{Simp}[I/2 \text{Int}[\text{Log}[1 + I/(a + b*x^n)]/x, x], x] /; \text{FreeQ}\{a, b, n\}, x\}$$

5662.  $\text{Int}[\text{ArcTan}[(a_) + (b_)*(x_)^(n_)]*(x_)^(m_), x\_Symbol] \rightarrow \text{Simp}[x^(m + 1)*(\text{ArcTan}[a + b*x^n]/(m + 1)), x] - \text{Simp}[b*(n/(m + 1)) \text{Int}[x^(m + n)/(1 + a^2 + 2*a*b*x^n + b^2*x^(2*n)), x], x] /;$   $\text{FreeQ}\{a, b\}, x \} \&\& \text{RationalQ}[m, n] \&\& m + 1 \neq 0 \&\& m + 1 \neq n$
5663.  $\text{Int}[\text{ArcCot}[(a_) + (b_)*(x_)^(n_)]*(x_)^(m_), x\_Symbol] \rightarrow \text{Simp}[x^(m + 1)*(\text{ArcCot}[a + b*x^n]/(m + 1)), x] + \text{Simp}[b*(n/(m + 1)) \text{Int}[x^(m + n)/(1 + a^2 + 2*a*b*x^n + b^2*x^(2*n)), x], x] /;$   $\text{FreeQ}\{a, b\}, x \} \&\& \text{RationalQ}[m, n] \&\& m + 1 \neq 0 \&\& m + 1 \neq n$
5664.  $\text{Int}[\text{ArcTan}[(a_) + (b_)*(f_)^(c_ + (d_)*(x_))], x\_Symbol] \rightarrow \text{Simp}[\text{I}/2 \text{Int}[\text{Log}[1 - \text{I}*a - \text{I}*b*f^(c + d*x)], x], x] - \text{Simp}[\text{I}/2 \text{Int}[\text{Log}[1 + \text{I}*a + \text{I}*b*f^(c + d*x)], x], x] /;$   $\text{FreeQ}\{a, b, c, d, f\}, x \}$
5665.  $\text{Int}[\text{ArcCot}[(a_) + (b_)*(f_)^(c_ + (d_)*(x_))], x\_Symbol] \rightarrow \text{Simp}[\text{I}/2 \text{Int}[\text{Log}[1 - \text{I}/(a + b*f^(c + d*x))], x], x] - \text{Simp}[\text{I}/2 \text{Int}[\text{Log}[1 + \text{I}/(a + b*f^(c + d*x))], x], x] /;$   $\text{FreeQ}\{a, b, c, d, f\}, x \}$
5666.  $\text{Int}[\text{ArcTan}[(a_) + (b_)*(f_)^(c_ + (d_)*(x_))]*(x_)^(m_), x\_Symbol] \rightarrow \text{Simp}[\text{I}/2 \text{Int}[x^m*\text{Log}[1 - \text{I}*a - \text{I}*b*f^(c + d*x)], x], x] - \text{Simp}[\text{I}/2 \text{Int}[x^m*\text{Log}[1 + \text{I}*a + \text{I}*b*f^(c + d*x)], x], x] /;$   $\text{FreeQ}\{a, b, c, d, f\}, x \} \&\& \text{IntegerQ}[m] \&\& m > 0$
5667.  $\text{Int}[\text{ArcCot}[(a_) + (b_)*(f_)^(c_ + (d_)*(x_))]*(x_)^(m_), x\_Symbol] \rightarrow \text{Simp}[\text{I}/2 \text{Int}[x^m*\text{Log}[1 - \text{I}/(a + b*f^(c + d*x))], x], x] - \text{Simp}[\text{I}/2 \text{Int}[x^m*\text{Log}[1 + \text{I}/(a + b*f^(c + d*x))], x], x] /;$   $\text{FreeQ}\{a, b, c, d, f\}, x \} \&\& \text{IntegerQ}[m] \&\& m > 0$
5668.  $\text{Int}[\text{ArcTan}[(c_)/((a_) + (b_)*(x_)^(n_))]^(m_)*(u_), x\_Symbol] \rightarrow \text{Int}[u*\text{ArcCot}[a/c + b*(x^n/c)]^m, x] /;$   $\text{FreeQ}\{a, b, c, n, m\}, x \}$
5669.  $\text{Int}[\text{ArcCot}[(c_)/((a_) + (b_)*(x_)^(n_))]^(m_)*(u_), x\_Symbol] \rightarrow \text{Int}[u*\text{ArcTan}[a/c + b*(x^n/c)]^m, x] /;$   $\text{FreeQ}\{a, b, c, n, m\}, x \}$

5670.  $\text{Int}[\text{ArcTan}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}], x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot \text{ArcTan}[\frac{c \cdot x}{\sqrt{a + b \cdot x^2}}], x] - \text{Simp}[c \cdot \text{Int}[x/\sqrt{a + b \cdot x^2}], x] /;$  FreeQ[{a, b, c}, x] && EqQ[b + c^2, 0]
5671.  $\text{Int}[\text{ArcCot}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}], x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot \text{ArcCot}[\frac{c \cdot x}{\sqrt{a + b \cdot x^2}}], x] + \text{Simp}[c \cdot \text{Int}[x/\sqrt{a + b \cdot x^2}], x] /;$  FreeQ[{a, b, c}, x] && EqQ[b + c^2, 0]
5672.  $\text{Int}[\text{ArcTan}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]/(x), x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{ArcTan}[c \cdot x/\sqrt{a + b \cdot x^2}] \cdot \text{Log}[x], x] - \text{Simp}[c \cdot \text{Int}[\text{Log}[x]/\sqrt{a + b \cdot x^2}], x] /;$  FreeQ[{a, b, c}, x] && EqQ[b + c^2, 0]
5673.  $\text{Int}[\text{ArcCot}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]/(x), x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{ArcCot}[c \cdot x/\sqrt{a + b \cdot x^2}] \cdot \text{Log}[x], x] + \text{Simp}[c \cdot \text{Int}[\text{Log}[x]/\sqrt{a + b \cdot x^2}], x] /;$  FreeQ[{a, b, c}, x] && EqQ[b + c^2, 0]
5674.  $\text{Int}[\text{ArcTan}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}] \cdot ((d \cdot x)^m), x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot \text{ArcTan}[c \cdot x/\sqrt{a + b \cdot x^2}]/(d \cdot (m+1)), x] - \text{Simp}[c/(d \cdot (m+1)) \cdot \text{Int}[(d \cdot x)^{m+1}/\sqrt{a + b \cdot x^2}], x] /;$  FreeQ[{a, b, c, d, m}, x] && EqQ[b + c^2, 0] && NeQ[m, -1]
5675.  $\text{Int}[\text{ArcCot}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}] \cdot ((d \cdot x)^m), x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot \text{ArcCot}[c \cdot x/\sqrt{a + b \cdot x^2}]/(d \cdot (m+1)), x] + \text{Simp}[c/(d \cdot (m+1)) \cdot \text{Int}[(d \cdot x)^{m+1}/\sqrt{a + b \cdot x^2}], x] /;$  FreeQ[{a, b, c, d, m}, x] && EqQ[b + c^2, 0] && NeQ[m, -1]
5676.  $\text{Int}[1/(\text{ArcTan}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]) \cdot \sqrt{a + b \cdot x^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(1/c) \cdot \text{Log}[\text{ArcTan}[c \cdot x/\sqrt{a + b \cdot x^2}]]], x] /;$  FreeQ[{a, b, c}, x] && EqQ[b + c^2, 0]
5677.  $\text{Int}[1/(\text{ArcCot}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]) \cdot \sqrt{a + b \cdot x^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c^{-1}) \cdot \text{Log}[\text{ArcCot}[c \cdot x/\sqrt{a + b \cdot x^2}]]], x] /;$  FreeQ[{a, b, c}, x] && EqQ[b + c^2, 0]
5678.  $\text{Int}[\text{ArcTan}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]^{(m)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{ArcTan}[c \cdot x/\sqrt{a + b \cdot x^2}]^{(m+1)}, x] /;$

- $$\frac{1}{c(m+1)}, x] /; \text{FreeQ}\{a, b, c, m\}, x\} \&\& \text{EqQ}[b + c^2, 0] \&\& \text{NeQ}[m, -1]$$
5679.  $\text{Int}[\text{ArcCot}[\frac{(c_*)(x_*)}{\sqrt{(a_*) + (b_*)(x_*)^2}}]^{(m_*)}/\sqrt{(a_*) + (b_*)(x_*)^2}], x\_Symbol] \rightarrow \text{Simp}[-\text{ArcCot}[c*(x/\sqrt{a + b*x^2})]^{(m + 1)}/(c*(m + 1)), x] /; \text{FreeQ}\{a, b, c, m\}, x\} \&\& \text{EqQ}[b + c^2, 0] \&\& \text{NeQ}[m, -1]$
5680.  $\text{Int}[\text{ArcTan}[\frac{(c_*)(x_*)}{\sqrt{(a_*) + (b_*)(x_*)^2}}]^{(m_*)}/\sqrt{(d_*) + (e_*)(x_*)^2}], x\_Symbol] \rightarrow \text{Simp}[\frac{\sqrt{a + b*x^2}}{\sqrt{d + e*x^2}} \text{Int}[\text{ArcTan}[c*(x/\sqrt{a + b*x^2})]^m/\sqrt{a + b*x^2}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x\} \&\& \text{EqQ}[b + c^2, 0] \&\& \text{EqQ}[b*d - a*e, 0]$
5681.  $\text{Int}[\text{ArcCot}[\frac{(c_*)(x_*)}{\sqrt{(a_*) + (b_*)(x_*)^2}}]^{(m_*)}/\sqrt{(d_*) + (e_*)(x_*)^2}], x\_Symbol] \rightarrow \text{Simp}[\frac{\sqrt{a + b*x^2}}{\sqrt{d + e*x^2}} \text{Int}[\text{ArcCot}[c*(x/\sqrt{a + b*x^2})]^m/\sqrt{a + b*x^2}, x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x\} \&\& \text{EqQ}[b + c^2, 0] \&\& \text{EqQ}[b*d - a*e, 0]$
5682.  $\text{Int}[\text{ArcTan}[(v_*) + (s_*)\sqrt{w_*}](u_*), x\_Symbol] \rightarrow \text{Simp}[\frac{\pi*(s/4)}{\text{Int}[u, x], x}] + \text{Simp}[1/2 \text{Int}[u*\text{ArcTan}[v], x], x] /; \text{EqQ}[s^2, 1] \&\& \text{EqQ}[w, v^2 + 1]$
5683.  $\text{Int}[\text{ArcCot}[(v_*) + (s_*)\sqrt{w_*}](u_*), x\_Symbol] \rightarrow \text{Simp}[\frac{\pi*(s/4)}{\text{Int}[u, x], x}] - \text{Simp}[1/2 \text{Int}[u*\text{ArcTan}[v], x], x] /; \text{EqQ}[s^2, 1] \&\& \text{EqQ}[w, v^2 + 1]$
5684.  $\text{Int}[(u_*)(v_*)^{(n_*)}, x\_Symbol] \rightarrow \text{With}\{tmp = \text{InverseFunctionOfLinear}[u, x]\}, \text{Simp}[\frac{(-\text{Discriminant}[v, x]/(4*\text{Coefficient}[v, x, 2]))^n/\text{Coefficient}[tmp[[1]], x, 1]}{\text{Subst}[\text{Int}[\text{SimplifyIntegrand}[\text{SubstForInverseFunction}[u, tmp, x]*\text{Sec}[x]^{(2*(n + 1))}, x], x], x, tmp], x]} /; \text{!FalseQ}[tmp] \&\& \text{EqQ}[\text{Head}[tmp], \text{ArcTan}] \&\& \text{EqQ}[\text{Discriminant}[v, x]*tmp[[1]]^2 + D[v, x]^2, 0] /; \text{QuadraticQ}[v, x] \&\& \text{ILtQ}[n, 0] \&\& \text{NegQ}[\text{Discriminant}[v, x]] \&\& \text{MatchQ}[u, (r_*)(f_)^{(w_*)} /; \text{FreeQ}[f, x]$
5685.  $\text{Int}[(u_*)(v_*)^{(n_*)}, x\_Symbol] \rightarrow \text{With}\{tmp = \text{InverseFunctionOfLinear}[u, x]\}, \text{Simp}[\frac{(-\text{Discriminant}[v, x]/(4*\text{Coefficient}[v, x, 2]))^n/\text{Coefficient}[tmp[[1]], x, 1]}{\text{Subst}[\text{Int}[\text{SimplifyIntegrand}[\text{SubstForInverseFunction}[u, tmp, x]*\text{Sec}[x]^{(2*(n + 1))}, x], x], x, tmp], x]} /; \text{!FalseQ}[tmp] \&\& \text{EqQ}[\text{Head}[tmp], \text{ArcTan}] \&\& \text{EqQ}[\text{Discriminant}[v, x]*tmp[[1]]^2 + D[v, x]^2, 0] /; \text{QuadraticQ}[v, x] \&\& \text{ILtQ}[n, 0] \&\& \text{NegQ}[\text{Discriminant}[v, x]] \&\& \text{MatchQ}[u, (r_*)(f_)^{(w_*)} /; \text{FreeQ}[f, x]$

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cient[tmp[[1]], x, 1])*Subst[Int[SimplifyIntegrand[SubstForInverseFunc
tion[u, tmp, x]*Csc[x]^(2*(n + 1)), x], x], x, tmp], x] /; !FalseQ[tm
p] && EqQ[Head[tmp], ArcCot] && EqQ[Discriminant[v, x]*tmp[[1]]^2 + D[
v, x]^2, 0]] /; QuadraticQ[v, x] && ILtQ[n, 0] && NegQ[Discriminant[v,
x]] && MatchQ[u, (r_.)*(f_)^(w_)] /; FreeQ[f, x]

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5686. $\text{Int}[\text{ArcTan}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]], x_Symbol] \rightarrow \text{Simp}[x * \text{ArcTan}[c + d*\text{Tan}[a + b*x]], x] - \text{Simp}[I*b \int \frac{x}{(c + I*d + c*E^{(2*I*a + 2*I*b*x)})} dx], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[(c + I*d)^2, -1]$
5687. $\text{Int}[\text{ArcCot}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]], x_Symbol] \rightarrow \text{Simp}[x * \text{ArcCot}[c + d*\text{Tan}[a + b*x]], x] + \text{Simp}[I*b \int \frac{x}{(c + I*d + c*E^{(2*I*a + 2*I*b*x)})} dx], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[(c + I*d)^2, -1]$
5688. $\text{Int}[\text{ArcTan}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[x * \text{ArcTan}[c + d*\text{Cot}[a + b*x]], x] - \text{Simp}[I*b \int \frac{x}{(c - I*d - c*E^{(2*I*a + 2*I*b*x)})} dx], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[(c - I*d)^2, -1]$
5689. $\text{Int}[\text{ArcCot}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[x * \text{ArcCot}[c + d*\text{Cot}[a + b*x]], x] + \text{Simp}[I*b \int \frac{x}{(c - I*d - c*E^{(2*I*a + 2*I*b*x)})} dx], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[(c - I*d)^2, -1]$
5690. $\text{Int}[\text{ArcTan}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]], x_Symbol] \rightarrow \text{Simp}[x * \text{ArcTan}[c + d*\text{Tan}[a + b*x]], x] + (\text{Simp}[b*(1 - I*c - d) \int \frac{x*(E^{(2*I*a + 2*I*b*x)})}{(1 - I*c + d + (1 - I*c - d)*E^{(2*I*a + 2*I*b*x)})} dx], x] - \text{Simp}[b*(1 + I*c + d) \int \frac{x*(E^{(2*I*a + 2*I*b*x)})}{(1 + I*c - d + (1 + I*c + d)*E^{(2*I*a + 2*I*b*x)})} dx], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[(c + I*d)^2, -1]$
5691. $\text{Int}[\text{ArcCot}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]], x_Symbol] \rightarrow \text{Simp}[x * \text{ArcCot}[c + d*\text{Tan}[a + b*x]], x] + (-\text{Simp}[b*(1 - I*c - d) \int \frac{x*(E^{(2*I*a + 2*I*b*x)})}{(1 - I*c + d + (1 - I*c - d)*E^{(2*I*a + 2*I*b*x)})} dx], x] + \text{Simp}[b*(1 + I*c + d) \int \frac{x*(E^{(2*I*a + 2*I*b*x)})}{(1 + I*c - d + (1 + I*c + d)*E^{(2*I*a + 2*I*b*x)})} dx], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[(c + I*d)^2, -1]$

- $$+ (1 + I*c + d)*E^{(2*I*a + 2*I*b*x)}), x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[(c + I*d)^2, -1]$$
5692. $\text{Int}[\text{ArcTan}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[x * \text{ArcTan}[c + d*\text{Cot}[a + b*x]], x] + (\text{Simp}[b*(1 + I*c - d) \ \text{Int}[x*(E^{(2*I*a + 2*I*b*x)})/(1 + I*c + d - (1 + I*c - d)*E^{(2*I*a + 2*I*b*x)})], x], x] - \text{Simp}[b*(1 - I*c + d) \ \text{Int}[x*(E^{(2*I*a + 2*I*b*x)})/(1 - I*c - d - (1 - I*c + d)*E^{(2*I*a + 2*I*b*x)})], x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[(c + I*d)^2, -1]$
5693. $\text{Int}[\text{ArcCot}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[x * \text{ArcCot}[c + d*\text{Cot}[a + b*x]], x] + (-\text{Simp}[b*(1 + I*c - d) \ \text{Int}[x*(E^{(2*I*a + 2*I*b*x)})/(1 + I*c + d - (1 + I*c - d)*E^{(2*I*a + 2*I*b*x)})], x], x] + \text{Simp}[b*(1 - I*c + d) \ \text{Int}[x*(E^{(2*I*a + 2*I*b*x)})/(1 - I*c - d - (1 - I*c + d)*E^{(2*I*a + 2*I*b*x)})], x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{NeQ}[(c - I*d)^2, -1]$
5694. $\text{Int}[\text{ArcTan}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]*(e_.) + (f_.)*(x_.))^m], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{m+1}*(\text{ArcTan}[c + d*\text{Tan}[a + b*x]]/(f*(m+1))), x] - \text{Simp}[I*(b/(f*(m+1))) \ \text{Int}[(e + f*x)^{m+1}/(c + I*d + c*E^{(2*I*a + 2*I*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{EqQ}[(c + I*d)^2, -1]$
5695. $\text{Int}[\text{ArcCot}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]*(e_.) + (f_.)*(x_.))^m], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{m+1}*(\text{ArcCot}[c + d*\text{Tan}[a + b*x]]/(f*(m+1))), x] + \text{Simp}[I*(b/(f*(m+1))) \ \text{Int}[(e + f*x)^{m+1}/(c + I*d + c*E^{(2*I*a + 2*I*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{EqQ}[(c + I*d)^2, -1]$
5696. $\text{Int}[\text{ArcTan}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)]*(e_.) + (f_.)*(x_.))^m], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{m+1}*(\text{ArcTan}[c + d*\text{Cot}[a + b*x]]/(f*(m+1))), x] - \text{Simp}[I*(b/(f*(m+1))) \ \text{Int}[(e + f*x)^{m+1}/(c - I*d - c*E^{(2*I*a + 2*I*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{EqQ}[(c - I*d)^2, -1]$
5697. $\text{Int}[\text{ArcCot}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)]*(e_.) + (f_.)*(x_.))^m], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{m+1}*(\text{ArcCot}[c + d*\text{Cot}[a + b*x]]$

- $$\int \frac{1}{f(m+1)} dx + \text{Simp}[I*(b/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}/(c - I*d - c*E^{(2*I*a + 2*I*b*x)}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x$$

$$\&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[(c - I*d)^2, -1]$$
5698.
$$\text{Int}[\text{ArcTan}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]]*((e_.) + (f_.)*(x_.))^{(m_.)}, x_Symbol] :> \text{Simp}[(e+f*x)^{(m+1)}*(\text{ArcTan}[c+d*\text{Tan}[a+b*x]]/(f*(m+1))), x] + (\text{Simp}[b*((1-I*c-d)/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}*(E^{(2*I*a + 2*I*b*x)})/(1-I*c+d+(1-I*c-d)*E^{(2*I*a + 2*I*b*x)}), x], x] - \text{Simp}[b*((1+I*c+d)/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}*(E^{(2*I*a + 2*I*b*x)})/(1+I*c-d+(1+I*c+d)*E^{(2*I*a + 2*I*b*x)}), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c+I*d)^2, -1]$$
5699.
$$\text{Int}[\text{ArcCot}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]]*((e_.) + (f_.)*(x_.))^{(m_.)}, x_Symbol] :> \text{Simp}[(e+f*x)^{(m+1)}*(\text{ArcCot}[c+d*\text{Tan}[a+b*x]]/(f*(m+1))), x] + (-\text{Simp}[b*((1-I*c-d)/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}*(E^{(2*I*a + 2*I*b*x)})/(1-I*c+d+(1-I*c-d)*E^{(2*I*a + 2*I*b*x)}), x], x] + \text{Simp}[b*((1+I*c+d)/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}*(E^{(2*I*a + 2*I*b*x)})/(1+I*c-d+(1+I*c+d)*E^{(2*I*a + 2*I*b*x)}), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c+I*d)^2, -1]$$
5700.
$$\text{Int}[\text{ArcTan}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)]*((e_.) + (f_.)*(x_.))^{(m_.)}, x_Symbol] :> \text{Simp}[(e+f*x)^{(m+1)}*(\text{ArcTan}[c+d*\text{Cot}[a+b*x]]/(f*(m+1))), x] + (\text{Simp}[b*((1+I*c-d)/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}*(E^{(2*I*a + 2*I*b*x)})/(1+I*c+d-(1+I*c-d)*E^{(2*I*a + 2*I*b*x)}), x], x] - \text{Simp}[b*((1-I*c+d)/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}*(E^{(2*I*a + 2*I*b*x)})/(1-I*c-d-(1-I*c+d)*E^{(2*I*a + 2*I*b*x)}), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c-I*d)^2, -1]$$
5701.
$$\text{Int}[\text{ArcCot}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)]*((e_.) + (f_.)*(x_.))^{(m_.)}, x_Symbol] :> \text{Simp}[(e+f*x)^{(m+1)}*(\text{ArcCot}[c+d*\text{Cot}[a+b*x]]/(f*(m+1))), x] + (-\text{Simp}[b*((1+I*c-d)/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}*(E^{(2*I*a + 2*I*b*x)})/(1+I*c+d-(1+I*c-d)*E^{(2*I*a + 2*I*b*x)}), x], x] + \text{Simp}[b*((1-I*c+d)/(f*(m+1))) \quad \text{Int}[(e+f*x)^{(m+1)}*(E^{(2*I*a + 2*I*b*x)})/(1-I*c-d-(1-I*c+d)*E^{(2*I*a + 2*I*b*x)}), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c-I*d)^2, -1]$$

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a + 2*I*b*x))), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0]
&& NeQ[(c - I*d)^2, -1]

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5702.  $\text{Int}[\text{ArcTan}[\text{Tanh}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcTan}[\text{Tanh}[a + b \cdot x]], x] - \text{Simp}[b \text{ Int}[x \cdot \text{Sech}[2 \cdot a + 2 \cdot b \cdot x], x], x] /; \text{FreeQ}\{a, b\}, x]$
5703.  $\text{Int}[\text{ArcCot}[\text{Tanh}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcCot}[\text{Tanh}[a + b \cdot x]], x] + \text{Simp}[b \text{ Int}[x \cdot \text{Sech}[2 \cdot a + 2 \cdot b \cdot x], x], x] /; \text{FreeQ}\{a, b\}, x]$
5704.  $\text{Int}[\text{ArcTan}[\text{Coth}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcTan}[\text{Coth}[a + b \cdot x]], x] + \text{Simp}[b \text{ Int}[x \cdot \text{Sech}[2 \cdot a + 2 \cdot b \cdot x], x], x] /; \text{FreeQ}\{a, b\}, x]$
5705.  $\text{Int}[\text{ArcCot}[\text{Coth}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcCot}[\text{Coth}[a + b \cdot x]], x] - \text{Simp}[b \text{ Int}[x \cdot \text{Sech}[2 \cdot a + 2 \cdot b \cdot x], x], x] /; \text{FreeQ}\{a, b\}, x]$
5706.  $\text{Int}[\text{ArcTan}[\text{Tanh}[(a_.) + (b_.)(x_)] \cdot ((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f \cdot x)^{(m + 1)} \cdot (\text{ArcTan}[\text{Tanh}[a + b \cdot x]] / (f \cdot (m + 1))), x] - \text{Simp}[b / (f \cdot (m + 1)) \text{ Int}[(e + f \cdot x)^{(m + 1)} \cdot \text{Sech}[2 \cdot a + 2 \cdot b \cdot x], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
5707.  $\text{Int}[\text{ArcCot}[\text{Tanh}[(a_.) + (b_.)(x_)] \cdot ((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f \cdot x)^{(m + 1)} \cdot (\text{ArcCot}[\text{Tanh}[a + b \cdot x]] / (f \cdot (m + 1))), x] + \text{Simp}[b / (f \cdot (m + 1)) \text{ Int}[(e + f \cdot x)^{(m + 1)} \cdot \text{Sech}[2 \cdot a + 2 \cdot b \cdot x], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
5708.  $\text{Int}[\text{ArcTan}[\text{Coth}[(a_.) + (b_.)(x_)] \cdot ((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f \cdot x)^{(m + 1)} \cdot (\text{ArcTan}[\text{Coth}[a + b \cdot x]] / (f \cdot (m + 1))), x] + \text{Simp}[b / (f \cdot (m + 1)) \text{ Int}[(e + f \cdot x)^{(m + 1)} \cdot \text{Sech}[2 \cdot a + 2 \cdot b \cdot x], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
5709.  $\text{Int}[\text{ArcCot}[\text{Coth}[(a_.) + (b_.)(x_)] \cdot ((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f \cdot x)^{(m + 1)} \cdot (\text{ArcCot}[\text{Coth}[a + b \cdot x]] / (f \cdot (m + 1))), x]$

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- Simp[b/(f*(m + 1)) Int[(e + f*x)^(m + 1)*Sech[2*a + 2*b*x], x], x
] /; FreeQ[{a, b, e, f}, x] && IGtQ[m, 0]

5710. Int[ArcTan[(c_.) + (d_.)*Tanh[(a_.) + (b_.)*(x_)]], x_Symbol] := Simp[
x*ArcTan[c + d*Tanh[a + b*x]], x] - Simp[b Int[x/(c - d + c*E^(2*a +
2*b*x)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[(c - d)^2, -1]

5711. Int[ArcCot[(c_.) + (d_.)*Tanh[(a_.) + (b_.)*(x_)]], x_Symbol] := Simp[
x*ArcCot[c + d*Tanh[a + b*x]], x] + Simp[b Int[x/(c - d + c*E^(2*a +
2*b*x)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[(c - d)^2, -1]

5712. Int[ArcTan[(c_.) + Coth[(a_.) + (b_.)*(x_)]*(d_.)], x_Symbol] := Simp[
x*ArcTan[c + d*Coth[a + b*x]], x] - Simp[b Int[x/(c - d - c*E^(2*a +
2*b*x)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[(c - d)^2, -1]

5713. Int[ArcCot[(c_.) + Coth[(a_.) + (b_.)*(x_)]*(d_.)], x_Symbol] := Simp[
x*ArcCot[c + d*Coth[a + b*x]], x] + Simp[b Int[x/(c - d - c*E^(2*a +
2*b*x)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[(c - d)^2, -1]

5714. Int[ArcTan[(c_.) + (d_.)*Tanh[(a_.) + (b_.)*(x_)]], x_Symbol] := Simp[
x*ArcTan[c + d*Tanh[a + b*x]], x] + (Simp[I*b*(I - c - d) Int[x*(E^(
2*a + 2*b*x)/(I - c + d + (I - c - d)*E^(2*a + 2*b*x))), x], x] - Simp
[I*b*(I + c + d) Int[x*(E^(2*a + 2*b*x)/(I + c - d + (I + c + d)*E^(
2*a + 2*b*x))), x], x]) /; FreeQ[{a, b, c, d}, x] && NeQ[(c - d)^2, -1
]

5715. Int[ArcCot[(c_.) + (d_.)*Tanh[(a_.) + (b_.)*(x_)]], x_Symbol] := Simp[
x*ArcCot[c + d*Tanh[a + b*x]], x] + (-Simp[I*b*(I - c - d) Int[x*(E^(
2*a + 2*b*x)/(I - c + d + (I - c - d)*E^(2*a + 2*b*x))), x], x] + Sim
p[I*b*(I + c + d) Int[x*(E^(2*a + 2*b*x)/(I + c - d + (I + c + d)*E^(
2*a + 2*b*x))), x], x]) /; FreeQ[{a, b, c, d}, x] && NeQ[(c - d)^2, -
1]

5716. Int[ArcTan[(c_.) + Coth[(a_.) + (b_.)*(x_)]*(d_.)], x_Symbol] := Simp[
x*ArcTan[c + d*Coth[a + b*x]], x] + (-Simp[I*b*(I - c - d) Int[x*(E^(
2*a + 2*b*x)/(I - c + d - (I - c - d)*E^(2*a + 2*b*x))), x], x] + Sim

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- $$p[I*b*(I + c + d) \text{ Int}[x*(E^{(2*a + 2*b*x)})/(I + c - d - (I + c + d)*E^{(2*a + 2*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[(c - d)^2, -1]$$
5717. $\text{Int}[\text{ArcCot}[(c_.) + \text{Coth}[(a_.) + (b_.)*(x_)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[x*\text{ArcCot}[c + d*\text{Coth}[a + b*x]], x] + (\text{Simp}[I*b*(I - c - d) \text{ Int}[x*(E^{(2*a + 2*b*x)})/(I - c + d - (I - c - d)*E^{(2*a + 2*b*x)})], x], x] - \text{Simp}[I*b*(I + c + d) \text{ Int}[x*(E^{(2*a + 2*b*x)})/(I + c - d - (I + c + d)*E^{(2*a + 2*b*x)})], x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[(c - d)^2, -1]$
5718. $\text{Int}[\text{ArcTan}[(c_.) + (d_.)*\text{Tanh}[(a_.) + (b_.)*(x_)]*(e_.) + (f_.)*(x_)]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcTan}[c + d*\text{Tanh}[a + b*x]]/(f*(m + 1))), x] - \text{Simp}[b/(f*(m + 1)) \text{ Int}[(e + f*x)^{(m + 1)}/(c - d + c*E^{(2*a + 2*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[(c - d)^2, -1]$
5719. $\text{Int}[\text{ArcCot}[(c_.) + (d_.)*\text{Tanh}[(a_.) + (b_.)*(x_)]*(e_.) + (f_.)*(x_)]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcCot}[c + d*\text{Tanh}[a + b*x]]/(f*(m + 1))), x] + \text{Simp}[b/(f*(m + 1)) \text{ Int}[(e + f*x)^{(m + 1)}/(c - d + c*E^{(2*a + 2*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[(c - d)^2, -1]$
5720. $\text{Int}[\text{ArcTan}[(c_.) + \text{Coth}[(a_.) + (b_.)*(x_)]*(d_.)*(e_.) + (f_.)*(x_)]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcTan}[c + d*\text{Coth}[a + b*x]]/(f*(m + 1))), x] - \text{Simp}[b/(f*(m + 1)) \text{ Int}[(e + f*x)^{(m + 1)}/(c - d - c*E^{(2*a + 2*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[(c - d)^2, -1]$
5721. $\text{Int}[\text{ArcCot}[(c_.) + \text{Coth}[(a_.) + (b_.)*(x_)]*(d_.)*(e_.) + (f_.)*(x_)]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcCot}[c + d*\text{Coth}[a + b*x]]/(f*(m + 1))), x] + \text{Simp}[b/(f*(m + 1)) \text{ Int}[(e + f*x)^{(m + 1)}/(c - d - c*E^{(2*a + 2*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[(c - d)^2, -1]$
5722. $\text{Int}[\text{ArcTan}[(c_.) + (d_.)*\text{Tanh}[(a_.) + (b_.)*(x_)]*(e_.) + (f_.)*(x_)]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcTan}[c + d*\text{Tanh}[a + b*x]]/(f*(m + 1))), x] - \text{Simp}[b/(f*(m + 1)) \text{ Int}[(e + f*x)^{(m + 1)}/(c - d + c*E^{(2*a + 2*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[(c - d)^2, -1]$

- $$\begin{aligned} & x]]/(f*(m + 1))), x] + (\text{Simp}[I*b*((I - c - d)/(f*(m + 1))) \text{Int}[(e + \\ & f*x)^{(m + 1)}*(E^{(2*a + 2*b*x)})/(I - c + d + (I - c - d)*E^{(2*a + 2*b*x)} \\ &)], x] - \text{Simp}[I*b*((I + c + d)/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)} \\ &)*(E^{(2*a + 2*b*x)})/(I + c - d + (I + c + d)*E^{(2*a + 2*b*x)}), x], x]) \\ & /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c - d)^2, -1] \end{aligned}$$
5723.
$$\begin{aligned} & \text{Int}[\text{ArcCot}[(c_.) + (d_.)*\text{Tanh}[(a_.) + (b_.)*(x_)]]*(e_.) + (f_.)*(x_) \\ &)^{(m_.)}, x_Symbol] :> \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcCot}[c + d*\text{Tanh}[a + b* \\ & x]]/(f*(m + 1))), x] + (-\text{Simp}[I*b*((I - c - d)/(f*(m + 1))) \text{Int}[(e + \\ & f*x)^{(m + 1)}*(E^{(2*a + 2*b*x)})/(I - c + d + (I - c - d)*E^{(2*a + 2*b*x)} \\ &)], x] + \text{Simp}[I*b*((I + c + d)/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)} \\ &)*(E^{(2*a + 2*b*x)})/(I + c - d + (I + c + d)*E^{(2*a + 2*b*x)}), x], x] \\ &) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c - d)^2, -1] \end{aligned}$$
5724.
$$\begin{aligned} & \text{Int}[\text{ArcTan}[(c_.) + \text{Coth}[(a_.) + (b_.)*(x_)]*(d_.)]*(e_.) + (f_.)*(x_) \\ &)^{(m_.)}, x_Symbol] :> \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcTan}[c + d*\text{Coth}[a + b* \\ & x]]/(f*(m + 1))), x] + (-\text{Simp}[I*b*((I - c - d)/(f*(m + 1))) \text{Int}[(e + \\ & f*x)^{(m + 1)}*(E^{(2*a + 2*b*x)})/(I - c + d - (I - c - d)*E^{(2*a + 2*b*x)} \\ &)], x] + \text{Simp}[I*b*((I + c + d)/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)} \\ &)*(E^{(2*a + 2*b*x)})/(I + c - d - (I + c + d)*E^{(2*a + 2*b*x)}), x], x] \\ &) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c - d)^2, -1] \end{aligned}$$
5725.
$$\begin{aligned} & \text{Int}[\text{ArcCot}[(c_.) + \text{Coth}[(a_.) + (b_.)*(x_)]*(d_.)]*(e_.) + (f_.)*(x_) \\ &)^{(m_.)}, x_Symbol] :> \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcCot}[c + d*\text{Coth}[a + b* \\ & x]]/(f*(m + 1))), x] + (\text{Simp}[I*b*((I - c - d)/(f*(m + 1))) \text{Int}[(e + \\ & f*x)^{(m + 1)}*(E^{(2*a + 2*b*x)})/(I - c + d - (I - c - d)*E^{(2*a + 2*b*x)} \\ &)], x] - \text{Simp}[I*b*((I + c + d)/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)} \\ &)*(E^{(2*a + 2*b*x)})/(I + c - d - (I + c + d)*E^{(2*a + 2*b*x)}), x], x]) \\ & /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c - d)^2, -1] \end{aligned}$$
5726.
$$\text{Int}[\text{ArcTan}[u_], x_Symbol] :> \text{Simp}[x*\text{ArcTan}[u], x] - \text{Int}[\text{SimplifyIntegr} \\ \text{and}[x*(D[u, x]/(1 + u^2)), x], x] /; \text{InverseFunctionFreeQ}[u, x]$$
5727.
$$\text{Int}[\text{ArcCot}[u_], x_Symbol] :> \text{Simp}[x*\text{ArcCot}[u], x] + \text{Int}[\text{SimplifyIntegr} \\ \text{and}[x*(D[u, x]/(1 + u^2)), x], x] /; \text{InverseFunctionFreeQ}[u, x]$$

5728. `Int[((a_.) + ArcTan[u_]*(b_.))*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :`
`> Simp[(c + d*x)^(m + 1)*((a + b*ArcTan[u])/(d*(m + 1))), x] - Simp[b/`
`(d*(m + 1)) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D[u, x]/(1 + u^`
`2)), x], x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ[m, -1] && InverseF`
`unctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m + 1), u, x] && FalseQ`
`[PowerVariableExpn[u, m + 1, x]]`
5729. `Int[((a_.) + ArcCot[u_]*(b_.))*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :`
`> Simp[(c + d*x)^(m + 1)*((a + b*ArcCot[u])/(d*(m + 1))), x] + Simp[b/`
`(d*(m + 1)) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D[u, x]/(1 + u^`
`2)), x], x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ[m, -1] && InverseF`
`unctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m + 1), u, x] && FalseQ`
`[PowerVariableExpn[u, m + 1, x]]`
5730. `Int[((a_.) + ArcTan[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v,`
`x]}, Simp[(a + b*ArcTan[u]) w, x] - Simp[b Int[SimplifyIntegrand[`
`w*(D[u, x]/(1 + u^2)), x], x], x] /; InverseFunctionFreeQ[w, x] /; Fr`
`eeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_.) + (`
`d_.)*x)^(m_.) /; FreeQ[{c, d, m}, x] && FalseQ[FunctionOfLinear[v*(a`
`+ b*ArcTan[u]), x]]`
5731. `Int[((a_.) + ArcCot[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v,`
`x]}, Simp[(a + b*ArcCot[u])*w, x] + Simp[b Int[SimplifyIntegrand[w*`
`(D[u, x]/(1 + u^2)), x], x], x] /; InverseFunctionFreeQ[w, x] /; Free`
`Q[{a, b}, x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_.) + (d_`
`.) * x)^(m_.) /; FreeQ[{c, d, m}, x] && FalseQ[FunctionOfLinear[v*(a +`
`b*ArcCot[u]), x]]`
5732. `Int[(ArcTan[v_]*Log[w_])/((a_.) + (b_.)*(x_)), x_Symbol] := Simp[I/2`
`Int[Log[1 - I*v]*(Log[w]/(a + b*x)), x], x] - Simp[I/2 Int[Log[1 +`
`I*v]*(Log[w]/(a + b*x)), x], x] /; FreeQ[{a, b}, x] && LinearQ[v, x] &`
`& LinearQ[w, x] && EqQ[Simplify[D[v/(a + b*x), x]], 0] && EqQ[Simplify`
`[D[w/(a + b*x), x]], 0]`
5733. `Int[ArcTan[v_]*Log[w_], x_Symbol] := Simp[x*ArcTan[v]*Log[w], x] + (-I`
`nt[SimplifyIntegrand[x*Log[w]*(D[v, x]/(1 + v^2)), x], x] - Int[Simpli`
`fyIntegrand[x*ArcTan[v]*(D[w, x]/w), x], x]) /; InverseFunctionFreeQ[v`

- , x] && InverseFunctionFreeQ[w, x]
5734. $\text{Int}[\text{ArcCot}[v_]\text{Log}[w_], x_Symbol] \rightarrow \text{Simp}[x*\text{ArcCot}[v]*\text{Log}[w], x] + (\text{Int}[\text{SimplifyIntegrand}[x*\text{Log}[w]*(D[v, x]/(1 + v^2))], x], x] - \text{Int}[\text{SimplifyIntegrand}[x*\text{ArcCot}[v]*(D[w, x]/w)], x], x]) /; \text{InverseFunctionFreeQ}[v, x] \&\& \text{InverseFunctionFreeQ}[w, x]$
5735. $\text{Int}[\text{ArcTan}[v_]\text{Log}[w_](u_), x_Symbol] \rightarrow \text{With}[\{z = \text{IntHide}[u, x]\}, \text{Simp}[\text{ArcTan}[v]*\text{Log}[w] z, x] + (-\text{Int}[\text{SimplifyIntegrand}[z*\text{Log}[w]*(D[v, x]/(1 + v^2))], x], x] - \text{Int}[\text{SimplifyIntegrand}[z*\text{ArcTan}[v]*(D[w, x]/w)], x], x]) /; \text{InverseFunctionFreeQ}[z, x] /; \text{InverseFunctionFreeQ}[v, x] \&\& \text{InverseFunctionFreeQ}[w, x]$
5736. $\text{Int}[\text{ArcCot}[v_]\text{Log}[w_](u_), x_Symbol] \rightarrow \text{With}[\{z = \text{IntHide}[u, x]\}, \text{Simp}[\text{ArcCot}[v]*\text{Log}[w] z, x] + (\text{Int}[\text{SimplifyIntegrand}[z*\text{Log}[w]*(D[v, x]/(1 + v^2))], x], x] - \text{Int}[\text{SimplifyIntegrand}[z*\text{ArcCot}[v]*(D[w, x]/w)], x], x]) /; \text{InverseFunctionFreeQ}[z, x] /; \text{InverseFunctionFreeQ}[v, x] \&\& \text{InverseFunctionFreeQ}[w, x]$
5737. $\text{Int}[\text{ArcSec}[(c_)(x_)], x_Symbol] \rightarrow \text{Simp}[x*\text{ArcSec}[c*x], x] - \text{Simp}[1/c \text{Int}[1/(x*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x] /; \text{FreeQ}[c, x]$
5738. $\text{Int}[\text{ArcCsc}[(c_)(x_)], x_Symbol] \rightarrow \text{Simp}[x*\text{ArcCsc}[c*x], x] + \text{Simp}[1/c \text{Int}[1/(x*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x] /; \text{FreeQ}[c, x]$
5739. $\text{Int}[(a_ + \text{ArcSec}[(c_)(x_)]*(b_))^n, x_Symbol] \rightarrow \text{Simp}[1/c \text{Subst}[\text{Int}[(a + b*x)^n*\text{Sec}[x]*\text{Tan}[x], x], x, \text{ArcSec}[c*x]], x] /; \text{FreeQ}[\{a, b, c, n\}, x] \&\& \text{IGtQ}[n, 0]$
5740. $\text{Int}[(a_ + \text{ArcCsc}[(c_)(x_)]*(b_))^n, x_Symbol] \rightarrow \text{Simp}[-c^{-1} \text{Subst}[\text{Int}[(a + b*x)^n*\text{Csc}[x]*\text{Cot}[x], x], x, \text{ArcCsc}[c*x]], x] /; \text{FreeQ}[\{a, b, c, n\}, x] \&\& \text{IGtQ}[n, 0]$
5741. $\text{Int}[(a_ + \text{ArcSec}[(c_)(x_)]*(b_))/(x_), x_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b*\text{ArcCos}[x/c])/x, x], x, 1/x] /; \text{FreeQ}[\{a, b, c\}, x]$

5742. $\text{Int}[(a + \text{ArcCsc}[c \cdot x]) \cdot b] / x, x_{\text{Symbol}}] \rightarrow -\text{Subst}[\text{Int}[a + b \cdot \text{ArcSin}[x/c]] / x, x], x, 1/x] /; \text{FreeQ}\{a, b, c\}, x]$
5743. $\text{Int}[(a + \text{ArcSec}[c \cdot x]) \cdot b] \cdot (d \cdot x)^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcSec}[c \cdot x]) / (d \cdot (m+1)), x] - \text{Simp}[b \cdot d / (c \cdot (m+1)) \text{Int}[(d \cdot x)^{m-1} / \text{Sqrt}[1 - 1/(c^2 \cdot x^2)], x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x \ \&\& \ \text{NeQ}[m, -1]$
5744. $\text{Int}[(a + \text{ArcCsc}[c \cdot x]) \cdot b] \cdot (d \cdot x)^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcCsc}[c \cdot x]) / (d \cdot (m+1)), x] + \text{Simp}[b \cdot d / (c \cdot (m+1)) \text{Int}[(d \cdot x)^{m-1} / \text{Sqrt}[1 - 1/(c^2 \cdot x^2)], x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x \ \&\& \ \text{NeQ}[m, -1]$
5745. $\text{Int}[(a + \text{ArcSec}[c \cdot x]) \cdot b]^n \cdot (d \cdot x)^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/c^{m+1} \text{Subst}[\text{Int}[(a + b \cdot x)^n \cdot \text{Sec}[x]^{m+1} \cdot \text{Tan}[x], x], x, \text{ArcSec}[c \cdot x]], x] /; \text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ (\text{GtQ}[n, 0] \ || \ \text{LtQ}[m, -1])]$
5746. $\text{Int}[(a + \text{ArcCsc}[c \cdot x]) \cdot b]^n \cdot (d \cdot x)^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[-(c^{m+1})^{-1} \text{Subst}[\text{Int}[(a + b \cdot x)^n \cdot \text{Csc}[x]^{m+1} \cdot \text{Cot}[x], x], x, \text{ArcCsc}[c \cdot x]], x] /; \text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ (\text{GtQ}[n, 0] \ || \ \text{LtQ}[m, -1])]$
5747. $\text{Int}[(a + \text{ArcSec}[c \cdot x]) \cdot b] / ((d + e \cdot x), x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b \cdot \text{ArcSec}[c \cdot x]) \cdot (\text{Log}[1 + (e - \text{Sqrt}[(-c^2) \cdot d^2 + e^2]) \cdot (E^{(\text{I} \cdot \text{ArcSec}[c \cdot x]) / (c \cdot d)})] / e), x] + (\text{Simp}[(a + b \cdot \text{ArcSec}[c \cdot x]) \cdot (\text{Log}[1 + (e + \text{Sqrt}[(-c^2) \cdot d^2 + e^2]) \cdot (E^{(\text{I} \cdot \text{ArcSec}[c \cdot x]) / (c \cdot d)})] / e), x] - \text{Simp}[(a + b \cdot \text{ArcSec}[c \cdot x]) \cdot (\text{Log}[1 + E^{(2 \cdot \text{I} \cdot \text{ArcSec}[c \cdot x])}] / e), x] - \text{Simp}[b / (c \cdot e) \text{Int}[\text{Log}[1 + (e - \text{Sqrt}[(-c^2) \cdot d^2 + e^2]) \cdot (E^{(\text{I} \cdot \text{ArcSec}[c \cdot x]) / (c \cdot d)})] / (x^2 \cdot \text{Sqrt}[1 - 1/(c^2 \cdot x^2)]), x], x] - \text{Simp}[b / (c \cdot e) \text{Int}[\text{Log}[1 + (e + \text{Sqrt}[(-c^2) \cdot d^2 + e^2]) \cdot (E^{(\text{I} \cdot \text{ArcSec}[c \cdot x]) / (c \cdot d)})] / (x^2 \cdot \text{Sqrt}[1 - 1/(c^2 \cdot x^2)]), x], x] + \text{Simp}[b / (c \cdot e) \text{Int}[\text{Log}[1 + E^{(2 \cdot \text{I} \cdot \text{ArcSec}[c \cdot x])}] / (x^2 \cdot \text{Sqrt}[1 - 1/(c^2 \cdot x^2)]), x], x]) /; \text{FreeQ}\{a, b, c, d, e\}, x]$
5748. $\text{Int}[(a + \text{ArcCsc}[c \cdot x]) \cdot b] / ((d + e \cdot x), x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b \cdot \text{ArcCsc}[c \cdot x]) \cdot (\text{Log}[1 - \text{I} \cdot (e - \text{Sqrt}[(-c^2) \cdot d^2 + e^2]) \cdot (E^{(\text{I} \cdot \text{ArcCsc}[c \cdot x]) / (c \cdot d)})] / e), x] + (\text{Simp}[(a + b \cdot \text{ArcCsc}[c \cdot x]) \cdot (\text{Log}[1 -$

- $$\text{I}*(e + \text{Sqrt}[(-c^2)*d^2 + e^2])*(E^{(\text{I}*\text{ArcCsc}[c*x])/(c*d)})/e, x] - \text{Simp}[(a + b*\text{ArcCsc}[c*x])*(\text{Log}[1 - E^{(2*\text{I}*\text{ArcCsc}[c*x])}] / e), x] + \text{Simp}[b/(c*e) \text{Int}[\text{Log}[1 - \text{I}*(e - \text{Sqrt}[(-c^2)*d^2 + e^2])*(E^{(\text{I}*\text{ArcCsc}[c*x])/(c*d)})]/(x^2*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x] + \text{Simp}[b/(c*e) \text{Int}[\text{Log}[1 - \text{I}*(e + \text{Sqrt}[(-c^2)*d^2 + e^2])*(E^{(\text{I}*\text{ArcCsc}[c*x])/(c*d)})]/(x^2*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x] - \text{Simp}[b/(c*e) \text{Int}[\text{Log}[1 - E^{(2*\text{I}*\text{ArcCsc}[c*x])}] / (x^2*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x]$$
5749.
$$\text{Int}[(a + \text{ArcSec}[(c*x)/(b*d)]*(d + e*x)^m, x_Symbol] :> \text{Simp}[(d + e*x)^{m+1}*(a + b*\text{ArcSec}[c*x]/(e*(m+1))), x] - \text{Simp}[b/(c*e*(m+1)) \text{Int}[(d + e*x)^{m+1}/(x^2*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[m, -1]$$
5750.
$$\text{Int}[(a + \text{ArcCsc}[(c*x)/(b*d)]*(d + e*x)^m, x_Symbol] :> \text{Simp}[(d + e*x)^{m+1}*(a + b*\text{ArcCsc}[c*x]/(e*(m+1))), x] + \text{Simp}[b/(c*e*(m+1)) \text{Int}[(d + e*x)^{m+1}/(x^2*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[m, -1]$$
5751.
$$\text{Int}[(a + \text{ArcSec}[(c*x)/(b*d)]*(d + e*x^2)^p, x_Symbol] :> \text{With}\{u = \text{IntHide}[(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSec}[c*x]) u, x] - \text{Simp}[b*c*(x/\text{Sqrt}[c^2*x^2]) \text{Int}[\text{SimplifyIntegrand}[u/(x*\text{Sqrt}[c^2*x^2 - 1])], x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& (\text{IGtQ}[p, 0] || \text{ILtQ}[p + 1/2, 0])$$
5752.
$$\text{Int}[(a + \text{ArcCsc}[(c*x)/(b*d)]*(d + e*x^2)^p, x_Symbol] :> \text{With}\{u = \text{IntHide}[(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcCsc}[c*x]) u, x] + \text{Simp}[b*c*(x/\text{Sqrt}[c^2*x^2]) \text{Int}[\text{SimplifyIntegrand}[u/(x*\text{Sqrt}[c^2*x^2 - 1])], x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& (\text{IGtQ}[p, 0] || \text{ILtQ}[p + 1/2, 0])$$
5753.
$$\text{Int}[(a + \text{ArcSec}[(c*x)/(b*d)]*(d + e*x^2)^p)^n, x_Symbol] :> -\text{Subst}[\text{Int}[(e + d*x^2)^p*(a + b*\text{ArcCos}[x/c])^n/x^{2*(p+1)}], x], x, 1/x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[p]$$
5754.
$$\text{Int}[(a + \text{ArcCsc}[(c*x)/(b*d)]*(d + e*x^2)^p)^n, x_Symbol] :> -\text{Subst}[\text{Int}[(e + d*x^2)^p*(a + b*\text{ArcSin}[x/c])^n/x^{2*(p+1)}], x], x, 1/x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[p]$$

- $(p + 1))), x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \ \&\& \ \text{IGtQ}[n, 0]$
 $\&\& \ \text{IntegerQ}[p]$
5755. $\text{Int}[(a_.) + \text{ArcSec}[(c_.)(x_)]*(b_.))^n*((d_.) + (e_.)(x_)^2)^p$
 $_, x_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[x^2]/x \ \text{Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcCos}[x/c])^n/x^{2*(p + 1)}), x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e,$
 $n\}, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{IntegerQ}[p + 1/2] \ \&\& \ \text{GtQ}$
 $[e, 0] \ \&\& \ \text{LtQ}[d, 0]$
5756. $\text{Int}[(a_.) + \text{ArcCsc}[(c_.)(x_)]*(b_.))^n*((d_.) + (e_.)(x_)^2)^p$
 $_, x_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[x^2]/x \ \text{Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcSin}[x/c])^n/x^{2*(p + 1)}), x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e,$
 $n\}, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{IntegerQ}[p + 1/2] \ \&\& \ \text{GtQ}$
 $[e, 0] \ \&\& \ \text{LtQ}[d, 0]$
5757. $\text{Int}[(a_.) + \text{ArcSec}[(c_.)(x_)]*(b_.))^n*((d_.) + (e_.)(x_)^2)^p$
 $_, x_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[d + e*x^2]/(x*\text{Sqrt}[e + d/x^2]) \ \text{Subst}[\text{Int}$
 $[(e + d*x^2)^p*((a + b*\text{ArcCos}[x/c])^n/x^{2*(p + 1)}), x], x, 1/x], x]$
 $/; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\&$
 $\text{IntegerQ}[p + 1/2] \ \&\& \ !(\text{GtQ}[e, 0] \ \&\& \ \text{LtQ}[d, 0])$
5758. $\text{Int}[(a_.) + \text{ArcCsc}[(c_.)(x_)]*(b_.))^n*((d_.) + (e_.)(x_)^2)^p$
 $_, x_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[d + e*x^2]/(x*\text{Sqrt}[e + d/x^2]) \ \text{Subst}[\text{Int}$
 $[(e + d*x^2)^p*((a + b*\text{ArcSin}[x/c])^n/x^{2*(p + 1)}), x], x, 1/x], x]$
 $/; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\&$
 $\text{IntegerQ}[p + 1/2] \ \&\& \ !(\text{GtQ}[e, 0] \ \&\& \ \text{LtQ}[d, 0])$
5759. $\text{Int}[(a_.) + \text{ArcSec}[(c_.)(x_)]*(b_.))*(x_)*((d_.) + (e_.)(x_)^2)^p$
 $_, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{p + 1}*((a + b*\text{ArcSec}[c*x])/(2*e*(p$
 $+ 1))), x] - \text{Simp}[b*c*(x/(2*e*(p + 1)*\text{Sqrt}[c^2*x^2])) \ \text{Int}[(d + e*x^$
 $2)^{p + 1}/(x*\text{Sqrt}[c^2*x^2 - 1]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\},$
 $x] \ \&\& \ \text{NeQ}[p, -1]$
5760. $\text{Int}[(a_.) + \text{ArcCsc}[(c_.)(x_)]*(b_.))*(x_)*((d_.) + (e_.)(x_)^2)^p$
 $_, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{p + 1}*((a + b*\text{ArcCsc}[c*x])/(2*e*(p$
 $+ 1))), x] + \text{Simp}[b*c*(x/(2*e*(p + 1)*\text{Sqrt}[c^2*x^2])) \ \text{Int}[(d + e*x^$
 $2)^{p + 1}/(x*\text{Sqrt}[c^2*x^2 - 1]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\},$

x] && NeQ[p, -1]

5761. $\text{Int}[\left((a_{\cdot}) + \text{ArcSec}[c_{\cdot}](x_{\cdot})\right)(b_{\cdot})\left((f_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{u = \text{IntHide}[(f*x)^m*(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSec}[c*x]) u, x] - \text{Simp}[b*c*(x/\text{Sqrt}[c^2*x^2]) \text{Int}[\text{SimplifyIntegrand}[u/(x*\text{Sqrt}[c^2*x^2 - 1]), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, p\}, x] \&\& ((\text{IGtQ}[p, 0] \&\& !(\text{ILtQ}[(m - 1)/2, 0] \&\& \text{GtQ}[m + 2*p + 3, 0])) \|\ (\text{IGtQ}[(m + 1)/2, 0] \&\& !(\text{ILtQ}[p, 0] \&\& \text{GtQ}[m + 2*p + 3, 0])) \|\ (\text{ILtQ}[(m + 2*p + 1)/2, 0] \&\& !\text{ILtQ}[(m - 1)/2, 0]))]$
5762. $\text{Int}[\left((a_{\cdot}) + \text{ArcCsc}[c_{\cdot}](x_{\cdot})\right)(b_{\cdot})\left((f_{\cdot})(x_{\cdot})\right)^{m_{\cdot}}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{With}[\{u = \text{IntHide}[(f*x)^m*(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcCsc}[c*x]) u, x] + \text{Simp}[b*c*(x/\text{Sqrt}[c^2*x^2]) \text{Int}[\text{SimplifyIntegrand}[u/(x*\text{Sqrt}[c^2*x^2 - 1]), x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, p\}, x] \&\& ((\text{IGtQ}[p, 0] \&\& !(\text{ILtQ}[(m - 1)/2, 0] \&\& \text{GtQ}[m + 2*p + 3, 0])) \|\ (\text{IGtQ}[(m + 1)/2, 0] \&\& !(\text{ILtQ}[p, 0] \&\& \text{GtQ}[m + 2*p + 3, 0])) \|\ (\text{ILtQ}[(m + 2*p + 1)/2, 0] \&\& !\text{ILtQ}[(m - 1)/2, 0]))]$
5763. $\text{Int}[\left((a_{\cdot}) + \text{ArcSec}[c_{\cdot}](x_{\cdot})\right)(b_{\cdot})^{n_{\cdot}}(x_{\cdot})^{m_{\cdot}}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow -\text{Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcCos}[x/c])^n/x^{m + 2*(p + 1)})], x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[p]$
5764. $\text{Int}[\left((a_{\cdot}) + \text{ArcCsc}[c_{\cdot}](x_{\cdot})\right)(b_{\cdot})^{n_{\cdot}}(x_{\cdot})^{m_{\cdot}}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow -\text{Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcSin}[x/c])^n/x^{m + 2*(p + 1)})], x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[p]$
5765. $\text{Int}[\left((a_{\cdot}) + \text{ArcSec}[c_{\cdot}](x_{\cdot})\right)(b_{\cdot})^{n_{\cdot}}(x_{\cdot})^{m_{\cdot}}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2\right)^{p_{\cdot}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-\text{Sqrt}[x^2]/x \text{Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcCos}[x/c])^n/x^{m + 2*(p + 1)})], x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[p + 1/2] \&\& \text{GtQ}[e, 0] \&\& \text{LtQ}[d, 0]$

5766. $\text{Int}[(a_.) + \text{ArcCsc}[(c_.)*(x_)]*(b_.)]^{(n_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[x^2]/x \text{ Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcSin}[x/c])^n/x^{(m + 2*(p + 1))}), x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[p + 1/2] \&\& \text{GtQ}[e, 0] \&\& \text{LtQ}[d, 0]$
5767. $\text{Int}[(a_.) + \text{ArcSec}[(c_.)*(x_)]*(b_.)]^{(n_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[d + e*x^2]/(x*\text{Sqrt}[e + d/x^2]) \text{ Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcCos}[x/c])^n/x^{(m + 2*(p + 1))}), x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[p + 1/2] \&\& !(\text{GtQ}[e, 0] \&\& \text{LtQ}[d, 0])$
5768. $\text{Int}[(a_.) + \text{ArcCsc}[(c_.)*(x_)]*(b_.)]^{(n_.)}*(x_)^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[d + e*x^2]/(x*\text{Sqrt}[e + d/x^2]) \text{ Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcSin}[x/c])^n/x^{(m + 2*(p + 1))}), x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[m] \&\& \text{IntegerQ}[p + 1/2] \&\& !(\text{GtQ}[e, 0] \&\& \text{LtQ}[d, 0])$
5769. $\text{Int}[(a_.) + \text{ArcSec}[(c_.)*(x_)]*(b_.)]*(u_.), x_Symbol] \rightarrow \text{With}[\{v = \text{IntHide}[u, x]\}, \text{Simp}[(a + b*\text{ArcSec}[c*x]) v, x] - \text{Simp}[b/c \text{ Int}[\text{SimplifyIntegrand}[v/(x^2*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x], x] /; \text{InverseFunctionFreeQ}[v, x] /; \text{FreeQ}[\{a, b, c\}, x]$
5770. $\text{Int}[(a_.) + \text{ArcCsc}[(c_.)*(x_)]*(b_.)]*(u_.), x_Symbol] \rightarrow \text{With}[\{v = \text{IntHide}[u, x]\}, \text{Simp}[(a + b*\text{ArcCsc}[c*x]) v, x] + \text{Simp}[b/c \text{ Int}[\text{SimplifyIntegrand}[v/(x^2*\text{Sqrt}[1 - 1/(c^2*x^2)])], x], x], x] /; \text{InverseFunctionFreeQ}[v, x] /; \text{FreeQ}[\{a, b, c\}, x]$
5771. $\text{Int}[(a_.) + \text{ArcSec}[(c_.)*(x_)]*(b_.)]^{(n_.)}*(u_.), x_Symbol] \rightarrow \text{Unintegrable}[u*(a + b*\text{ArcSec}[c*x])^n, x] /; \text{FreeQ}[\{a, b, c, n\}, x]$
5772. $\text{Int}[(a_.) + \text{ArcCsc}[(c_.)*(x_)]*(b_.)]^{(n_.)}*(u_.), x_Symbol] \rightarrow \text{Unintegrable}[u*(a + b*\text{ArcCsc}[c*x])^n, x] /; \text{FreeQ}[\{a, b, c, n\}, x]$

5773. $\text{Int}[\text{ArcSec}[(c_) + (d_)*(x_)], x_Symbol] \rightarrow \text{Simp}[(c + d*x)*(\text{ArcSec}[c + d*x]/d), x] - \text{Int}[1/((c + d*x)*\text{Sqrt}[1 - 1/(c + d*x)^2]), x] /; \text{FreeQ}[\{c, d\}, x]$
5774. $\text{Int}[\text{ArcCsc}[(c_) + (d_)*(x_)], x_Symbol] \rightarrow \text{Simp}[(c + d*x)*(\text{ArcCsc}[c + d*x]/d), x] + \text{Int}[1/((c + d*x)*\text{Sqrt}[1 - 1/(c + d*x)^2]), x] /; \text{FreeQ}[\{c, d\}, x]$
5775. $\text{Int}[(a_) + \text{ArcSec}[(c_) + (d_)*(x_)]*(b_)]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b*\text{ArcSec}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
5776. $\text{Int}[(a_) + \text{ArcCsc}[(c_) + (d_)*(x_)]*(b_)]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b*\text{ArcCsc}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
5777. $\text{Int}[(a_) + \text{ArcSec}[(c_) + (d_)*(x_)]*(b_)]^{(p_)}, x_Symbol] \rightarrow \text{Unintegrable}[(a + b*\text{ArcSec}[c + d*x])^p, x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \ \&\& \ !\text{IGtQ}[p, 0]$
5778. $\text{Int}[(a_) + \text{ArcCsc}[(c_) + (d_)*(x_)]*(b_)]^{(p_)}, x_Symbol] \rightarrow \text{Unintegrable}[(a + b*\text{ArcCsc}[c + d*x])^p, x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \ \&\& \ !\text{IGtQ}[p, 0]$
5779. $\text{Int}[(a_) + \text{ArcSec}[(c_) + (d_)*(x_)]*(b_)]^{(p_)}*((e_) + (f_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(f*(x/d))^m*(a + b*\text{ArcSec}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[d*e - c*f, 0] \ \&\& \ \text{IGtQ}[p, 0]$
5780. $\text{Int}[(a_) + \text{ArcCsc}[(c_) + (d_)*(x_)]*(b_)]^{(p_)}*((e_) + (f_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(f*(x/d))^m*(a + b*\text{ArcCsc}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[d*e - c*f, 0] \ \&\& \ \text{IGtQ}[p, 0]$
5781. $\text{Int}[(a_) + \text{ArcSec}[(c_) + (d_)*(x_)]*(b_)]^{(p_)}*((e_) + (f_)*(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/d^{(m+1)} \text{ Subst}[\text{Int}[(a + b*x)^p*\text{Sec}[x]$

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Tan[x](d*e - c*f + f*Sec[x])^m, x], x, ArcSec[c + d*x]], x] /; FreeQ
[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && IntegerQ[m]

5782. Int[((a_) + ArcCsc[(c_) + (d_)*(x_)]*(b_))^(p_)*((e_) + (f_)*(x_
))^m_), x_Symbol] := Simp[-(d^(m + 1))^(-1) Subst[Int[(a + b*x)^p*
Csc[x]*Cot[x]*(d*e - c*f + f*Csc[x])^m, x], x, ArcCsc[c + d*x]], x] /;
FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && IntegerQ[m]

5783. Int[((a_) + ArcSec[(c_) + (d_)*(x_)]*(b_))^(p_)*((e_) + (f_)*(x_
))^m_), x_Symbol] := Simp[1/d Subst[Int[((d*e - c*f)/d + f*(x/d))^
m*(a + b*ArcSec[x])^p, x], x, c + d*x], x] /; FreeQ[{a, b, c, d, e, f,
m}, x] && IGtQ[p, 0]

5784. Int[((a_) + ArcCsc[(c_) + (d_)*(x_)]*(b_))^(p_)*((e_) + (f_)*(x_
))^m_), x_Symbol] := Simp[1/d Subst[Int[((d*e - c*f)/d + f*(x/d))^
m*(a + b*ArcCsc[x])^p, x], x, c + d*x], x] /; FreeQ[{a, b, c, d, e, f,
m}, x] && IGtQ[p, 0]

5785. Int[((a_) + ArcSec[(c_) + (d_)*(x_)]*(b_))^(p_)*((e_) + (f_)*(x_
))^m_), x_Symbol] := Unintegrable[(e + f*x)^m*(a + b*ArcSec[c + d*x])
^p, x] /; FreeQ[{a, b, c, d, e, f, m, p}, x] && !IGtQ[p, 0]

5786. Int[((a_) + ArcCsc[(c_) + (d_)*(x_)]*(b_))^(p_)*((e_) + (f_)*(x_
))^m_), x_Symbol] := Unintegrable[(e + f*x)^m*(a + b*ArcCsc[c + d*x])
^p, x] /; FreeQ[{a, b, c, d, e, f, m, p}, x] && !IGtQ[p, 0]

5787. Int[ArcSec[(c_)/((a_) + (b_)*(x_)^(n_))]^(m_)*(u_), x_Symbol] :=
Int[u*ArcCos[a/c + b*(x^n/c)]^m, x] /; FreeQ[{a, b, c, n, m}, x]

5788. Int[ArcCsc[(c_)/((a_) + (b_)*(x_)^(n_))]^(m_)*(u_), x_Symbol] :=
Int[u*ArcSin[a/c + b*(x^n/c)]^m, x] /; FreeQ[{a, b, c, n, m}, x]

5789. Int[(u_)*(f_)^(ArcSec[(a_) + (b_)*(x_)^(n_)]*(c_)), x_Symbol] :=
Simp[1/b Subst[Int[(u /. x -> -a/b + Sec[x]/b)*f^(c*x^n)*Sec[x]*Tan[
x], x], x, ArcSec[a + b*x]], x] /; FreeQ[{a, b, c, f}, x] && IGtQ[n, 0

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5790. `Int[(u_.)*(f_)^(ArcCsc[(a_.) + (b_.)*(x_)]^(n_.)*(c_.)), x_Symbol] :=  
Simp[-b^(-1) Subst[Int[(u /. x -> -a/b + Csc[x]/b)*f^(c*x^n)*Csc[x]*  
Cot[x], x], x, ArcCsc[a + b*x]], x] /; FreeQ[{a, b, c, f}, x] && IGtQ[  
n, 0]`
5791. `Int[ArcSec[u_], x_Symbol] := Simp[x*ArcSec[u], x] - Simp[u/Sqrt[u^2]  
Int[SimplifyIntegrand[x*(D[u, x]/(u*Sqrt[u^2 - 1])), x], x], x] /; In  
verseFunctionFreeQ[u, x] && !FunctionOfExponentialQ[u, x]`
5792. `Int[ArcCsc[u_], x_Symbol] := Simp[x*ArcCsc[u], x] + Simp[u/Sqrt[u^2]  
Int[SimplifyIntegrand[x*(D[u, x]/(u*Sqrt[u^2 - 1])), x], x], x] /; In  
verseFunctionFreeQ[u, x] && !FunctionOfExponentialQ[u, x]`
5793. `Int[((a_.) + ArcSec[u_]*(b_.))*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :  
> Simp[(c + d*x)^(m + 1)*((a + b*ArcSec[u])/(d*(m + 1))), x] - Simp[b*  
(u/(d*(m + 1)*Sqrt[u^2])) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D  
[u, x]/(u*Sqrt[u^2 - 1])), x], x], x] /; FreeQ[{a, b, c, d, m}, x] &&  
NeQ[m, -1] && InverseFunctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m  
+ 1), u, x] && !FunctionOfExponentialQ[u, x]`
5794. `Int[((a_.) + ArcCsc[u_]*(b_.))*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :  
> Simp[(c + d*x)^(m + 1)*((a + b*ArcCsc[u])/(d*(m + 1))), x] + Simp[b*  
(u/(d*(m + 1)*Sqrt[u^2])) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D  
[u, x]/(u*Sqrt[u^2 - 1])), x], x], x] /; FreeQ[{a, b, c, d, m}, x] &&  
NeQ[m, -1] && InverseFunctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m  
+ 1), u, x] && !FunctionOfExponentialQ[u, x]`
5795. `Int[((a_.) + ArcSec[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v,  
x]}, Simp[(a + b*ArcSec[u]) w, x] - Simp[b*(u/Sqrt[u^2]) Int[Simp  
lifyIntegrand[w*(D[u, x]/(u*Sqrt[u^2 - 1])), x], x], x] /; InverseFunc  
tionFreeQ[w, x] /; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] &&  
!MatchQ[v, ((c_.) + (d_.)*x)^(m_.) /; FreeQ[{c, d, m}, x]`



5796. `Int[((a_.) + ArcCsc[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v, x]}, Simp[(a + b*ArcCsc[u]) w, x] + Simp[b*(u/Sqrt[u^2]) Int[SimplifyIntegrand[w*(D[u, x]/(u*Sqrt[u^2 - 1])), x], x], x] /; InverseFunctionFreeQ[w, x] /; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_.) + (d_.)*x)^(m_.) /; FreeQ[{c, d, m}, x]`
5797. `Int[(u_)^(m_.)*((a_.) + (b_.)*Sinh[v_])^(n_.), x_Symbol] := Int[ExpandToSum[u, x]^m*(a + b*Sinh[ExpandToSum[v, x]])^n, x] /; FreeQ[{a, b, m, n}, x] && LinearQ[{u, v}, x] && !LinearMatchQ[{u, v}, x]`
5798. `Int[((a_.) + Cosh[v_]*(b_.))^(n_.)*(u_)^(m_.), x_Symbol] := Int[ExpandToSum[u, x]^m*(a + b*Cosh[ExpandToSum[v, x]])^n, x] /; FreeQ[{a, b, m, n}, x] && LinearQ[{u, v}, x] && !LinearMatchQ[{u, v}, x]`
5799. `Int[((a_) + (b_.)*(x_)^(n_))^(p_.)*Sinh[(c_.) + (d_.)*(x_)], x_Symbol] := Int[ExpandIntegrand[Sinh[c + d*x], (a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, n}, x] && IGtQ[p, 0]`
5800. `Int[Cosh[(c_.) + (d_.)*(x_)]*((a_) + (b_.)*(x_)^(n_))^(p_.), x_Symbol] := Int[ExpandIntegrand[Cosh[c + d*x], (a + b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, n}, x] && IGtQ[p, 0]`
5801. `Int[((a_) + (b_.)*(x_)^(n_))^(p_.)*Sinh[(c_.) + (d_.)*(x_)], x_Symbol] := Simp[x^(-n + 1)*(a + b*x^n)^(p + 1)*(Sinh[c + d*x]/(b*n*(p + 1))), x] + (-Simp[(-n + 1)/(b*n*(p + 1)) Int[((a + b*x^n)^(p + 1)*Sinh[c + d*x])/x^n, x], x] - Simp[d/(b*n*(p + 1)) Int[x^(-n + 1)*(a + b*x^n)^(p + 1)*Cosh[c + d*x], x], x] /; FreeQ[{a, b, c, d}, x] && IntegerQ[p] && IGtQ[n, 0] && LtQ[p, -1] && GtQ[n, 2]`
5802. `Int[Cosh[(c_.) + (d_.)*(x_)]*((a_) + (b_.)*(x_)^(n_))^(p_.), x_Symbol] := Simp[x^(-n + 1)*(a + b*x^n)^(p + 1)*(Cosh[c + d*x]/(b*n*(p + 1))), x] + (-Simp[(-n + 1)/(b*n*(p + 1)) Int[((a + b*x^n)^(p + 1)*Cosh[c + d*x])/x^n, x], x] - Simp[d/(b*n*(p + 1)) Int[x^(-n + 1)*(a + b*x^n)^(p + 1)*Sinh[c + d*x], x], x] /; FreeQ[{a, b, c, d}, x] && IntegerQ[p] && IGtQ[n, 0] && LtQ[p, -1] && GtQ[n, 2]`

5803. `Int[((a_) + (b_)*(x_)^(n_))^(p_)*Sinh[(c_) + (d_)*(x_)], x_Symbol]`  
`:> Int[ExpandIntegrand[Sinh[c + d*x], (a + b*x^n)^p, x], x] /; FreeQ[{`  
`a, b, c, d}, x] && ILtQ[p, 0] && IGtQ[n, 0] && (EqQ[n, 2] || EqQ[p, -1`  
`])`
5804. `Int[Cosh[(c_) + (d_)*(x_)]*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol]`  
`:> Int[ExpandIntegrand[Cosh[c + d*x], (a + b*x^n)^p, x], x] /; FreeQ[{`  
`a, b, c, d}, x] && ILtQ[p, 0] && IGtQ[n, 0] && (EqQ[n, 2] || EqQ[p, -1`  
`])`
5805. `Int[((a_) + (b_)*(x_)^(n_))^(p_)*Sinh[(c_) + (d_)*(x_)], x_Symbol]`  
`:> Int[x^(n*p)*(b + a/x^n)^p*Sinh[c + d*x], x] /; FreeQ[{a, b, c, d},`  
`x] && ILtQ[p, 0] && ILtQ[n, 0]`
5806. `Int[Cosh[(c_) + (d_)*(x_)]*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol]`  
`:> Int[x^(n*p)*(b + a/x^n)^p*Cosh[c + d*x], x] /; FreeQ[{a, b, c, d},`  
`x] && ILtQ[p, 0] && ILtQ[n, 0]`
5807. `Int[((a_) + (b_)*(x_)^(n_))^(p_)*Sinh[(c_) + (d_)*(x_)], x_Symbol]`  
`:> Unintegrable[(a + b*x^n)^p*Sinh[c + d*x], x] /; FreeQ[{a, b, c, d,`  
`n, p}, x]`
5808. `Int[Cosh[(c_) + (d_)*(x_)]*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol]`  
`:> Unintegrable[(a + b*x^n)^p*Cosh[c + d*x], x] /; FreeQ[{a, b, c, d,`  
`n, p}, x]`
5809. `Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*Sinh[(c_) + (d_`  
`)*(x_)], x_Symbol] :> Int[ExpandIntegrand[Sinh[c + d*x], (e*x)^m*(a +`  
`b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && IGtQ[p, 0]`
5810. `Int[Cosh[(c_) + (d_)*(x_)]*((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_`  
`))^(p_), x_Symbol] :> Int[ExpandIntegrand[Cosh[c + d*x], (e*x)^m*(a +`  
`b*x^n)^p, x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && IGtQ[p, 0]`
5811. `Int[((e_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_))^(p_)*Sinh[(c_) + (d_`  
`)*(x_)], x_Symbol] :> Simp[e^m*(a + b*x^n)^(p + 1)*(Sinh[c + d*x]/(b*n`

- $$*(p + 1)), x] - \text{Simp}[d*(e^m/(b*n*(p + 1))) \text{ Int}[(a + b*x^n)^{(p + 1)} * \text{Cosh}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{EqQ}[m - n + 1, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ (\text{IntegerQ}[n] \ || \ \text{GtQ}[e, 0])$$
5812. 
$$\text{Int}[\text{Cosh}[(c_.) + (d_.)*(x_.)]*((e_.)*(x_.))^{(m_.)}*((a_.) + (b_.)*(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \ :> \ \text{Simp}[e^m*(a + b*x^n)^{(p + 1)}*(\text{Cosh}[c + d*x]/(b*n*(p + 1))), x] - \text{Simp}[d*(e^m/(b*n*(p + 1))) \ \text{Int}[(a + b*x^n)^{(p + 1)} * \text{Sinh}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{EqQ}[m - n + 1, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ (\text{IntegerQ}[n] \ || \ \text{GtQ}[e, 0])$$
5813. 
$$\text{Int}[(x_.)^{(m_.)}*((a_.) + (b_.)*(x_.)^{(n_.)})^{(p_.)}*\text{Sinh}[(c_.) + (d_.)*(x_.)], x\_Symbol] \ :> \ \text{Simp}[x^{(m - n + 1)}*(a + b*x^n)^{(p + 1)}*(\text{Sinh}[c + d*x]/(b*n*(p + 1))), x] + (-\text{Simp}[(m - n + 1)/(b*n*(p + 1)) \ \text{Int}[x^{(m - n)}*(a + b*x^n)^{(p + 1)}*\text{Sinh}[c + d*x], x], x] - \text{Simp}[d/(b*n*(p + 1)) \ \text{Int}[x^{(m - n + 1)}*(a + b*x^n)^{(p + 1)}*\text{Cosh}[c + d*x], x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{ILtQ}[p, -1] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{RationalQ}[m] \ \&\& \ (\text{GtQ}[m - n + 1, 0] \ || \ \text{GtQ}[n, 2])$$
5814. 
$$\text{Int}[\text{Cosh}[(c_.) + (d_.)*(x_.)]*(x_.)^{(m_.)}*((a_.) + (b_.)*(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \ :> \ \text{Simp}[x^{(m - n + 1)}*(a + b*x^n)^{(p + 1)}*(\text{Cosh}[c + d*x]/(b*n*(p + 1))), x] + (-\text{Simp}[(m - n + 1)/(b*n*(p + 1)) \ \text{Int}[x^{(m - n)}*(a + b*x^n)^{(p + 1)}*\text{Cosh}[c + d*x], x], x] - \text{Simp}[d/(b*n*(p + 1)) \ \text{Int}[x^{(m - n + 1)}*(a + b*x^n)^{(p + 1)}*\text{Sinh}[c + d*x], x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{ILtQ}[p, -1] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{RationalQ}[m] \ \&\& \ (\text{GtQ}[m - n + 1, 0] \ || \ \text{GtQ}[n, 2])$$
5815. 
$$\text{Int}[(x_.)^{(m_.)}*((a_.) + (b_.)*(x_.)^{(n_.)})^{(p_.)}*\text{Sinh}[(c_.) + (d_.)*(x_.)], x\_Symbol] \ :> \ \text{Int}[\text{ExpandIntegrand}[\text{Sinh}[c + d*x], x^m*(a + b*x^n)^p, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ (\text{EqQ}[n, 2] \ || \ \text{EqQ}[p, -1])$$
5816. 
$$\text{Int}[\text{Cosh}[(c_.) + (d_.)*(x_.)]*(x_.)^{(m_.)}*((a_.) + (b_.)*(x_.)^{(n_.)})^{(p_.)}, x\_Symbol] \ :> \ \text{Int}[\text{ExpandIntegrand}[\text{Cosh}[c + d*x], x^m*(a + b*x^n)^p, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{ILtQ}[p, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ (\text{EqQ}[n, 2] \ || \ \text{EqQ}[p, -1])$$

5817.  $\text{Int}[(x\_)^{(m\_)}*((a\_)+(b\_)*(x\_)^{(n\_)})^{(p\_)}*\text{Sinh}[(c\_)+(d\_)*(x\_)], x\_Symbol] \rightarrow \text{Int}[x^{(m+n*p)}*(b+a/x^n)^p*\text{Sinh}[c+d*x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{ILtQ}[p, 0] \&\& \text{ILtQ}[n, 0]$
5818.  $\text{Int}[\text{Cosh}[(c\_)+(d\_)*(x\_)]*(x\_)^{(m\_)}*((a\_)+(b\_)*(x\_)^{(n\_)})^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[x^{(m+n*p)}*(b+a/x^n)^p*\text{Cosh}[c+d*x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{ILtQ}[p, 0] \&\& \text{ILtQ}[n, 0]$
5819.  $\text{Int}[((e\_)*(x\_))^{(m\_)}*((a\_)+(b\_)*(x\_)^{(n\_)})^{(p\_)}*\text{Sinh}[(c\_)+(d\_)*(x\_)], x\_Symbol] \rightarrow \text{Unintegrable}[(e*x)^m*(a+b*x^n)^p*\text{Sinh}[c+d*x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
5820.  $\text{Int}[\text{Cosh}[(c\_)+(d\_)*(x\_)]*((e\_)*(x\_))^{(m\_)}*((a\_)+(b\_)*(x\_)^{(n\_)})^{(p\_)}, x\_Symbol] \rightarrow \text{Unintegrable}[(e*x)^m*(a+b*x^n)^p*\text{Cosh}[c+d*x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
5821.  $\text{Int}[\text{Sinh}[(c\_)+(d\_)*(x\_)^{(n\_)}], x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[E^{(c+d*x^n)}, x], x] - \text{Simp}[1/2 \text{ Int}[E^{(-c-d*x^n)}, x], x] /; \text{FreeQ}[\{c, d\}, x] \&\& \text{IGtQ}[n, 1]$
5822.  $\text{Int}[\text{Cosh}[(c\_)+(d\_)*(x\_)^{(n\_)}], x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[E^{(c+d*x^n)}, x], x] + \text{Simp}[1/2 \text{ Int}[E^{(-c-d*x^n)}, x], x] /; \text{FreeQ}[\{c, d\}, x] \&\& \text{IGtQ}[n, 1]$
5823.  $\text{Int}[((a\_)+(b\_)*\text{Sinh}[(c\_)+(d\_)*(x\_)^{(n\_)}])^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(a+b*\text{Sinh}[c+d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{IGtQ}[p, 1]$
5824.  $\text{Int}[((a\_)+\text{Cosh}[(c\_)+(d\_)*(x\_)^{(n\_)}])*(b\_))^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(a+b*\text{Cosh}[c+d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IGtQ}[n, 1] \&\& \text{IGtQ}[p, 1]$
5825.  $\text{Int}[((a\_)+(b\_)*\text{Sinh}[(c\_)+(d\_)*(x\_)^{(n\_)}])^{(p\_)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a+b*\text{Sinh}[c+d/x^n])^p/x^2, x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{ILtQ}[n, 0] \&\& \text{IntegerQ}[p]$

5826.  $\text{Int}[(a_.) + \text{Cosh}[c_.) + (d_.)(x_)^(n_)]*(b_.))^(p_.), x\_Symbol] \rightarrow$   
 $-\text{Subst}[\text{Int}[(a + b*\text{Cosh}[c + d/x^n])^p/x^2, x], x, 1/x] /; \text{FreeQ}\{a, b,$   
 $c, d\}, x] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{IntegerQ}[p]$
5827.  $\text{Int}[(a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)(x_)^(n_))]^(p_.), x\_Symbol] \rightarrow$   
 $\text{Module}\{k = \text{Denominator}[n]\}, \text{Simp}[k \ \text{Subst}[\text{Int}[x^{(k-1)}*(a + b*\text{Sinh}[$   
 $c + d*x^{(k*n)})^p, x], x, x^{(1/k)}], x]] /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{F}$   
 $\text{ractionQ}[n] \ \&\& \ \text{IntegerQ}[p]$
5828.  $\text{Int}[(a_.) + \text{Cosh}[(c_.) + (d_.)(x_)^(n_)]*(b_.))^(p_.), x\_Symbol] \rightarrow$   
 $\text{Module}\{k = \text{Denominator}[n]\}, \text{Simp}[k \ \text{Subst}[\text{Int}[x^{(k-1)}*(a + b*\text{Cosh}[$   
 $c + d*x^{(k*n)})^p, x], x, x^{(1/k)}], x]] /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{F}$   
 $\text{ractionQ}[n] \ \&\& \ \text{IntegerQ}[p]$
5829.  $\text{Int}[\text{Sinh}[(c_.) + (d_.)(x_)^(n_)], x\_Symbol] \rightarrow \text{Simp}[1/2 \ \text{Int}[E^{(c +$   
 $d*x^n), x], x] - \text{Simp}[1/2 \ \text{Int}[E^{(-c - d*x^n)}, x], x] /; \text{FreeQ}\{c, d,$   
 $n\}, x]$
5830.  $\text{Int}[\text{Cosh}[(c_.) + (d_.)(x_)^(n_)], x\_Symbol] \rightarrow \text{Simp}[1/2 \ \text{Int}[E^{(c +$   
 $d*x^n), x], x] + \text{Simp}[1/2 \ \text{Int}[E^{(-c - d*x^n)}, x], x] /; \text{FreeQ}\{c, d,$   
 $n\}, x]$
5831.  $\text{Int}[(a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)(x_)^(n_))]^(p_.), x\_Symbol] \rightarrow \text{I}$   
 $\text{nt}[\text{ExpandTrigReduce}[(a + b*\text{Sinh}[c + d*x^n])^p, x], x] /; \text{FreeQ}\{a, b,$   
 $c, d, n\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
5832.  $\text{Int}[(a_.) + \text{Cosh}[(c_.) + (d_.)(x_)^(n_)]*(b_.))^(p_.), x\_Symbol] \rightarrow \text{I}$   
 $\text{nt}[\text{ExpandTrigReduce}[(a + b*\text{Cosh}[c + d*x^n])^p, x], x] /; \text{FreeQ}\{a, b,$   
 $c, d, n\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
5833.  $\text{Int}[(a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)(u_)^(n_))]^(p_.), x\_Symbol] \rightarrow$   
 $\text{Simp}[1/\text{Coefficient}[u, x, 1] \ \text{Subst}[\text{Int}[(a + b*\text{Sinh}[c + d*x^n])^p, x],$   
 $x, u], x] /; \text{FreeQ}\{a, b, c, d, n\}, x] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{LinearQ}[u, x]$   
 $] \ \&\& \ \text{NeQ}[u, x]$

5834.  $\text{Int}[(a_.) + \text{Cosh}[c_.) + (d_.)(u_)^{(n_)}] * (b_.)^{(p_.)}, x\_Symbol] \text{ :> } \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(a + b*\text{Cosh}[c + d*x^n])^p, x], x, u], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{LinearQ}[u, x] \ \&\& \ \text{NeQ}[u, x]$
5835.  $\text{Int}[(a_.) + (b_.)*\text{Sinh}[c_.) + (d_.)(u_)^{(n_)}]^{(p_.)}, x\_Symbol] \text{ :> } \text{Unintegrable}[(a + b*\text{Sinh}[c + d*u^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \ \&\& \ \text{LinearQ}[u, x]$
5836.  $\text{Int}[(a_.) + \text{Cosh}[c_.) + (d_.)(u_)^{(n_)}] * (b_.)^{(p_.)}, x\_Symbol] \text{ :> } \text{Unintegrable}[(a + b*\text{Cosh}[c + d*u^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \ \&\& \ \text{LinearQ}[u, x]$
5837.  $\text{Int}[(a_.) + (b_.)*\text{Sinh}[u_]]^{(p_.)}, x\_Symbol] \text{ :> } \text{Int}[(a + b*\text{Sinh}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, p\}, x] \ \&\& \ \text{BinomialQ}[u, x] \ \&\& \ \text{!BinomialMatchQ}[u, x]$
5838.  $\text{Int}[(a_.) + \text{Cosh}[u_] * (b_.)]^{(p_.)}, x\_Symbol] \text{ :> } \text{Int}[(a + b*\text{Cosh}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, p\}, x] \ \&\& \ \text{BinomialQ}[u, x] \ \&\& \ \text{!BinomialMatchQ}[u, x]$
5839.  $\text{Int}[\text{Sinh}[(d_.)(x_)^{(n_)}] / (x_), x\_Symbol] \text{ :> } \text{Simp}[\text{SinhIntegral}[d*x^n] / n, x] /; \text{FreeQ}[\{d, n\}, x]$
5840.  $\text{Int}[\text{Cosh}[(d_.)(x_)^{(n_)}] / (x_), x\_Symbol] \text{ :> } \text{Simp}[\text{CoshIntegral}[d*x^n] / n, x] /; \text{FreeQ}[\{d, n\}, x]$
5841.  $\text{Int}[\text{Sinh}[c_ + (d_.)(x_)^{(n_)}] / (x_), x\_Symbol] \text{ :> } \text{Simp}[\text{Sinh}[c] \text{ Int}[\text{Cosh}[d*x^n] / x, x], x] + \text{Simp}[\text{Cosh}[c] \text{ Int}[\text{Sinh}[d*x^n] / x, x], x] /; \text{FreeQ}[\{c, d, n\}, x]$
5842.  $\text{Int}[\text{Cosh}[c_ + (d_.)(x_)^{(n_)}] / (x_), x\_Symbol] \text{ :> } \text{Simp}[\text{Cosh}[c] \text{ Int}[\text{Cosh}[d*x^n] / x, x], x] + \text{Simp}[\text{Sinh}[c] \text{ Int}[\text{Sinh}[d*x^n] / x, x], x] /; \text{FreeQ}[\{c, d, n\}, x]$

5843.  $\text{Int}[(x_)^{(m_.)}*((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)^{(n_.)}])^{(p_.)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n) - 1}*(a + b*\text{Sinh}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]] \&\& (\text{EqQ}[p, 1] \|\| \text{EqQ}[m, n - 1] \|\| (\text{IntegerQ}[p] \&\& \text{GtQ}[\text{Simplify}[(m + 1)/n], 0]))$
5844.  $\text{Int}[(a_.) + \text{Cosh}[(c_.) + (d_.)*(x_)^{(n_.)}]*(b_.)]^{(p_.)}*(x_)^{(m_.)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n) - 1}*(a + b*\text{Cosh}[c + d*x])^p, x], x, x^n], x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]] \&\& (\text{EqQ}[p, 1] \|\| \text{EqQ}[m, n - 1] \|\| (\text{IntegerQ}[p] \&\& \text{GtQ}[\text{Simplify}[(m + 1)/n], 0]))$
5845.  $\text{Int}[(e_)*(x_)^{(m_.)}*((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)^{(n_.)}])^{(p_.)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}*((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*\text{Sinh}[c + d*x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
5846.  $\text{Int}[(a_.) + \text{Cosh}[(c_.) + (d_.)*(x_)^{(n_.)}]*(b_.)]^{(p_.)}*((e_)*(x_)^{(m_.)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}*((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*\text{Cosh}[c + d*x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& \text{IntegerQ}[\text{Simplify}[(m + 1)/n]]$
5847.  $\text{Int}[(e_)*(x_)^{(m_.)}*\text{Sinh}[(c_.) + (d_.)*(x_)^{(n_.)}], x\_ \text{Symbol}] \rightarrow \text{Simp}[e^{(n - 1)}*(e*x)^{(m - n + 1)}*(\text{Cosh}[c + d*x^n]/(d*n)), x] - \text{Simp}[e^{(m - n + 1)}*(e*x)^{(m - n)}*\text{Cosh}[c + d*x^n], x], x] /; \text{FreeQ}\{c, d, e\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[0, n, m + 1]$
5848.  $\text{Int}[\text{Cosh}[(c_.) + (d_.)*(x_)^{(n_.)}]*(e_)*(x_)^{(m_.)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[e^{(n - 1)}*(e*x)^{(m - n + 1)}*(\text{Sinh}[c + d*x^n]/(d*n)), x] - \text{Simp}[e^{(m - n + 1)}*(e*x)^{(m - n)}*\text{Sinh}[c + d*x^n], x], x] /; \text{FreeQ}\{c, d, e\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[0, n, m + 1]$
5849.  $\text{Int}[(e_)*(x_)^{(m_.)}*\text{Sinh}[(c_.) + (d_.)*(x_)^{(n_.)}], x\_ \text{Symbol}] \rightarrow \text{Simp}[(e*x)^{(m + 1)}*(\text{Sinh}[c + d*x^n]/(e*(m + 1))), x] - \text{Simp}[d*(n/(e^{(m + 1)})) \text{Int}[(e*x)^{(m + n)}*\text{Cosh}[c + d*x^n], x], x] /; \text{FreeQ}\{c, d, e\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[m, -1]$

5850.  $\text{Int}[\text{Cosh}[(c_.) + (d_.)(x_)^{(n_)}] * ((e_.)(x_))^{(m_)}, x\_Symbol] \rightarrow \text{Simp}[(e*x)^{(m+1)} * (\text{Cosh}[c + d*x^n] / (e*(m+1))), x] - \text{Simp}[d*(n/(e^n*(m+1))) \text{Int}[(e*x)^{(m+n)} * \text{Sinh}[c + d*x^n], x], x] /; \text{FreeQ}[\{c, d, e\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{LtQ}[m, -1]$
5851.  $\text{Int}[((e_.)(x_))^{(m_.)} * \text{Sinh}[(c_.) + (d_.)(x_)^{(n_)}], x\_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[(e*x)^m * E^{(c + d*x^n)}, x], x] - \text{Simp}[1/2 \text{Int}[(e*x)^m * E^{(-c - d*x^n)}, x], x] /; \text{FreeQ}[\{c, d, e, m\}, x] \&\& \text{IGtQ}[n, 0]$
5852.  $\text{Int}[\text{Cosh}[(c_.) + (d_.)(x_)^{(n_)}] * ((e_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[(e*x)^m * E^{(c + d*x^n)}, x], x] + \text{Simp}[1/2 \text{Int}[(e*x)^m * E^{(-c - d*x^n)}, x], x] /; \text{FreeQ}[\{c, d, e, m\}, x] \&\& \text{IGtQ}[n, 0]$
5853.  $\text{Int}[(x_)^{(m_.)} * \text{Sinh}[(a_.) + (b_.)(x_)^{(n_)}]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[-\text{Sinh}[a + b*x^n]^p / ((n-1)*x^{(n-1)}), x] + \text{Simp}[b*n*(p/(n-1)) \text{Int}[\text{Sinh}[a + b*x^n]^{(p-1)} * \text{Cosh}[a + b*x^n], x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IntegersQ}[n, p] \&\& \text{EqQ}[m+n, 0] \&\& \text{GtQ}[p, 1] \&\& \text{NeQ}[n, 1]$
5854.  $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_)^{(n_)}]^{(p_)} * (x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[-\text{Cosh}[a + b*x^n]^p / ((n-1)*x^{(n-1)}), x] + \text{Simp}[b*n*(p/(n-1)) \text{Int}[\text{Cosh}[a + b*x^n]^{(p-1)} * \text{Sinh}[a + b*x^n], x], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IntegersQ}[n, p] \&\& \text{EqQ}[m+n, 0] \&\& \text{GtQ}[p, 1] \&\& \text{NeQ}[n, 1]$
5855.  $\text{Int}[(x_)^{(m_.)} * \text{Sinh}[(a_.) + (b_.)(x_)^{(n_)}]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(-n) * (\text{Sinh}[a + b*x^n]^p / (b^2 * n^2 * p^2)), x] + (\text{Simp}[x^n * \text{Cosh}[a + b*x^n] * (\text{Sinh}[a + b*x^n]^{(p-1)} / (b*n*p)), x] - \text{Simp}[(p-1)/p \text{Int}[x^m * \text{Sinh}[a + b*x^n]^{(p-2)}, x], x]) /; \text{FreeQ}[\{a, b, m, n\}, x] \&\& \text{EqQ}[m-2*n+1] \&\& \text{GtQ}[p, 1]$
5856.  $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_)^{(n_)}]^{(p_)} * (x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(-n) * (\text{Cosh}[a + b*x^n]^p / (b^2 * n^2 * p^2)), x] + (\text{Simp}[x^n * \text{Sinh}[a + b*x^n] * (\text{Cosh}[a + b*x^n]^{(p-1)} / (b*n*p)), x] + \text{Simp}[(p-1)/p \text{Int}[x^m * \text{Cosh}[a + b*x^n]^{(p-2)}, x], x]) /; \text{FreeQ}[\{a, b, m, n\}, x] \&\& \text{EqQ}[m-2*n+1] \&\& \text{GtQ}[p, 1]$



5857.  $\text{Int}[(x_)^{(m_.)} \text{Sinh}[a_.] + (b_.)(x_)^{(n_)}]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[($   
 $-(m - n + 1))x^{(m - 2n + 1)}(\text{Sinh}[a + bx^n]^p/(b^2n^2p^2)), x] +$   
 $(\text{Simp}[x^{(m - n + 1)}\text{Cosh}[a + bx^n](\text{Sinh}[a + bx^n]^{(p - 1)})/(b*n*p)),$   
 $x] - \text{Simp}[(p - 1)/p \text{Int}[x^m \text{Sinh}[a + bx^n]^{(p - 2)}, x], x] + \text{Simp}[($   
 $(m - n + 1)((m - 2n + 1)/(b^2n^2p^2)) \text{Int}[x^{(m - 2n)} \text{Sinh}[a + b$   
 $*x^n]^p, x], x)] /; \text{FreeQ}\{a, b\}, x\} \&\& \text{IntegersQ}[m, n] \&\& \text{GtQ}[p, 1] \&$   
 $\& \text{LtQ}[0, 2*n, m + 1]$
5858.  $\text{Int}[\text{Cosh}[a_.] + (b_.)(x_)^{(n_)}]^{(p_)}(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[($   
 $-(m - n + 1))x^{(m - 2n + 1)}(\text{Cosh}[a + bx^n]^p/(b^2n^2p^2)), x] +$   
 $(\text{Simp}[x^{(m - n + 1)}\text{Sinh}[a + bx^n](\text{Cosh}[a + bx^n]^{(p - 1)})/(b*n*p)),$   
 $x] + \text{Simp}[(p - 1)/p \text{Int}[x^m \text{Cosh}[a + bx^n]^{(p - 2)}, x], x] + \text{Simp}[($   
 $(m - n + 1)((m - 2n + 1)/(b^2n^2p^2)) \text{Int}[x^{(m - 2n)} \text{Cosh}[a + b$   
 $*x^n]^p, x], x)] /; \text{FreeQ}\{a, b\}, x\} \&\& \text{IntegersQ}[m, n] \&\& \text{GtQ}[p, 1] \&$   
 $\& \text{LtQ}[0, 2*n, m + 1]$
5859.  $\text{Int}[(x_)^{(m_.)} \text{Sinh}[a_.] + (b_.)(x_)^{(n_)}]^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[x$   
 $^{(m + 1)}(\text{Sinh}[a + bx^n]^p/(m + 1)), x] + (-\text{Simp}[b*n*p*x^{(m + n + 1)}*$   
 $\text{Cosh}[a + bx^n](\text{Sinh}[a + bx^n]^{(p - 1)})/((m + 1)(m + n + 1))), x] +$   
 $\text{Simp}[b^2n^2p*((p - 1)/((m + 1)(m + n + 1))) \text{Int}[x^{(m + 2n)} \text{Sinh}[$   
 $a + bx^n]^{(p - 2)}, x], x] + \text{Simp}[b^2n^2*(p^2/((m + 1)(m + n + 1)))$   
 $\text{Int}[x^{(m + 2n)} \text{Sinh}[a + bx^n]^p, x], x)] /; \text{FreeQ}\{a, b\}, x\} \&\& \text{In}$   
 $\text{tegersQ}[m, n] \&\& \text{GtQ}[p, 1] \&\& \text{LtQ}[0, 2*n, 1 - m] \&\& \text{NeQ}[m + n + 1, 0]$
5860.  $\text{Int}[\text{Cosh}[a_.] + (b_.)(x_)^{(n_)}]^{(p_)}(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[x$   
 $^{(m + 1)}(\text{Cosh}[a + bx^n]^p/(m + 1)), x] + (-\text{Simp}[b*n*p*x^{(m + n + 1)}*$   
 $\text{Sinh}[a + bx^n](\text{Cosh}[a + bx^n]^{(p - 1)})/((m + 1)(m + n + 1))), x] -$   
 $\text{Simp}[b^2n^2p*((p - 1)/((m + 1)(m + n + 1))) \text{Int}[x^{(m + 2n)} \text{Cosh}[$   
 $a + bx^n]^{(p - 2)}, x], x] + \text{Simp}[b^2n^2*(p^2/((m + 1)(m + n + 1)))$   
 $\text{Int}[x^{(m + 2n)} \text{Cosh}[a + bx^n]^p, x], x)] /; \text{FreeQ}\{a, b\}, x\} \&\& \text{In}$   
 $\text{tegersQ}[m, n] \&\& \text{GtQ}[p, 1] \&\& \text{LtQ}[0, 2*n, 1 - m] \&\& \text{NeQ}[m + n + 1, 0]$
5861.  $\text{Int}[((e_.)(x_))^{(m_)}((a_.) + (b_.)\text{Sinh}[c_.] + (d_.)(x_)^{(n_)}])^{(p$   
 $_.)}, x\_Symbol] \rightarrow \text{With}\{k = \text{Denominator}[m]\}, \text{Simp}[k/e \text{Subst}[\text{Int}[x^{(k$   
 $*(m + 1) - 1)(a + b*\text{Sinh}[c + d*(x^{(k*n)}/e^n)]^p, x], x, (e*x)^{(1/k)}$   
 $], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{IntegerQ}[p] \&\& \text{IGtQ}[n, 0] \&\& \text{Fra}$   
 $\text{ctionQ}[m]$

5862.  $\text{Int}[(a_.) + \text{Cosh}[c_.) + (d_.)(x_)^{(n_)}] * (b_.)^{(p_.)} * ((e_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[k/e \text{ Subst}[\text{Int}[x^{(k*(m+1)-1)} * (a + b*\text{Cosh}[c + d*(x^{(k*n)})/e^n])]^p, x], x, (e*x)^{(1/k)}], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[p] \&\& \text{IGtQ}[n, 0] \&\& \text{FractionQ}[m]$
5863.  $\text{Int}[(e_.)(x_))^{(m_.)} * ((a_.) + (b_.)*\text{Sinh}[c_.) + (d_.)(x_)^{(n_)}])^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e*x)^m, (a + b*\text{Sinh}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{IGtQ}[n, 0]$
5864.  $\text{Int}[(a_.) + \text{Cosh}[c_.) + (d_.)(x_)^{(n_)}] * (b_.)^{(p_.)} * ((e_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e*x)^m, (a + b*\text{Cosh}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{IGtQ}[n, 0]$
5865.  $\text{Int}[(x_)^{(m_.)} * \text{Sinh}[a_.) + (b_.)(x_)^{(n_)}]^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{n*\text{Cosh}[a + b*x^n] * (\text{Sinh}[a + b*x^n]^{(p+1)} / (b*n*(p+1)))}, x] + (-\text{Simp}[n * (\text{Sinh}[a + b*x^n]^{(p+2)} / (b^2*n^2*(p+1)*(p+2)))}, x] - \text{Simp}[(p+2)/(p+1) \text{ Int}[x^m * \text{Sinh}[a + b*x^n]^{(p+2)}, x], x]) /; \text{FreeQ}[\{a, b, m, n\}, x] \&\& \text{EqQ}[m - 2*n + 1, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2]$
5866.  $\text{Int}[\text{Cosh}[a_.) + (b_.)(x_)^{(n_)}]^{(p_.)} * (x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(-x^n) * \text{Sinh}[a + b*x^n] * (\text{Cosh}[a + b*x^n]^{(p+1)} / (b*n*(p+1)))}, x] + (\text{Simp}[n * (\text{Cosh}[a + b*x^n]^{(p+2)} / (b^2*n^2*(p+1)*(p+2)))}, x] + \text{Simp}[(p+2)/(p+1) \text{ Int}[x^m * \text{Cosh}[a + b*x^n]^{(p+2)}, x], x]) /; \text{FreeQ}[\{a, b, m, n\}, x] \&\& \text{EqQ}[m - 2*n + 1, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2]$
5867.  $\text{Int}[(x_)^{(m_.)} * \text{Sinh}[a_.) + (b_.)(x_)^{(n_)}]^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m-n+1)} * \text{Cosh}[a + b*x^n] * (\text{Sinh}[a + b*x^n]^{(p+1)} / (b*n*(p+1)))}, x] + (-\text{Simp}[(m-n+1) * x^{(m-2*n+1)} * (\text{Sinh}[a + b*x^n]^{(p+2)} / (b^2*n^2*(p+1)*(p+2)))}, x] - \text{Simp}[(p+2)/(p+1) \text{ Int}[x^m * \text{Sinh}[a + b*x^n]^{(p+2)}, x], x] + \text{Simp}[(m-n+1) * ((m-2*n+1) / (b^2*n^2*(p+1)*(p+2))) \text{ Int}[x^{(m-2*n)} * \text{Sinh}[a + b*x^n]^{(p+2)}, x], x]) /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IntegersQ}[m, n] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2] \&\& \text{LtQ}[0,$

$2*n, m + 1]$

5868.  $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_)^(n_)]^(p_)*(x_)^(m_.), x\_Symbol] \rightarrow \text{Simp}[( -x^{(m - n + 1)} * \text{Sinh}[a + b*x^n] * (\text{Cosh}[a + b*x^n]^{(p + 1)} / (b*n*(p + 1))) , x] + (\text{Simp}[(m - n + 1)*x^{(m - 2*n + 1)} * (\text{Cosh}[a + b*x^n]^{(p + 2)} / (b^2*n^2*(p + 1)*(p + 2))) , x] + \text{Simp}[(p + 2)/(p + 1) \text{Int}[x^m * \text{Cosh}[a + b*x^n]^{(p + 2)}, x], x] - \text{Simp}[(m - n + 1)*((m - 2*n + 1)/(b^2*n^2*(p + 1)*(p + 2))) \text{Int}[x^{(m - 2*n)} * \text{Cosh}[a + b*x^n]^{(p + 2)}, x], x]) /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IntegersQ}[m, n] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2] \&\& \text{LtQ}[0, 2*n, m + 1]$
5869.  $\text{Int}[(x_)^(m_.)*((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b*\text{Sinh}[c + d/x^n])^p/x^{(m + 2)}, x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IntegerQ}[p] \&\& \text{ILtQ}[n, 0] \&\& \text{IntegerQ}[m]$
5870.  $\text{Int}[(a_.) + \text{Cosh}[(c_.) + (d_.)*(x_)^(n_)]*(b_.)]^(p_.)*(x_)^(m_.), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b*\text{Cosh}[c + d/x^n])^p/x^{(m + 2)}, x], x, 1/x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IntegerQ}[p] \&\& \text{ILtQ}[n, 0] \&\& \text{IntegerQ}[m]$
5871.  $\text{Int}[(e_.)*(x_)^(m_)*((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x\_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[-k/e \text{Subst}[\text{Int}[(a + b*\text{Sinh}[c + d/(e^n*x^(k*n))])^p/x^{(k*(m + 1) + 1)}, x], x, 1/(e*x)^(1/k)], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[p] \&\& \text{ILtQ}[n, 0] \&\& \text{FractionQ}[m]$
5872.  $\text{Int}[(a_.) + \text{Cosh}[(c_.) + (d_.)*(x_)^(n_)]*(b_.)]^(p_.)*((e_.)*(x_)^(m_)), x\_Symbol] \rightarrow \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[-k/e \text{Subst}[\text{Int}[(a + b*\text{Cosh}[c + d/(e^n*x^(k*n))])^p/x^{(k*(m + 1) + 1)}, x], x, 1/(e*x)^(1/k)], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[p] \&\& \text{ILtQ}[n, 0] \&\& \text{FractionQ}[m]$
5873.  $\text{Int}[(e_.)*(x_)^(m_)*((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x\_Symbol] \rightarrow \text{Simp}[(-e*x)^m*(x^{(-1)})^m \text{Subst}[\text{Int}[(a + b*\text{Sinh}[c + d/x^n])^p/x^{(m + 2)}, x], x, 1/x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \text{IntegerQ}[p] \&\& \text{ILtQ}[n, 0] \&\& !\text{RationalQ}[m]$

5874.  $\text{Int}[(a + \cosh(c + d(x)^n) \cdot b)^p \cdot (e \cdot x)^m]$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[(-e \cdot x)^m \cdot (x^{-1})^m \text{Subst}[\text{Int}[(a + b \cdot \cosh(c + d/x^n))^p/x^{m+2}], x], x, 1/x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, x\}$  &&  $\text{IntegerQ}[p]$  &&  $\text{ILtQ}[n, 0]$  &&  $\text{!RationalQ}[m]$
5875.  $\text{Int}[(x)^m \cdot (a + (b \cdot \sinh(c + d(x)^n)))^p]$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Module}\{k = \text{Denominator}[n]\}$ ,  $\text{Simp}[k \text{Subst}[\text{Int}[x^{(k \cdot (m + 1) - 1)} \cdot (a + b \cdot \sinh[c + d \cdot x^{(k \cdot n)}])^p], x], x, x^{(1/k)}], x] /;$   $\text{FreeQ}\{a, b, c, d, m, x\}$  &&  $\text{IntegerQ}[p]$  &&  $\text{FractionQ}[n]$
5876.  $\text{Int}[(a + \cosh(c + d(x)^n) \cdot b)^p \cdot (x)^m]$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Module}\{k = \text{Denominator}[n]\}$ ,  $\text{Simp}[k \text{Subst}[\text{Int}[x^{(k \cdot (m + 1) - 1)} \cdot (a + b \cdot \cosh[c + d \cdot x^{(k \cdot n)}])^p], x], x, x^{(1/k)}], x] /;$   $\text{FreeQ}\{a, b, c, d, m, x\}$  &&  $\text{IntegerQ}[p]$  &&  $\text{FractionQ}[n]$
5877.  $\text{Int}[(e \cdot x)^m \cdot (a + (b \cdot \sinh(c + d(x)^n)))^p]$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[e^{\text{IntPart}[m]} \cdot ((e \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m \cdot (a + b \cdot \sinh[c + d \cdot x^n])^p], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, x\}$  &&  $\text{IntegerQ}[p]$  &&  $\text{FractionQ}[n]$
5878.  $\text{Int}[(a + \cosh(c + d(x)^n) \cdot b)^p \cdot (e \cdot x)^m]$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[e^{\text{IntPart}[m]} \cdot ((e \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m \cdot (a + b \cdot \cosh[c + d \cdot x^n])^p], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, x\}$  &&  $\text{IntegerQ}[p]$  &&  $\text{FractionQ}[n]$
5879.  $\text{Int}[(x)^m \cdot (a + (b \cdot \sinh(c + d(x)^n)))^p]$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[1/(m + 1) \text{Subst}[\text{Int}[(a + b \cdot \sinh[c + d \cdot x^{\text{Simplify}[n/(m + 1)]])^p], x], x, x^{(m + 1)}], x] /;$   $\text{FreeQ}\{a, b, c, d, m, n, x\}$  &&  $\text{IntegerQ}[p]$  &&  $\text{NeQ}[m, -1]$  &&  $\text{IGtQ}[\text{Simplify}[n/(m + 1)], 0]$  &&  $\text{!IntegerQ}[n]$
5880.  $\text{Int}[(a + \cosh(c + d(x)^n) \cdot b)^p \cdot (x)^m]$ ,  $x_{\text{Symbol}}$   $\rightarrow$   $\text{Simp}[1/(m + 1) \text{Subst}[\text{Int}[(a + b \cdot \cosh[c + d \cdot x^{\text{Simplify}[n/(m + 1)]])^p], x], x, x^{(m + 1)}], x] /;$   $\text{FreeQ}\{a, b, c, d, m, n, x\}$  &&  $\text{IntegerQ}[p]$  &&  $\text{NeQ}[m, -1]$  &&  $\text{IGtQ}[\text{Simplify}[n/(m + 1)], 0]$  &&  $\text{!IntegerQ}[n]$

5881.  $\text{Int}[(e \cdot x)^m \cdot ((a) + (b) \cdot \text{Sinh}[(c) + (d) \cdot x^n])^p, x\_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]} \cdot ((e \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \cdot \text{Int}[x^m \cdot (a + b \cdot \text{Sinh}[c + d \cdot x^n])^p, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{IGtQ}[\text{Simplify}[n/(m + 1)], 0] \ \&\& \ \text{!IntegerQ}[n]$
5882.  $\text{Int}[(a) + \text{Cosh}[(c) + (d) \cdot x^n] \cdot (b)]^p \cdot (e \cdot x)^m, x\_Symbol] \rightarrow \text{Simp}[e^{\text{IntPart}[m]} \cdot ((e \cdot x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \cdot \text{Int}[x^m \cdot (a + b \cdot \text{Cosh}[c + d \cdot x^n])^p, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{IGtQ}[\text{Simplify}[n/(m + 1)], 0] \ \&\& \ \text{!IntegerQ}[n]$
5883.  $\text{Int}[(e \cdot x)^m \cdot \text{Sinh}[(c) + (d) \cdot x^n], x\_Symbol] \rightarrow \text{Simp}[1/2 \cdot \text{Int}[(e \cdot x)^m \cdot E^{(c + d \cdot x^n)}, x], x] - \text{Simp}[1/2 \cdot \text{Int}[(e \cdot x)^m \cdot E^{(-c - d \cdot x^n)}, x], x] /;$   $\text{FreeQ}[\{c, d, e, m, n\}, x]$
5884.  $\text{Int}[\text{Cosh}[(c) + (d) \cdot x^n] \cdot (e \cdot x)^m, x\_Symbol] \rightarrow \text{Simp}[1/2 \cdot \text{Int}[(e \cdot x)^m \cdot E^{(c + d \cdot x^n)}, x], x] + \text{Simp}[1/2 \cdot \text{Int}[(e \cdot x)^m \cdot E^{(-c - d \cdot x^n)}, x], x] /;$   $\text{FreeQ}[\{c, d, e, m, n\}, x]$
5885.  $\text{Int}[(e \cdot x)^m \cdot ((a) + (b) \cdot \text{Sinh}[(c) + (d) \cdot x^n])^p, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e \cdot x)^m \cdot (a + b \cdot \text{Sinh}[c + d \cdot x^n])^p, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
5886.  $\text{Int}[(a) + \text{Cosh}[(c) + (d) \cdot x^n] \cdot (b)]^p \cdot (e \cdot x)^m, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e \cdot x)^m \cdot (a + b \cdot \text{Cosh}[c + d \cdot x^n])^p, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
5887.  $\text{Int}[x^m \cdot ((a) + (b) \cdot \text{Sinh}[(c) + (d) \cdot u^n])^p, x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1]^{(m + 1)} \cdot \text{Subst}[\text{Int}[(x - \text{Coefficient}[u, x, 0])^m \cdot (a + b \cdot \text{Sinh}[c + d \cdot x^n])^p, x], x, u], x] /;$   $\text{FreeQ}[\{a, b, c, d, n, p\}, x] \ \&\& \ \text{LinearQ}[u, x] \ \&\& \ \text{NeQ}[u, x] \ \&\& \ \text{IntegerQ}[m]$
5888.  $\text{Int}[(a) + \text{Cosh}[(c) + (d) \cdot u^n] \cdot (b)]^p \cdot x^m, x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1]^{(m + 1)} \cdot \text{Subst}[\text{Int}[(x - \text{Coefficient}[u, x, 0])^m \cdot (a + b \cdot \text{Cosh}[c + d \cdot x^n])^p, x], x, u], x] /;$   $\text{FreeQ}[\{a$

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, b, c, d, n, p}, x] && LinearQ[u, x] && NeQ[u, x] && IntegerQ[m]

5889. Int[((e_.)*(x_))^(m_.)*((a_.) + (b_.)*Sinh[(c_.) + (d_.)*(u_)^(n_)])^(p_.), x_Symbol]
 := Unintegrable[(e*x)^m*(a + b*Sinh[c + d*u^n])^p, x]
 /; FreeQ[{a, b, c, d, e, m, n, p}, x] && LinearQ[u, x]

5890. Int[((a_.) + Cosh[(c_.) + (d_.)*(u_)^(n_)])*(b_.))^(p_.)*((e_.)*(x_))^(m_.), x_Symbol]
 := Unintegrable[(e*x)^m*(a + b*Cosh[c + d*u^n])^p, x]
 /; FreeQ[{a, b, c, d, e, m, n, p}, x] && LinearQ[u, x]

5891. Int[((e_.)*(x_))^(m_.)*((a_.) + (b_.)*Sinh[u_])^(p_.), x_Symbol] := Int
 [(e*x)^m*(a + b*Sinh[ExpandToSum[u, x]])^p, x] /; FreeQ[{a, b, e, m, p}, x]
 && BinomialQ[u, x] && !BinomialMatchQ[u, x]

5892. Int[((a_.) + Cosh[u_]*(b_.))^(p_.)*((e_.)*(x_))^(m_.), x_Symbol] := Int
 [(e*x)^m*(a + b*Cosh[ExpandToSum[u, x]])^p, x] /; FreeQ[{a, b, e, m, p}, x]
 && BinomialQ[u, x] && !BinomialMatchQ[u, x]

5893. Int[Cosh[(a_.) + (b_.)*(x_)^(n_.)]*(x_)^(m_.)*Sinh[(a_.) + (b_.)*(x_)^(n_.)]^(p_.), x_Symbol]
 := Simp[Sinh[a + b*x^n]^(p + 1)/(b*n*(p + 1)), x] /; FreeQ[{a, b, m, n, p}, x]
 && EqQ[m, n - 1] && NeQ[p, -1]

5894. Int[Cosh[(a_.) + (b_.)*(x_)^(n_.)]^(p_.)*(x_)^(m_.)*Sinh[(a_.) + (b_.)*(x_)^(n_.)], x_Symbol]
 := Simp[Cosh[a + b*x^n]^(p + 1)/(b*n*(p + 1)), x] /; FreeQ[{a, b, m, n, p}, x]
 && EqQ[m, n - 1] && NeQ[p, -1]

5895. Int[Cosh[(a_.) + (b_.)*(x_)^(n_.)]*(x_)^(m_.)*Sinh[(a_.) + (b_.)*(x_)^(n_.)]^(p_.), x_Symbol]
 := Simp[x^(m - n + 1)*(Sinh[a + b*x^n]^(p + 1)/(b*n*(p + 1))), x] - Simp[(m - n + 1)/(b*n*(p + 1))
 Int[x^(m - n)*Sinh[a + b*x^n]^(p + 1), x], x] /; FreeQ[{a, b, p}, x] && LtQ[0, n, m + 1]
 && NeQ[p, -1]

5896. Int[Cosh[(a_.) + (b_.)*(x_)^(n_.)]^(p_.)*(x_)^(m_.)*Sinh[(a_.) + (b_.)*(x_)^(n_.)], x_Symbol]
 := Simp[x^(m - n + 1)*(Cosh[a + b*x^n]^(p + 1)/(b*n*(p + 1))), x] - Simp[(m - n + 1)/(b*n*(p + 1))
 Int[x^(m - n)*Cosh[a + b*x^n]^(p + 1), x], x] /; FreeQ[{a, b, p}, x] && LtQ[0, n, m + 1]

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- 1] && NeQ[p, -1]
5897.  $\text{Int}[\text{Sinh}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{(a + b*x + c*x^2)}, x], x] - \text{Simp}[1/2 \text{Int}[E^{(-a - b*x - c*x^2)}, x], x] /; \text{FreeQ}\{a, b, c\}, x]$
5898.  $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{(a + b*x + c*x^2)}, x], x] + \text{Simp}[1/2 \text{Int}[E^{(-a - b*x - c*x^2)}, x], x] /; \text{FreeQ}\{a, b, c\}, x]$
5899.  $\text{Int}[\text{Sinh}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Sinh}[a + b*x + c*x^2]^{n}, x], x] /; \text{FreeQ}\{a, b, c\}, x] \& \& \text{IGtQ}[n, 1]$
5900.  $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_) + (c_.)(x_)^2]^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Cosh}[a + b*x + c*x^2]^{n}, x], x] /; \text{FreeQ}\{a, b, c\}, x] \& \& \text{IGtQ}[n, 1]$
5901.  $\text{Int}[\text{Sinh}[v_]^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{Sinh}[\text{ExpandToSum}[v, x]]^{n}, x] /; \text{IGtQ}[n, 0] \&\& \text{QuadraticQ}[v, x] \&\& !\text{QuadraticMatchQ}[v, x]$
5902.  $\text{Int}[\text{Cosh}[v_]^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[\text{Cosh}[\text{ExpandToSum}[v, x]]^{n}, x] /; \text{IGtQ}[n, 0] \&\& \text{QuadraticQ}[v, x] \&\& !\text{QuadraticMatchQ}[v, x]$
5903.  $\text{Int}[\text{((d_.) + (e_.)(x_))} * \text{Sinh}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[e * (\text{Cosh}[a + b*x + c*x^2] / (2*c)), x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[b*e - 2*c*d, 0]$
5904.  $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_) + (c_.)(x_)^2] * \text{((d_.) + (e_.)(x_))}, x\_Symbol] \rightarrow \text{Simp}[e * (\text{Sinh}[a + b*x + c*x^2] / (2*c)), x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[b*e - 2*c*d, 0]$
5905.  $\text{Int}[\text{((d_.) + (e_.)(x_))} * \text{Sinh}[(a_.) + (b_.)(x_) + (c_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[e * (\text{Cosh}[a + b*x + c*x^2] / (2*c)), x] - \text{Simp}[(b*e - 2*c*d) / (2*c) \text{Int}[\text{Sinh}[a + b*x + c*x^2], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x]$

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] && NeQ[b*e - 2*c*d, 0]

5906. Int[Cosh[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]*((d_.) + (e_.)*(x_)), x_Symbol]
      :> Simp[e*(Sinh[a + b*x + c*x^2]/(2*c)), x] - Simp[(b*e - 2*c*d)/(2*c)
      Int[Cosh[a + b*x + c*x^2], x], x] /; FreeQ[{a, b, c, d, e}, x]
      && NeQ[b*e - 2*c*d, 0]

5907. Int[((d_.) + (e_.)*(x_))^(m_)*Sinh[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2],
      x_Symbol] :> Simp[e*(d + e*x)^(m - 1)*(Cosh[a + b*x + c*x^2]/(2*c)),
      x] - Simp[e^2*((m - 1)/(2*c)) Int[(d + e*x)^(m - 2)*Cosh[a + b*x +
      c*x^2], x], x] /; FreeQ[{a, b, c, d, e}, x] && GtQ[m, 1] && EqQ[b*e - 2
      *c*d, 0]

5908. Int[Cosh[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]*((d_.) + (e_.)*(x_))^(m_),
      x_Symbol] :> Simp[e*(d + e*x)^(m - 1)*(Sinh[a + b*x + c*x^2]/(2*c)),
      x] - Simp[e^2*((m - 1)/(2*c)) Int[(d + e*x)^(m - 2)*Sinh[a + b*x +
      c*x^2], x], x] /; FreeQ[{a, b, c, d, e}, x] && GtQ[m, 1] && EqQ[b*e - 2
      *c*d, 0]

5909. Int[((d_.) + (e_.)*(x_))^(m_)*Sinh[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2],
      x_Symbol] :> Simp[e*(d + e*x)^(m - 1)*(Cosh[a + b*x + c*x^2]/(2*c)),
      x] + (-Simp[(b*e - 2*c*d)/(2*c) Int[(d + e*x)^(m - 1)*Sinh[a + b*x +
      c*x^2], x], x] - Simp[e^2*((m - 1)/(2*c)) Int[(d + e*x)^(m - 2)*Cos
      h[a + b*x + c*x^2], x], x]) /; FreeQ[{a, b, c, d, e}, x] && GtQ[m, 1]
      && NeQ[b*e - 2*c*d, 0]

5910. Int[Cosh[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]*((d_.) + (e_.)*(x_))^(m_),
      x_Symbol] :> Simp[e*(d + e*x)^(m - 1)*(Sinh[a + b*x + c*x^2]/(2*c)),
      x] + (-Simp[(b*e - 2*c*d)/(2*c) Int[(d + e*x)^(m - 1)*Cosh[a + b*x +
      c*x^2], x], x] - Simp[e^2*((m - 1)/(2*c)) Int[(d + e*x)^(m - 2)*Sin
      h[a + b*x + c*x^2], x], x]) /; FreeQ[{a, b, c, d, e}, x] && GtQ[m, 1]
      && NeQ[b*e - 2*c*d, 0]

5911. Int[((d_.) + (e_.)*(x_))^(m_)*Sinh[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2],
      x_Symbol] :> Simp[(d + e*x)^(m + 1)*(Sinh[a + b*x + c*x^2]/(e*(m + 1)
      )), x] - Simp[2*(c/(e^2*(m + 1))) Int[(d + e*x)^(m + 2)*Cosh[a + b*x
      + c*x^2], x], x] /; FreeQ[{a, b, c, d, e}, x] && LtQ[m, -1] && EqQ[b*

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$e - 2*c*d, 0]$

5912. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]*((d_.) + (e_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(d + e*x)^{(m + 1)}*(\text{Cosh}[a + b*x + c*x^2]/(e*(m + 1))), x] - \text{Simp}[2*(c/(e^2*(m + 1))) \text{Int}[(d + e*x)^{(m + 2)}*\text{Sinh}[a + b*x + c*x^2], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{LtQ}[m, -1] \&\& \text{EqQ}[b*e - 2*c*d, 0]$

5913. $\text{Int}[((d_.) + (e_.)*(x_))^{(m_.)}*\text{Sinh}[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(d + e*x)^{(m + 1)}*(\text{Sinh}[a + b*x + c*x^2]/(e*(m + 1))), x] + (-\text{Simp}[(b*e - 2*c*d)/(e^2*(m + 1)) \text{Int}[(d + e*x)^{(m + 1)}*\text{Cosh}[a + b*x + c*x^2], x], x] - \text{Simp}[2*(c/(e^2*(m + 1))) \text{Int}[(d + e*x)^{(m + 2)}*\text{Cosh}[a + b*x + c*x^2], x], x]) /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[b*e - 2*c*d, 0]$

5914. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]*((d_.) + (e_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(d + e*x)^{(m + 1)}*(\text{Cosh}[a + b*x + c*x^2]/(e*(m + 1))), x] + (-\text{Simp}[(b*e - 2*c*d)/(e^2*(m + 1)) \text{Int}[(d + e*x)^{(m + 1)}*\text{Sinh}[a + b*x + c*x^2], x], x] - \text{Simp}[2*(c/(e^2*(m + 1))) \text{Int}[(d + e*x)^{(m + 2)}*\text{Sinh}[a + b*x + c*x^2], x], x]) /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[b*e - 2*c*d, 0]$

5915. $\text{Int}[((d_.) + (e_.)*(x_))^{(m_.)}*\text{Sinh}[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2], x_Symbol] \rightarrow \text{Unintegrable}[(d + e*x)^m*\text{Sinh}[a + b*x + c*x^2], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x]$

5916. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]*((d_.) + (e_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(d + e*x)^m*\text{Cosh}[a + b*x + c*x^2], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x]$

5917. $\text{Int}[((d_.) + (e_.)*(x_))^{(m_.)}*\text{Sinh}[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(d + e*x)^m, \text{Sinh}[a + b*x + c*x^2]^n], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x\} \&\& \text{IGtQ}[n, 1]$

5918. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_) + (c_.)*(x_)^2]^{(n_.)}*((d_.) + (e_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(d + e*x)^m, \text{Cosh}[a + b*x + c*x^2]^n], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x\} \&\& \text{IGtQ}[n, 1]$

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*x^2]^n, x], x] /; FreeQ[{a, b, c, d, e, m}, x] && IGtQ[n, 1]

5919. Int[(u_)^(m_)*Sinh[v_]^(n_), x_Symbol] := Int[ExpandToSum[u, x]^m*Si
nh[ExpandToSum[v, x]]^n, x] /; FreeQ[m, x] && IGtQ[n, 0] && LinearQ[u,
x] && QuadraticQ[v, x] && !(LinearMatchQ[u, x] && QuadraticMatchQ[v,
x])

5920. Int[Cosh[v_]^(n_)*(u_)^(m_), x_Symbol] := Int[ExpandToSum[u, x]^m*Co
sh[ExpandToSum[v, x]]^n, x] /; FreeQ[m, x] && IGtQ[n, 0] && LinearQ[u,
x] && QuadraticQ[v, x] && !(LinearMatchQ[u, x] && QuadraticMatchQ[v,
x])

5921. Int[(u_)^(m_)*((a_) + (b_)*Tanh[v_])^(n_), x_Symbol] := Int[Expand
ToSum[u, x]^m*(a + b*Tanh[ExpandToSum[v, x]])^n, x] /; FreeQ[{a, b, m,
n}, x] && LinearQ[{u, v}, x] && !LinearMatchQ[{u, v}, x]

5922. Int[((a_) + Coth[v_]*(b_))^(n_)*(u_)^(m_), x_Symbol] := Int[Expand
ToSum[u, x]^m*(a + b*Coth[ExpandToSum[v, x]])^n, x] /; FreeQ[{a, b, m,
n}, x] && LinearQ[{u, v}, x] && !LinearMatchQ[{u, v}, x]

5923. Int[((a_) + (b_)*Tanh[(c_) + (d_)*(x_)^(n_)])^(p_), x_Symbol] :=
Simp[1/n Subst[Int[x^(1/n - 1)*(a + b*Tanh[c + d*x])^p, x], x, x^n],
x] /; FreeQ[{a, b, c, d, p}, x] && IGtQ[1/n, 0] && IntegerQ[p]

5924. Int[((a_) + Coth[(c_) + (d_)*(x_)^(n_)])*(b_))^(p_), x_Symbol] :=
Simp[1/n Subst[Int[x^(1/n - 1)*(a + b*Coth[c + d*x])^p, x], x, x^n],
x] /; FreeQ[{a, b, c, d, p}, x] && IGtQ[1/n, 0] && IntegerQ[p]

5925. Int[((a_) + (b_)*Tanh[(c_) + (d_)*(x_)^(n_)])^(p_), x_Symbol] :=
Simp[Integral[(a + b*Tanh[c + d*x^n])^p, x], x] /; FreeQ[{a, b, c, d,
n, p}, x]

5926. Int[((a_) + Coth[(c_) + (d_)*(x_)^(n_)])*(b_))^(p_), x_Symbol] :=
Simp[Integral[(a + b*Coth[c + d*x^n])^p, x], x] /; FreeQ[{a, b, c, d,
n, p}, x]

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5927.  $\text{Int}[(a_.) + (b_.)\text{Tanh}[(c_.) + (d_.)(u_)^{(n_.)}])^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(a + b*\text{Tanh}[c + d*x^n])^p, x], x, u], x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
5928.  $\text{Int}[(a_.) + \text{Coth}[(c_.) + (d_.)(u_)^{(n_.)}]*(b_.)]^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/\text{Coefficient}[u, x, 1] \text{ Subst}[\text{Int}[(a + b*\text{Coth}[c + d*x^n])^p, x], x, u], x] /; \text{FreeQ}[\{a, b, c, d, n, p\}, x] \&\& \text{LinearQ}[u, x] \&\& \text{NeQ}[u, x]$
5929.  $\text{Int}[(a_.) + (b_.)\text{Tanh}[u_]]^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[(a + b*\text{Tanh}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
5930.  $\text{Int}[(a_.) + \text{Coth}[u_]*(b_.)]^{(p_.)}, x\_Symbol] \rightarrow \text{Int}[(a + b*\text{Coth}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
5931.  $\text{Int}[(x_)^{(m_.)}*((a_.) + (b_.)\text{Tanh}[(c_.) + (d_.)(x_)^{(n_.)}])^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n] - 1)*(a + b*\text{Tanh}[c + d*x])^p, x}, x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{IntegerQ}[p]$
5932.  $\text{Int}[(a_.) + \text{Coth}[(c_.) + (d_.)(x_)^{(n_.)}]*(b_.)]^{(p_.)}(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{Int}[x^{(\text{Simplify}[(m + 1)/n] - 1)*(a + b*\text{Coth}[c + d*x])^p, x}, x, x^n], x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{IntegerQ}[p]$
5933.  $\text{Int}[(x_)^{(m_.)}*\text{Tanh}[(c_.) + (d_.)(x_)^{(n_.)}]^2, x\_Symbol] \rightarrow \text{Simp}[(-x^{(m - n + 1)}*(\text{Tanh}[c + d*x^n]/(d*n)), x] + (\text{Int}[x^m, x] + \text{Simp}[(m - n + 1)/(d*n)*\text{Int}[x^{(m - n)}*\text{Tanh}[c + d*x^n], x], x]) /; \text{FreeQ}[\{c, d, m, n\}, x]$
5934.  $\text{Int}[\text{Coth}[(c_.) + (d_.)(x_)^{(n_.)}]^2*(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(-x^{(m - n + 1)}*(\text{Coth}[c + d*x^n]/(d*n)), x] + (\text{Int}[x^m, x] + \text{Simp}[(m - n + 1)/(d*n)*\text{Int}[x^{(m - n)}*\text{Coth}[c + d*x^n], x], x]) /; \text{FreeQ}[\{c, d, m,$

- $n\}$ ,  $x]$
5935.  $\text{Int}[(x\_)^{(m\_)}*((a\_)+ (b\_)*\text{Tanh}[(c\_)+ (d\_)*(x\_)^{(n\_)}])^{(p\_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[\text{Integral}[x^m*(a + b*\text{Tanh}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x]$
5936.  $\text{Int}[(a\_)+ \text{Coth}[(c\_)+ (d\_)*(x\_)^{(n\_)}]*(b\_)]^{(p\_)}*(x\_)^{(m\_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[\text{Integral}[x^m*(a + b*\text{Coth}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x]$
5937.  $\text{Int}[(e_)*(x_)^{(m_)}*((a_)+ (b_)*\text{Tanh}[(c_)+ (d_)*(x_)^{(n_)}])^{(p_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}*((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*\text{Tanh}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
5938.  $\text{Int}[(a_)+ \text{Coth}[(c_)+ (d_)*(x_)^{(n_)}]*(b_)]^{(p_)}*((e_)*(x_))^{(m_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[e^{\text{IntPart}[m]}*((e*x)^{\text{FracPart}[m]}/x^{\text{FracPart}[m]}) \text{Int}[x^m*(a + b*\text{Coth}[c + d*x^n])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$
5939.  $\text{Int}[(e_)*(x_)^{(m_)}*((a_)+ (b_)*\text{Tanh}[u_])^{(p_)}, x\_ \text{Symbol}] \rightarrow \text{Int}[(e*x)^m*(a + b*\text{Tanh}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, e, m, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
5940.  $\text{Int}[(a_)+ \text{Coth}[u_]*(b_)]^{(p_)}*((e_)*(x_))^{(m_)}, x\_ \text{Symbol}] \rightarrow \text{Int}[(e*x)^m*(a + b*\text{Coth}[\text{ExpandToSum}[u, x]])^p, x] /; \text{FreeQ}[\{a, b, e, m, p\}, x] \&\& \text{BinomialQ}[u, x] \&\& !\text{BinomialMatchQ}[u, x]$
5941.  $\text{Int}[(x_)^{(m_)}*\text{Sech}[(a_)+ (b_)*(x_)^{(n_)}])^{(p_)}*\text{Tanh}[(a_)+ (b_)*(x_)^{(n_)}])^{(q_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(-x^{(m-n+1)})*(\text{Sech}[a + b*x^n]^p/(b*n*p)), x] + \text{Simp}[(m-n+1)/(b*n*p) \text{Int}[x^{(m-n)}*\text{Sech}[a + b*x^n]^p, x], x] /; \text{FreeQ}[\{a, b, p\}, x] \&\& \text{RationalQ}[m] \&\& \text{IntegerQ}[n] \&\& \text{GeQ}[m-n, 0] \&\& \text{EqQ}[q, 1]$
5942.  $\text{Int}[\text{Coth}[(a_)+ (b_)*(x_)^{(n_)}])^{(q_)}*\text{Csch}[(a_)+ (b_)*(x_)^{(n_)}])^{(p_)}*(x_)^{(m_)}, x\_ \text{Symbol}] \rightarrow \text{Simp}[(-x^{(m-n+1)})*(\text{Csch}[a + b*x^n]$

- $$\int x^p/(b^n x^p) dx + \text{Simp}[(m - n + 1)/(b^n x^p) \int x^{m-n} \text{Csch}[a + b x^n]^p dx, x] /; \text{FreeQ}\{a, b, p, x\} \ \&\& \ \text{RationalQ}[m] \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{GeQ}[m - n, 0] \ \&\& \ \text{EqQ}[q, 1]$$
5943.  $\text{Int}[\text{Tanh}[a + b x + c x^2]^n, x\_Symbol] \rightarrow \text{Simp}[\text{Integral}[\text{Tanh}[a + b x + c x^2]^n, x], x] /; \text{FreeQ}\{a, b, c, n, x\}$
5944.  $\text{Int}[\text{Coth}[a + b x + c x^2]^n, x\_Symbol] \rightarrow \text{Simp}[\text{Integral}[\text{Coth}[a + b x + c x^2]^n, x], x] /; \text{FreeQ}\{a, b, c, n, x\}$
5945.  $\text{Int}[(d + e x) \text{Tanh}[a + b x + c x^2], x\_Symbol] \rightarrow \text{Simp}[e \text{Log}[\text{Cosh}[a + b x + c x^2]]/(2c), x] + \text{Simp}[(2cd - b e)/(2c) \int \text{Tanh}[a + b x + c x^2], x] /; \text{FreeQ}\{a, b, c, d, e, x\}$
5946.  $\text{Int}[\text{Coth}[a + b x + c x^2] (d + e x), x\_Symbol] \rightarrow \text{Simp}[e \text{Log}[\text{Sinh}[a + b x + c x^2]]/(2c), x] + \text{Simp}[(2cd - b e)/(2c) \int \text{Coth}[a + b x + c x^2], x] /; \text{FreeQ}\{a, b, c, d, e, x\}$
5947.  $\text{Int}[(d + e x)^m \text{Tanh}[a + b x + c x^2]^n, x\_Symbol] \rightarrow \text{Simp}[\text{Integral}[(d + e x)^m \text{Tanh}[a + b x + c x^2]^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, x\}$
5948.  $\text{Int}[\text{Coth}[a + b x + c x^2]^n (d + e x)^m, x\_Symbol] \rightarrow \text{Simp}[\text{Integral}[(d + e x)^m \text{Coth}[a + b x + c x^2]^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, x\}$
5949.  $\text{Int}[(u)^m \text{Sech}[v]^n, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m \text{Sech}[\text{ExpandToSum}[v, x]]^n, x] /; \text{FreeQ}\{m, n, x\} \ \&\& \ \text{LinearQ}\{u, v, x\} \ \&\& \ \text{!LinearMatchQ}\{u, v, x\}$
5950.  $\text{Int}[\text{Csch}[v]^n (u)^m, x\_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m \text{Csch}[\text{ExpandToSum}[v, x]]^n, x] /; \text{FreeQ}\{m, n, x\} \ \&\& \ \text{LinearQ}\{u, v, x\} \ \&\& \ \text{!LinearMatchQ}\{u, v, x\}$

5951. `Int[((a_.) + (b_.)*Sech[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x_Symbol] :=  
Simp[1/n Subst[Int[x^(1/n - 1)*(a + b*Sech[c + d*x])^p, x], x, x^n],  
x] /; FreeQ[{a, b, c, d, p}, x] && IGtQ[1/n, 0] && IntegerQ[p]`
5952. `Int[((a_.) + Csch[(c_.) + (d_.)*(x_)^(n_)])*(b_.))^(p_.), x_Symbol] :=  
Simp[1/n Subst[Int[x^(1/n - 1)*(a + b*Csch[c + d*x])^p, x], x, x^n],  
x] /; FreeQ[{a, b, c, d, p}, x] && IGtQ[1/n, 0] && IntegerQ[p]`
5953. `Int[((a_.) + (b_.)*Sech[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x_Symbol] :=  
Unintegrable[(a + b*Sech[c + d*x^n])^p, x] /; FreeQ[{a, b, c, d, n, p},  
x]`
5954. `Int[((a_.) + Csch[(c_.) + (d_.)*(x_)^(n_)])*(b_.))^(p_.), x_Symbol] :=  
Unintegrable[(a + b*Csch[c + d*x^n])^p, x] /; FreeQ[{a, b, c, d, n, p},  
x]`
5955. `Int[((a_.) + (b_.)*Sech[(c_.) + (d_.)*(u_)^(n_)])^(p_.), x_Symbol] :=  
Simp[1/Coefficient[u, x, 1] Subst[Int[(a + b*Sech[c + d*x^n])^p, x],  
x, u], x] /; FreeQ[{a, b, c, d, n, p}, x] && LinearQ[u, x] && NeQ[u,  
x]`
5956. `Int[((a_.) + Csch[(c_.) + (d_.)*(u_)^(n_)])*(b_.))^(p_.), x_Symbol] :=  
Simp[1/Coefficient[u, x, 1] Subst[Int[(a + b*Csch[c + d*x^n])^p, x],  
x, u], x] /; FreeQ[{a, b, c, d, n, p}, x] && LinearQ[u, x] && NeQ[u,  
x]`
5957. `Int[((a_.) + (b_.)*Sech[u_])^(p_.), x_Symbol] := Int[(a + b*Sech[Expan  
dToSum[u, x]])^p, x] /; FreeQ[{a, b, p}, x] && BinomialQ[u, x] && !Bi  
nomialMatchQ[u, x]`
5958. `Int[((a_.) + Csch[u_])*(b_.))^(p_.), x_Symbol] := Int[(a + b*Csch[Expan  
dToSum[u, x]])^p, x] /; FreeQ[{a, b, p}, x] && BinomialQ[u, x] && !Bi  
nomialMatchQ[u, x]`
5959. `Int[(x_)^(m_.)*((a_.) + (b_.)*Sech[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x_  
Symbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*Sec`

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h[c + d*x]^p, x], x, x^n], x] /; FreeQ[{a, b, c, d, m, n, p}, x] && I
GtQ[Simplify[(m + 1)/n], 0] && IntegerQ[p]

5960. Int[((a_.) + Csch[(c_.) + (d_.)*(x_)^(n_)])*(b_.))^(p_.)*(x_)^(m_.), x_
Symbol] :> Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*Csc
h[c + d*x]^p, x], x, x^n], x] /; FreeQ[{a, b, c, d, m, n, p}, x] && I
GtQ[Simplify[(m + 1)/n], 0] && IntegerQ[p]

5961. Int[(x_)^(m_.)*((a_.) + (b_.)*Sech[(c_.) + (d_.)*(x_)^(n_)])^(p_.), x_
Symbol] :> Unintegrable[x^m*(a + b*Sech[c + d*x^n])^p, x] /; FreeQ[{a,
b, c, d, m, n, p}, x]

5962. Int[((a_.) + Csch[(c_.) + (d_.)*(x_)^(n_)])*(b_.))^(p_.)*(x_)^(m_.), x_
Symbol] :> Unintegrable[x^m*(a + b*Csch[c + d*x^n])^p, x] /; FreeQ[{a,
b, c, d, m, n, p}, x]

5963. Int[((e_)*(x_))^(m_.)*((a_.) + (b_.)*Sech[(c_.) + (d_.)*(x_)^(n_)])^(p
_.), x_Symbol] :> Simp[e^IntPart[m]*((e*x)^FracPart[m]/x^FracPart[m])
Int[x^m*(a + b*Sech[c + d*x^n])^p, x], x] /; FreeQ[{a, b, c, d, e, m
, n, p}, x]

5964. Int[((a_.) + Csch[(c_.) + (d_.)*(x_)^(n_)])*(b_.))^(p_.)*((e_)*(x_))^(m
_.), x_Symbol] :> Simp[e^IntPart[m]*((e*x)^FracPart[m]/x^FracPart[m])
Int[x^m*(a + b*Csch[c + d*x^n])^p, x], x] /; FreeQ[{a, b, c, d, e, m
, n, p}, x]

5965. Int[((e_)*(x_))^(m_.)*((a_.) + (b_.)*Sech[u_])^(p_.), x_Symbol] :> Int
[(e*x)^m*(a + b*Sech[ExpandToSum[u, x]])^p, x] /; FreeQ[{a, b, e, m, p
}, x] && BinomialQ[u, x] && !BinomialMatchQ[u, x]

5966. Int[((a_.) + Csch[u_]*(b_.))^(p_.)*((e_)*(x_))^(m_.), x_Symbol] :> Int
[(e*x)^m*(a + b*Csch[ExpandToSum[u, x]])^p, x] /; FreeQ[{a, b, e, m, p
}, x] && BinomialQ[u, x] && !BinomialMatchQ[u, x]

5967. Int[(x_)^(m_.)*Sech[(a_.) + (b_.)*(x_)^(n_.)]^(p_) * Sinh[(a_.) + (b_.)*
(x_)^(n_.)], x_Symbol] :> Simp[(-x^(m - n + 1))*(Sech[a + b*x^n]^p -

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- $1)/(b*n*(p - 1))), x] + \text{Simp}[(m - n + 1)/(b*n*(p - 1)) \text{ Int}[x^{(m - n)}$
 $*\text{Sech}[a + b*x^n]^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{IntegerQ}[n]$
 $\&\& \text{GeQ}[m - n, 0] \&\& \text{NeQ}[p, 1]$
5968. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_)^{(n_.)}]*\text{Csch}[(a_.) + (b_.)*(x_)^{(n_.)}]^{(p_.)}$
 $*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-x^{(m - n + 1)})*(\text{Csch}[a + b*x^n]^{(p - 1)})$
 $/(b*n*(p - 1))), x] + \text{Simp}[(m - n + 1)/(b*n*(p - 1)) \text{ Int}[x^{(m - n)}$
 $*\text{Csch}[a + b*x^n]^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, p\}, x] \&\& \text{IntegerQ}[n]$
 $\&\& \text{GeQ}[m - n, 0] \&\& \text{NeQ}[p, 1]$
5969. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_)]*((c_.) + (d_.)*(x_))^{(m_.)}*\text{Sinh}[(a_.) + ($
 $b_.)*(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(c + d*x)^m*(\text{Sinh}[a + b*x]^{(n + 1)})$
 $/(b*(n + 1))), x] - \text{Simp}[d*(m/(b*(n + 1))) \text{ Int}[(c + d*x)^{(m - 1)}*\text{Sin}$
 $h[a + b*x]^{(n + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x] \&\& \text{IGtQ}[m, 0]$
 $\&\& \text{NeQ}[n, -1]$
5970. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_)]^{(n_.)}*((c_.) + (d_.)*(x_))^{(m_.)}*\text{Sinh}[(a_$
 $.) + (b_.)*(x_)], x_Symbol] \rightarrow \text{Simp}[(c + d*x)^m*(\text{Cosh}[a + b*x]^{(n + 1)})$
 $/(b*(n + 1))), x] - \text{Simp}[d*(m/(b*(n + 1))) \text{ Int}[(c + d*x)^{(m - 1)}*\text{Cos}$
 $h[a + b*x]^{(n + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x] \&\& \text{IGtQ}[m, 0]$
 $\&\& \text{NeQ}[n, -1]$
5971. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_)]^{(p_.)}*((c_.) + (d_.)*(x_))^{(m_.)}*\text{Sinh}[(a_$
 $.) + (b_.)*(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(c + d*x)^m,$
 $\text{Sinh}[a + b*x]^{(n)}*\text{Cosh}[a + b*x]^p, x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x]$
 $\&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
5972. $\text{Int}[((c_.) + (d_.)*(x_))^{(m_.)}*\text{Sinh}[(a_.) + (b_.)*(x_)]^{(n_.)}*\text{Tanh}[(a_$
 $.) + (b_.)*(x_)]^{(p_.)}, x_Symbol] \rightarrow \text{Int}[(c + d*x)^m*\text{Sinh}[a + b*x]^{(n)}*\text{T}$
 $anh[a + b*x]^{(p - 2)}, x] - \text{Int}[(c + d*x)^m*\text{Sinh}[a + b*x]^{(n - 2)}*\text{Tanh}[$
 $a + b*x]^p, x] /; \text{FreeQ}\{a, b, c, d, m\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
 $]$
5973. $\text{Int}[\text{Cosh}[(a_.) + (b_.)*(x_)]^{(n_.)}*\text{Coth}[(a_.) + (b_.)*(x_)]^{(p_.)}*((c_$
 $.) + (d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(c + d*x)^m*\text{Cosh}[a + b*x]^{(n)}*\text{C}$
 $oth[a + b*x]^{(p - 2)}, x] + \text{Int}[(c + d*x)^m*\text{Cosh}[a + b*x]^{(n - 2)}*\text{Coth}[$
 $a + b*x]^p, x] /; \text{FreeQ}\{a, b, c, d, m\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$

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5974. $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{m_{.}} \text{Sech}[(a_{.}) + (b_{.})(x_{.})]^{n_{.}} \text{Tanh}[(a_{.}) + (b_{.})(x_{.})]^{p_{.}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c + d*x)^m * (\text{Sech}[a + b*x]^n / (b^n)), x] + \text{Simp}[d*(m/(b^n)) \text{Int}[(c + d*x)^{m-1} * \text{Sech}[a + b*x]^n, x], x] /;$ $\text{FreeQ}\{a, b, c, d, n\}, x\} \ \&\& \ \text{EqQ}[p, 1] \ \&\& \ \text{GtQ}[m, 0]$

5975. $\text{Int}[\text{Coth}[(a_{.}) + (b_{.})(x_{.})]^{p_{.}} \text{Csch}[(a_{.}) + (b_{.})(x_{.})]^{n_{.}} \left((c_{.}) + (d_{.})(x_{.})\right)^{m_{.}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c + d*x)^m * (\text{Csch}[a + b*x]^n / (b^n)), x] + \text{Simp}[d*(m/(b^n)) \text{Int}[(c + d*x)^{m-1} * \text{Csch}[a + b*x]^n, x], x] /;$ $\text{FreeQ}\{a, b, c, d, n\}, x\} \ \&\& \ \text{EqQ}[p, 1] \ \&\& \ \text{GtQ}[m, 0]$

5976. $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{m_{.}} \text{Sech}[(a_{.}) + (b_{.})(x_{.})]^{2n_{.}} \text{Tanh}[(a_{.}) + (b_{.})(x_{.})]^{n_{.}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(c + d*x)^m * (\text{Tanh}[a + b*x]^{n+1} / (b*(n+1))), x] - \text{Simp}[d*(m/(b*(n+1))) \text{Int}[(c + d*x)^{m-1} * \text{Tanh}[a + b*x]^{n+1}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, n\}, x\} \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{NeQ}[n, -1]$

5977. $\text{Int}[\text{Coth}[(a_{.}) + (b_{.})(x_{.})]^{n_{.}} \text{Csch}[(a_{.}) + (b_{.})(x_{.})]^{2m_{.}} \left((c_{.}) + (d_{.})(x_{.})\right)^{m_{.}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-c + d*x)^m * (\text{Coth}[a + b*x]^{n+1} / (b*(n+1))), x] + \text{Simp}[d*(m/(b*(n+1))) \text{Int}[(c + d*x)^{m-1} * \text{Coth}[a + b*x]^{n+1}, x], x] /;$ $\text{FreeQ}\{a, b, c, d, n\}, x\} \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{NeQ}[n, -1]$

5978. $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{m_{.}} \text{Sech}[(a_{.}) + (b_{.})(x_{.})] \text{Tanh}[(a_{.}) + (b_{.})(x_{.})]^{p_{.}}, x_{\text{Symbol}}] \rightarrow \text{Int}[(c + d*x)^m * \text{Sech}[a + b*x] * \text{Tanh}[a + b*x]^{p-2}, x] - \text{Int}[(c + d*x)^m * \text{Sech}[a + b*x]^3 * \text{Tanh}[a + b*x]^{p-2}, x] /;$ $\text{FreeQ}\{a, b, c, d, m\}, x\} \ \&\& \ \text{IGtQ}[p/2, 0]$

5979. $\text{Int}[\left((c_{.}) + (d_{.})(x_{.})\right)^{m_{.}} \text{Sech}[(a_{.}) + (b_{.})(x_{.})]^{n_{.}} \text{Tanh}[(a_{.}) + (b_{.})(x_{.})]^{p_{.}}, x_{\text{Symbol}}] \rightarrow \text{Int}[(c + d*x)^m * \text{Sech}[a + b*x]^n * \text{Tanh}[a + b*x]^{p-2}, x] - \text{Int}[(c + d*x)^m * \text{Sech}[a + b*x]^{n+2} * \text{Tanh}[a + b*x]^{p-2}, x] /;$ $\text{FreeQ}\{a, b, c, d, m, n\}, x\} \ \&\& \ \text{IGtQ}[p/2, 0]$

5980. $\text{Int}[\text{Coth}[(a_{.}) + (b_{.})(x_{.})]^{p_{.}} \text{Csch}[(a_{.}) + (b_{.})(x_{.})] \left((c_{.}) + (d_{.})(x_{.})\right)^{m_{.}}, x_{\text{Symbol}}] \rightarrow \text{Int}[(c + d*x)^m * \text{Csch}[a + b*x] * \text{Coth}[a + b$

- $x]^{(p-2)}, x] + \text{Int}[(c + d*x)^m * \text{Csch}[a + b*x]^3 * \text{Coth}[a + b*x]^{(p-2)}, x] /;$
 $\text{FreeQ}\{a, b, c, d, m\}, x\} \&\& \text{IGtQ}[p/2, 0]$
5981. $\text{Int}[\text{Coth}[(a_.) + (b_.)*(x_.)]^{(p_.)} * \text{Csch}[(a_.) + (b_.)*(x_.)]^{(n_.)} * ((c_.) + (d_.)*(x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(c + d*x)^m * \text{Csch}[a + b*x]^n * \text{Coth}[a + b*x]^{(p-2)}, x] + \text{Int}[(c + d*x)^m * \text{Csch}[a + b*x]^{(n+2)} * \text{Coth}[a + b*x]^{(p-2)}, x] /;$
 $\text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& \text{IGtQ}[p/2, 0]$
5982. $\text{Int}[(c_.) + (d_.)*(x_.)]^{(m_.)} * \text{Sech}[(a_.) + (b_.)*(x_.)]^{(n_.)} * \text{Tanh}[(a_.) + (b_.)*(x_.)]^{(p_.)}, x_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[\text{Sech}[a + b*x]^n * \text{Tanh}[a + b*x]^p, x]\}, \text{Simp}[(c + d*x)^m \int u, x] - \text{Simp}[d*m \int (c + d*x)^{(m-1)} * u, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, n, p\}, x\} \&\& \text{IGtQ}[m, 0]$
 $\&\& (\text{IntegerQ}[n/2] \parallel \text{IntegerQ}[(p-1)/2])$
5983. $\text{Int}[\text{Coth}[(a_.) + (b_.)*(x_.)]^{(p_.)} * \text{Csch}[(a_.) + (b_.)*(x_.)]^{(n_.)} * ((c_.) + (d_.)*(x_.))^{(m_.)}, x_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[\text{Csch}[a + b*x]^n * \text{Coth}[a + b*x]^p, x]\}, \text{Simp}[(c + d*x)^m \int u, x] - \text{Simp}[d*m \int (c + d*x)^{(m-1)} * u, x], x] /;$
 $\text{FreeQ}\{a, b, c, d, n, p\}, x\} \&\& \text{IGtQ}[m, 0]$
 $\&\& (\text{IntegerQ}[n/2] \parallel \text{IntegerQ}[(p-1)/2])$
5984. $\text{Int}[\text{Csch}[(a_.) + (b_.)*(x_.)]^{(n_.)} * ((c_.) + (d_.)*(x_.))^{(m_.)} * \text{Sech}[(a_.) + (b_.)*(x_.)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[2^n \int (c + d*x)^m * \text{Csch}[2*a + 2*b*x]^n, x], x] /;$
 $\text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{RationalQ}[m] \&\& \text{IntegerQ}[n]$
5985. $\text{Int}[\text{Csch}[(a_.) + (b_.)*(x_.)]^{(n_.)} * ((c_.) + (d_.)*(x_.))^{(m_.)} * \text{Sech}[(a_.) + (b_.)*(x_.)]^{(p_.)}, x_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[\text{Csch}[a + b*x]^n * \text{Sech}[a + b*x]^p, x]\}, \text{Simp}[(c + d*x)^m \int u, x] - \text{Simp}[d*m \int (c + d*x)^{(m-1)} * u, x], x] /;$
 $\text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IntegersQ}[n, p] \&\& \text{GtQ}[m, 0] \&\& \text{NeQ}[n, p]$
5986. $\text{Int}[(u_.)^{(m_.)} * (F_)[v_]^{(n_.)} * (G_)[w_]^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandToSum}[u, x]^m * F[\text{ExpandToSum}[v, x]]^n * G[\text{ExpandToSum}[w, x]]^p, x] /;$
 $\text{FreeQ}\{m, n, p\}, x\} \&\& \text{HyperbolicQ}[F] \&\& \text{HyperbolicQ}[G] \&\& \text{EqQ}[v, w] \&\& \text{LinearQ}\{u, v, w\}, x\} \&\& \text{!LinearMatchQ}\{u, v, w\}, x\}$

5987. $\text{Int}[\text{Cosh}[(c_.) + (d_.)(x_)] * ((e_.) + (f_.)(x_))^{(m_.)} * ((a_.) + (b_.) * \text{Sinh}[(c_.) + (d_.)(x_)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(e + f*x)^m * ((a + b * \text{Sinh}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] - \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b * \text{Sinh}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
5988. $\text{Int}[(\text{Cosh}[(c_.) + (d_.)(x_)] * (b_.) + (a_.))^{(n_.)} * ((e_.) + (f_.)(x_))^{(m_.)} * \text{Sinh}[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^m * ((a + b * \text{Cosh}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] - \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b * \text{Cosh}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
5989. $\text{Int}[(e_.) + (f_.)(x_)]^{(m_.)} * \text{Sech}[(c_.) + (d_.)(x_)]^2 * ((a_.) + (b_.) * \text{Tanh}[(c_.) + (d_.)(x_)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(e + f*x)^m * ((a + b * \text{Tanh}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] - \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b * \text{Tanh}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
5990. $\text{Int}[\text{Csch}[(c_.) + (d_.)(x_)]^2 * (\text{Coth}[(c_.) + (d_.)(x_)] * (b_.) + (a_.))^{(n_.)} * ((e_.) + (f_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-e + f*x)^m * ((a + b * \text{Coth}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] + \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b * \text{Coth}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
5991. $\text{Int}[(e_.) + (f_.)(x_)]^{(m_.)} * \text{Sech}[(c_.) + (d_.)(x_)] * ((a_.) + (b_.) * \text{Sech}[(c_.) + (d_.)(x_)] * \text{Tanh}[(c_.) + (d_.)(x_)]), x_Symbol] \rightarrow \text{Simp}[(-e + f*x)^m * ((a + b * \text{Sech}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] + \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b * \text{Sech}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$
5992. $\text{Int}[\text{Coth}[(c_.) + (d_.)(x_)] * \text{Csch}[(c_.) + (d_.)(x_)] * (\text{Csch}[(c_.) + (d_.)(x_)] * (b_.) + (a_.))^{(n_.)} * ((e_.) + (f_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-e + f*x)^m * ((a + b * \text{Csch}[c + d*x])^{(n + 1)} / (b*d*(n + 1))), x] + \text{Simp}[f*(m/(b*d*(n + 1))) \text{Int}[(e + f*x)^{(m - 1)} * (a + b * \text{Csch}[c + d*x])^{(n + 1)}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, n\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[n, -1]$

5993. $\text{Int}[(e_{.}) + (f_{.})(x_{.})]^{(m_{.})} \text{Sinh}[(a_{.}) + (b_{.})(x_{.})]^{(p_{.})} \text{Sinh}[(c_{.}) + (d_{.})(x_{.})]^{(q_{.})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e + f*x)^m, \text{Sinh}[a + b*x]^p \text{Sinh}[c + d*x]^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IGtQ}[q, 0] \ \&\& \ \text{IntegerQ}[m]$
5994. $\text{Int}[\text{Cosh}[(a_{.}) + (b_{.})(x_{.})]^{(p_{.})} \text{Cosh}[(c_{.}) + (d_{.})(x_{.})]^{(q_{.})} ((e_{.}) + (f_{.})(x_{.}))^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e + f*x)^m, \text{Cosh}[a + b*x]^p \text{Cosh}[c + d*x]^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IGtQ}[q, 0] \ \&\& \ \text{IntegerQ}[m]$
5995. $\text{Int}[\text{Cosh}[(c_{.}) + (d_{.})(x_{.})]^{(q_{.})} ((e_{.}) + (f_{.})(x_{.}))^{(m_{.})} \text{Sinh}[(a_{.}) + (b_{.})(x_{.})]^{(p_{.})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[(e + f*x)^m, \text{Sinh}[a + b*x]^p \text{Cosh}[c + d*x]^q, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IGtQ}[q, 0]$
5996. $\text{Int}[(e_{.}) + (f_{.})(x_{.})]^{(m_{.})} (F_{.})[(a_{.}) + (b_{.})(x_{.})]^{(p_{.})} (G_{.})[(c_{.}) + (d_{.})(x_{.})]^{(q_{.})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandTrigExpand}[(e + f*x)^m G[c + d*x]^q, F, c + d*x, p, b/d, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{MemberQ}\{\text{Sinh}, \text{Cosh}\}, F] \ \&\& \ \text{MemberQ}\{\text{Sech}, \text{Csch}\}, G] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IGtQ}[q, 0] \ \&\& \ \text{EqQ}[b*c - a*d, 0] \ \&\& \ \text{IGtQ}[b/d, 1]$
5997. $\text{Int}[(F_{.})^{((c_{.}) * ((a_{.}) + (b_{.})(x_{.})))} \text{Sinh}[(d_{.}) + (e_{.})(x_{.})], x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a + b*x))} * (\text{Sinh}[d + e*x]/(e^2 - b^2*c^2*\text{Log}[F]^2)), x] + \text{Simp}[e*F^{(c*(a + b*x))} * (\text{Cosh}[d + e*x]/(e^2 - b^2*c^2*\text{Log}[F]^2)), x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[e^2 - b^2*c^2*\text{Log}[F]^2, 0]$
5998. $\text{Int}[\text{Cosh}[(d_{.}) + (e_{.})(x_{.})] * (F_{.})^{((c_{.}) * ((a_{.}) + (b_{.})(x_{.})))}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a + b*x))} * (\text{Cosh}[d + e*x]/(e^2 - b^2*c^2*\text{Log}[F]^2)), x] + \text{Simp}[e*F^{(c*(a + b*x))} * (\text{Sinh}[d + e*x]/(e^2 - b^2*c^2*\text{Log}[F]^2)), x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[e^2 - b^2*c^2*\text{Log}[F]^2, 0]$
5999. $\text{Int}[(F_{.})^{((c_{.}) * ((a_{.}) + (b_{.})(x_{.})))} \text{Sinh}[(d_{.}) + (e_{.})(x_{.})]^{(n_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a + b*x))} * (\text{Sinh}[d + e*x]^n/(e^2*n$

- $$\int (e^{2x} - b^2 c^2 \text{Log}[F]^2), x] + (\text{Simp}[e^n F^{c(a+bx)} \text{Cosh}[d+ex] * (\text{Sinh}[d+ex]^{n-1} / (e^{2n} - b^2 c^2 \text{Log}[F]^2)), x] - \text{Simp}[n(n-1) * (e^2 / (e^{2n} - b^2 c^2 \text{Log}[F]^2)) \int F^{c(a+bx)} \text{Sinh}[d+ex]^{n-2}, x], x]) /; \text{FreeQ}\{F, a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[e^{2n} - b^2 c^2 \text{Log}[F]^2, 0] \ \&\& \ \text{GtQ}[n, 1]$$
6000. $\text{Int}[\text{Cosh}[(d_.) + (e_.) * (x_)]^{(n_)} * (F_)^{((c_.) * ((a_.) + (b_.) * (x_)))}, x_Symbol] :> \text{Simp}[(-b) * c * \text{Log}[F] * F^{c(a+bx)} * (\text{Cosh}[d+ex]^n / (e^{2n} - b^2 c^2 \text{Log}[F]^2)), x] + (\text{Simp}[e^n F^{c(a+bx)} \text{Sinh}[d+ex] * (\text{Cosh}[d+ex]^{n-1} / (e^{2n} - b^2 c^2 \text{Log}[F]^2)), x] + \text{Simp}[n(n-1) * (e^2 / (e^{2n} - b^2 c^2 \text{Log}[F]^2)) \int F^{c(a+bx)} \text{Cosh}[d+ex]^{n-2}, x], x]) /; \text{FreeQ}\{F, a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[e^{2n} - b^2 c^2 \text{Log}[F]^2, 0] \ \&\& \ \text{GtQ}[n, 1]$
6001. $\text{Int}[(F_)^{((c_.) * ((a_.) + (b_.) * (x_)))} * \text{Sinh}[(d_.) + (e_.) * (x_)]^{(n_)}, x_Symbol] :> \text{Simp}[(-b) * c * \text{Log}[F] * F^{c(a+bx)} * (\text{Sinh}[d+ex]^{n+2} / (e^{2(n+1)} * (n+2))), x] + \text{Simp}[F^{c(a+bx)} \text{Cosh}[d+ex] * (\text{Sinh}[d+ex]^{n+1} / (e * (n+1))), x] /; \text{FreeQ}\{F, a, b, c, d, e, n\}, x \ \&\& \ \text{EqQ}[e^{2(n+2)} - b^2 c^2 \text{Log}[F]^2, 0] \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{NeQ}[n, -2]$
6002. $\text{Int}[\text{Cosh}[(d_.) + (e_.) * (x_)]^{(n_)} * (F_)^{((c_.) * ((a_.) + (b_.) * (x_)))}, x_Symbol] :> \text{Simp}[b * c * \text{Log}[F] * F^{c(a+bx)} * (\text{Cosh}[d+ex]^{n+2} / (e^{2(n+1)} * (n+2))), x] - \text{Simp}[F^{c(a+bx)} \text{Sinh}[d+ex] * (\text{Cosh}[d+ex]^{n+1} / (e * (n+1))), x] /; \text{FreeQ}\{F, a, b, c, d, e, n\}, x \ \&\& \ \text{EqQ}[e^{2(n+2)} - b^2 c^2 \text{Log}[F]^2, 0] \ \&\& \ \text{NeQ}[n, -1] \ \&\& \ \text{NeQ}[n, -2]$
6003. $\text{Int}[(F_)^{((c_.) * ((a_.) + (b_.) * (x_)))} * \text{Sinh}[(d_.) + (e_.) * (x_)]^{(n_)}, x_Symbol] :> \text{Simp}[(-b) * c * \text{Log}[F] * F^{c(a+bx)} * (\text{Sinh}[d+ex]^{n+2} / (e^{2(n+1)} * (n+2))), x] + (\text{Simp}[F^{c(a+bx)} \text{Cosh}[d+ex] * (\text{Sinh}[d+ex]^{n+1} / (e * (n+1))), x] - \text{Simp}[(e^{2(n+2)} - b^2 c^2 \text{Log}[F]^2) / (e^{2(n+1)} * (n+2)) \int F^{c(a+bx)} \text{Sinh}[d+ex]^{n+2}, x], x]) /; \text{FreeQ}\{F, a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[e^{2(n+2)} - b^2 c^2 \text{Log}[F]^2, 0] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{NeQ}[n, -2]$
6004. $\text{Int}[\text{Cosh}[(d_.) + (e_.) * (x_)]^{(n_)} * (F_)^{((c_.) * ((a_.) + (b_.) * (x_)))}, x_Symbol] :> \text{Simp}[b * c * \text{Log}[F] * F^{c(a+bx)} * (\text{Cosh}[d+ex]^{n+2} / (e^{2(n+1)} * (n+2))), x] + (-\text{Simp}[F^{c(a+bx)} \text{Sinh}[d+ex] * (\text{Cosh}[d$

- $$+ e*x]^{(n+1)/(e*(n+1))}, x] + \text{Simp}[(e^{2*(n+2)^2} - b^2*c^2*\text{Log}[F]^{2})/(e^{2*(n+1)*(n+2)}) \text{Int}[F^{(c*(a+b*x))*\text{Cosh}[d+e*x]^{(n+2)}, x], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{NeQ}[e^{2*(n+2)^2} - b^2*c^2*\text{Log}[F]^2, 0] \&\& \text{LtQ}[n, -1] \&\& \text{NeQ}[n, -2]$$
6005. $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Sinh}[(d_.) + (e_.)*(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[E^{(n*(d+e*x))*(\text{Sinh}[d+e*x]^n/(-1+E^{2*(d+e*x)}))}^n) \text{Int}[F^{(c*(a+b*x))*((-1+E^{2*(d+e*x)})^n/E^{(n*(d+e*x))}), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, n\}, x] \&\& !\text{IntegerQ}[n]$
6006. $\text{Int}[\text{Cosh}[(d_.) + (e_.)*(x_)]^{(n_.)}*(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}, x_Symbol] \rightarrow \text{Simp}[E^{(n*(d+e*x))*(\text{Cosh}[d+e*x]^n/(1+E^{2*(d+e*x)}))}^n) \text{Int}[F^{(c*(a+b*x))*((1+E^{2*(d+e*x)})^n/E^{(n*(d+e*x)}), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, n\}, x] \&\& !\text{IntegerQ}[n]$
6007. $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Tanh}[(d_.) + (e_.)*(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[F^{(c*(a+b*x))*((-1+E^{2*(d+e*x)}))}^n/(1+E^{2*(d+e*x)}), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{IntegerQ}[n]$
6008. $\text{Int}[\text{Coth}[(d_.) + (e_.)*(x_)]^{(n_.)}*(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[F^{(c*(a+b*x))*((1+E^{2*(d+e*x)}))}^n/(-1+E^{2*(d+e*x)}), x], x] /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{IntegerQ}[n]$
6009. $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Sech}[(d_.) + (e_.)*(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a+b*x))*(\text{Sech}[d+e*x]^n/(e^{2*n^2} - b^2*c^2*\text{Log}[F]^2))}, x] + (-\text{Simp}[e^n*F^{(c*(a+b*x))*\text{Sech}[d+e*x]^{(n+1)}*(\text{Sinh}[d+e*x]/(e^{2*n^2} - b^2*c^2*\text{Log}[F]^2))}, x] + \text{Simp}[e^{2*n}*((n+1)/(e^{2*n^2} - b^2*c^2*\text{Log}[F]^2)) \text{Int}[F^{(c*(a+b*x))*\text{Sech}[d+e*x]^{(n+2)}, x], x]) /; \text{FreeQ}[\{F, a, b, c, d, e\}, x] \&\& \text{NeQ}[e^{2*n^2} + b^2*c^2*\text{Log}[F]^2, 0] \&\& \text{LtQ}[n, -1]$
6010. $\text{Int}[\text{Csch}[(d_.) + (e_.)*(x_)]^{(n_.)}*(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}, x_Symbol] \rightarrow \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a+b*x))*(\text{Csch}[d+e*x]^n/(e^{2*n^2} - b^2*c^2*\text{Log}[F]^2))}, x] + (-\text{Simp}[e^n*F^{(c*(a+b*x))*\text{Csch}[d+e*x]^{(n+1)}*(\text{Cosh}[d+e*x]/(e^{2*n^2} - b^2*c^2*\text{Log}[F]^2))}, x] - \text{Simp}[e^{2*n}$

- $$*((n + 1)/(e^{2n^2} - b^2c^2\text{Log}[F]^2)) \quad \text{Int}[F^{(c(a + b*x))*\text{Csch}[d + e*x]^{(n + 2)}, x], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[e^{2n^2} + b^2c^2\text{Log}[F]^2, 0] \ \&\& \ \text{LtQ}[n, -1]$$
6011. $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Sech}[(d_.) + (e_.)*(x_)]^{(n_.)}, x_Symbol] \ :> \ \text{Simp}[b*c*\text{Log}[F]*F^{(c*(a + b*x))*(\text{Sech}[d + e*x]^{(n - 2)})/(e^{2*(n - 1)*(n - 2)})}, x] + \text{Simp}[F^{(c*(a + b*x))*\text{Sech}[d + e*x]^{(n - 1)}}*(\text{Sinh}[d + e*x]/(e*(n - 1))), x] /; \text{FreeQ}\{F, a, b, c, d, e, n\}, x] \ \&\& \ \text{EqQ}[e^{2*(n - 2)^2} - b^2c^2\text{Log}[F]^2, 0] \ \&\& \ \text{NeQ}[n, 1] \ \&\& \ \text{NeQ}[n, 2]$
6012. $\text{Int}[\text{Csch}[(d_.) + (e_.)*(x_)]^{(n_.)}*(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}, x_Symbol] \ :> \ \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a + b*x))*(\text{Csch}[d + e*x]^{(n - 2)})/(e^{2*(n - 1)*(n - 2)})}, x] - \text{Simp}[F^{(c*(a + b*x))*\text{Csch}[d + e*x]^{(n - 1)}}*(\text{Cosh}[d + e*x]/(e*(n - 1))), x] /; \text{FreeQ}\{F, a, b, c, d, e, n\}, x] \ \&\& \ \text{EqQ}[e^{2*(n - 2)^2} - b^2c^2\text{Log}[F]^2, 0] \ \&\& \ \text{NeQ}[n, 1] \ \&\& \ \text{NeQ}[n, 2]$
6013. $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Sech}[(d_.) + (e_.)*(x_)]^{(n_.)}, x_Symbol] \ :> \ \text{Simp}[b*c*\text{Log}[F]*F^{(c*(a + b*x))*(\text{Sech}[d + e*x]^{(n - 2)})/(e^{2*(n - 1)*(n - 2)})}, x] + (\text{Simp}[F^{(c*(a + b*x))*\text{Sech}[d + e*x]^{(n - 1)}}*(\text{Sinh}[d + e*x]/(e*(n - 1))), x] + \text{Simp}[(e^{2*(n - 2)^2} - b^2c^2\text{Log}[F]^2)/(e^{2*(n - 1)*(n - 2)}) \quad \text{Int}[F^{(c*(a + b*x))*\text{Sech}[d + e*x]^{(n - 2)}, x], x]) /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[e^{2*(n - 2)^2} - b^2c^2\text{Log}[F]^2, 0] \ \&\& \ \text{GtQ}[n, 1] \ \&\& \ \text{NeQ}[n, 2]$
6014. $\text{Int}[\text{Csch}[(d_.) + (e_.)*(x_)]^{(n_.)}*(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}, x_Symbol] \ :> \ \text{Simp}[(-b)*c*\text{Log}[F]*F^{(c*(a + b*x))*(\text{Csch}[d + e*x]^{(n - 2)})/(e^{2*(n - 1)*(n - 2)})}, x] + (-\text{Simp}[F^{(c*(a + b*x))*\text{Csch}[d + e*x]^{(n - 1)}}*(\text{Cosh}[d + e*x]/(e*(n - 1))), x] - \text{Simp}[(e^{2*(n - 2)^2} - b^2c^2\text{Log}[F]^2)/(e^{2*(n - 1)*(n - 2)}) \quad \text{Int}[F^{(c*(a + b*x))*\text{Csch}[d + e*x]^{(n - 2)}, x], x]) /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \ \&\& \ \text{NeQ}[e^{2*(n - 2)^2} - b^2c^2\text{Log}[F]^2, 0] \ \&\& \ \text{GtQ}[n, 1] \ \&\& \ \text{NeQ}[n, 2]$
6015. $\text{Int}[(F_)^{((c_.)*((a_.) + (b_.)*(x_)))}*\text{Sech}[(d_.) + (e_.)*(x_)]^{(n_.)}, x_Symbol] \ :> \ \text{Simp}[2^n * E^{(n*(d + e*x))} * (F^{(c*(a + b*x))}) / (e * n + b * c * \text{Log}[F]) * \text{Hypergeometric2F1}[n, n/2 + b * c * (\text{Log}[F] / (2 * e)), 1 + n/2 + b * c * (\text{Log}[F] / (2 * e)), -E^{(2*(d + e*x))}], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \ \&\& \ \text{IntegerQ}[n]$

6016. $\text{Int}[\text{Csch}[(d_.) + (e_.)(x_.)]^{(n_.)}(F_.)^{((c_.)((a_.) + (b_.)(x_.))}, x_Symbol] \rightarrow \text{Simp}[(-2)^n E^{n(d + ex)} (F^{c(a + bx)}) / (e^n + b^c \text{Log}[F])] * \text{Hypergeometric2F1}[n, n/2 + b^c (\text{Log}[F]/(2e)), 1 + n/2 + b^c (\text{Log}[F]/(2e)), E^{2(d + ex)}], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \&\& \text{IntegerQ}[n]$
6017. $\text{Int}[(F_.)^{((c_.)((a_.) + (b_.)(x_.))} * \text{Sech}[(d_.) + (e_.)(x_.)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(1 + E^{2(d + ex)})^n (\text{Sech}[d + ex]^n / E^{n(d + ex)})] \text{Int}[\text{SimplifyIntegrand}[F^{c(a + bx)} (E^{n(d + ex)}) / (1 + E^{2(d + ex)})^n], x], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \&\& !\text{IntegerQ}[n]$
6018. $\text{Int}[\text{Csch}[(d_.) + (e_.)(x_.)]^{(n_.)}(F_.)^{((c_.)((a_.) + (b_.)(x_.))}, x_Symbol] \rightarrow \text{Simp}[(1 - E^{-2(d + ex)})^n (\text{Csch}[d + ex]^n / E^{(-n)(d + ex)})] \text{Int}[\text{SimplifyIntegrand}[F^{c(a + bx)} (1 / (E^{n(d + ex)} (1 - E^{-2(d + ex)})^n)), x], x], x] /; \text{FreeQ}\{F, a, b, c, d, e\}, x] \&\& !\text{IntegerQ}[n]$
6019. $\text{Int}[(F_.)^{((c_.)((a_.) + (b_.)(x_.))} * ((f_.) + (g_.) * \text{Sinh}[(d_.) + (e_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[2^n f^n \text{Int}[F^{c(a + bx)} * \text{Cosh}[d/2 - f(\text{Pi}/(4g)) + e(x/2)]^{(2n)}, x], x] /; \text{FreeQ}\{F, a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[f^2 + g^2, 0] \&\& \text{ILtQ}[n, 0]$
6020. $\text{Int}[(\text{Cosh}[(d_.) + (e_.)(x_.)] * (g_.) + (f_.))^{(n_.)}(F_.)^{((c_.)((a_.) + (b_.)(x_.))}, x_Symbol] \rightarrow \text{Simp}[2^n g^n \text{Int}[F^{c(a + bx)} * \text{Cosh}[d/2 + e(x/2)]^{(2n)}, x], x] /; \text{FreeQ}\{F, a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[f - g, 0] \&\& \text{ILtQ}[n, 0]$
6021. $\text{Int}[(\text{Cosh}[(d_.) + (e_.)(x_.)] * (g_.) + (f_.))^{(n_.)}(F_.)^{((c_.)((a_.) + (b_.)(x_.))}, x_Symbol] \rightarrow \text{Simp}[2^n g^n \text{Int}[F^{c(a + bx)} * \text{Sinh}[d/2 + e(x/2)]^{(2n)}, x], x] /; \text{FreeQ}\{F, a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[f + g, 0] \&\& \text{ILtQ}[n, 0]$
6022. $\text{Int}[(F_.)^{((c_.)((a_.) + (b_.)(x_.))} * ((f_.) + (g_.) * \text{Sinh}[(d_.) + (e_.)(x_.)])^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[(f + g * \text{Sinh}[d + ex])^n / \text{Cosh}[d/2 - f$

- $(\text{Pi}/(4*g)) + e*(x/2)]^{(2*n)}$ Int[F^(c*(a + b*x))*Cosh[d/2 - f*(Pi/(4*g)) + e*(x/2)]^(2*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g, n}, x] && EqQ[f^2 + g^2, 0] && !IntegerQ[n]
6023. Int[(Cosh[(d_.) + (e_.)*(x_)]*(g_.) + (f_.))^(n_.)*(F_)^((c_.)*((a_.) + (b_.)*(x_))), x_Symbol] :> Simp[(f + g*Cosh[d + e*x])^n/Cosh[d/2 + e*(x/2)]^(2*n) Int[F^(c*(a + b*x))*Cosh[d/2 + e*(x/2)]^(2*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g, n}, x] && EqQ[f - g, 0] && !IntegerQ[n]
6024. Int[(Cosh[(d_.) + (e_.)*(x_)]*(g_.) + (f_.))^(n_.)*(F_)^((c_.)*((a_.) + (b_.)*(x_))), x_Symbol] :> Simp[(f + g*Cosh[d + e*x])^n/Sinh[d/2 + e*(x/2)]^(2*n) Int[F^(c*(a + b*x))*Sinh[d/2 + e*(x/2)]^(2*n), x], x] /; FreeQ[{F, a, b, c, d, e, f, g, n}, x] && EqQ[f + g, 0] && !IntegerQ[n]
6025. Int[Cosh[(d_.) + (e_.)*(x_)]^(m_.)*(F_)^((c_.)*((a_.) + (b_.)*(x_)))*(f_.) + (g_.)*Sinh[(d_.) + (e_.)*(x_)]^(n_.), x_Symbol] :> Simp[g^n Int[F^(c*(a + b*x))*Tanh[d/2 + e*(x/2) - f*(Pi/(4*g))]^m, x], x] /; FreeQ[{F, a, b, c, d, e, f, g}, x] && EqQ[f^2 + g^2, 0] && IntegersQ[m, n] && EqQ[m + n, 0]
6026. Int[(Cosh[(d_.) + (e_.)*(x_)]*(g_.) + (f_.))^(n_.)*(F_)^((c_.)*((a_.) + (b_.)*(x_)))*Sinh[(d_.) + (e_.)*(x_)]^(m_.), x_Symbol] :> Simp[g^n Int[F^(c*(a + b*x))*Tanh[d/2 + e*(x/2)]^m, x], x] /; FreeQ[{F, a, b, c, d, e, f, g}, x] && EqQ[f - g, 0] && IntegersQ[m, n] && EqQ[m + n, 0]
6027. Int[(Cosh[(d_.) + (e_.)*(x_)]*(g_.) + (f_.))^(n_.)*(F_)^((c_.)*((a_.) + (b_.)*(x_)))*Sinh[(d_.) + (e_.)*(x_)]^(m_.), x_Symbol] :> Simp[g^n Int[F^(c*(a + b*x))*Coth[d/2 + e*(x/2)]^m, x], x] /; FreeQ[{F, a, b, c, d, e, f, g}, x] && EqQ[f + g, 0] && IntegersQ[m, n] && EqQ[m + n, 0]
6028. Int[((F_)^((c_.)*((a_.) + (b_.)*(x_)))*(Cosh[(d_.) + (e_.)*(x_)]*(i_.) + (h_.)))/((f_.) + (g_.)*Sinh[(d_.) + (e_.)*(x_)]), x_Symbol] :> Simp[2*i Int[F^(c*(a + b*x))*(Cosh[d + e*x]/(f + g*Sinh[d + e*x])), x], x] + Int[F^(c*(a + b*x))*(h - i*Cosh[d + e*x]/(f + g*Sinh[d + e*x])), x] /; FreeQ[{F, a, b, c, d, e, f, g, h, i}, x] && EqQ[f^2 + g^2, 0] &&

- EqQ[h² - i², 0] && EqQ[g*h - f*i, 0]
6029. Int[((F_)^((c_)*((a_) + (b_)*(x_)))*(h_) + (i_)*Sinh[(d_) + (e_)*(x_)])/(Cosh[(d_) + (e_)*(x_)]*(g_) + (f_)), x_Symbol] := Simp[2 *i Int[F^(c*(a + b*x))*(Sinh[d + e*x]/(f + g*Cosh[d + e*x])), x], x] + Int[F^(c*(a + b*x))*((h - i*Sinh[d + e*x])/(f + g*Cosh[d + e*x])), x] /; FreeQ[{F, a, b, c, d, e, f, g, h, i}, x] && EqQ[f² - g², 0] && EqQ[h² + i², 0] && EqQ[g*h + f*i, 0]
6030. Int[(F_)^((c_)*(u_))*(G_)[v_]^(n_), x_Symbol] := Int[F^(c*ExpandToSum[u, x])*G[ExpandToSum[v, x]]^n, x] /; FreeQ[{F, c, n}, x] && HyperbolicQ[G] && LinearQ[{u, v}, x] && !LinearMatchQ[{u, v}, x]
6031. Int[(F_)^((c_)*((a_) + (b_)*(x_)))*((f_)*(x_))^(m_)*Sinh[(d_) + (e_)*(x_)]^(n_), x_Symbol] := Module[{u = IntHide[F^(c*(a + b*x))*Sinh[d + e*x]^n, x]}, Simp[(f*x)^m u, x] - Simp[f*m Int[(f*x)^(m - 1)*u, x], x] /; FreeQ[{F, a, b, c, d, e, f}, x] && IGtQ[n, 0] && GtQ[m, 0]
6032. Int[Cosh[(d_) + (e_)*(x_)]^(n_)*(F_)^((c_)*((a_) + (b_)*(x_)))*((f_)*(x_))^(m_), x_Symbol] := Module[{u = IntHide[F^(c*(a + b*x))*Cosh[d + e*x]^n, x]}, Simp[(f*x)^m u, x] - Simp[f*m Int[(f*x)^(m - 1)*u, x], x] /; FreeQ[{F, a, b, c, d, e, f}, x] && IGtQ[n, 0] && GtQ[m, 0]
6033. Int[(F_)^((c_)*((a_) + (b_)*(x_)))*((f_)*(x_))^(m_)*Sinh[(d_) + (e_)*(x_)], x_Symbol] := Simp[((f*x)^(m + 1)/(f*(m + 1)))*F^(c*(a + b*x))*Sinh[d + e*x], x] + (-Simp[e/(f*(m + 1)) Int[(f*x)^(m + 1)*F^(c*(a + b*x))*Cosh[d + e*x], x], x] - Simp[b*c*(Log[F]/(f*(m + 1))) Int[(f*x)^(m + 1)*F^(c*(a + b*x))*Sinh[d + e*x], x], x] /; FreeQ[{F, a, b, c, d, e, f, m}, x] && (LtQ[m, -1] || SumSimplerQ[m, 1])
6034. Int[Cosh[(d_) + (e_)*(x_)]*(F_)^((c_)*((a_) + (b_)*(x_)))*((f_)*(x_))^(m_), x_Symbol] := Simp[((f*x)^(m + 1)/(f*(m + 1)))*F^(c*(a + b*x))*Cosh[d + e*x], x] + (-Simp[e/(f*(m + 1)) Int[(f*x)^(m + 1)*F^(c*(a + b*x))*Sinh[d + e*x], x], x] - Simp[b*c*(Log[F]/(f*(m + 1))) Int[(f*x)^(m + 1)*F^(c*(a + b*x))*Cosh[d + e*x], x], x] /; FreeQ[{F, a,

- b, c, d, e, f, m}, x] && (LtQ[m, -1] || SumSimplerQ[m, 1])
6035. $\text{Int}[\text{Cosh}[(f_.) + (g_.)*(x_)]^{(n_)}*(F_)^{((c_)*((a_.) + (b_.)*(x_)))}*Sinh[(d_.) + (e_.)*(x_)]^{(m_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[F^{(c*(a + b*x))}, Sinh[d + e*x]^m*Cosh[f + g*x]^n, x], x] /;$ FreeQ[{F, a, b, c, d, e, f, g}, x] && IGtQ[m, 0] && IGtQ[n, 0]
6036. $\text{Int}[\text{Cosh}[(f_.) + (g_.)*(x_)]^{(n_)}*(F_)^{((c_)*((a_.) + (b_.)*(x_)))}*(x_)^{(p_)}*Sinh[(d_.) + (e_.)*(x_)]^{(m_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[x^p*F^{(c*(a + b*x))}, Sinh[d + e*x]^m*Cosh[f + g*x]^n, x], x] /;$ FreeQ[{F, a, b, c, d, e, f, g}, x] && IGtQ[m, 0] && IGtQ[n, 0] && IGtQ[p, 0]
6037. $\text{Int}[(F_)^{((c_)*((a_.) + (b_.)*(x_)))}*(G_)[(d_.) + (e_.)*(x_)]^{(m_)}*(H_)[(d_.) + (e_.)*(x_)]^{(n_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigToExp}[F^{(c*(a + b*x))}, G[d + e*x]^m*H[d + e*x]^n, x], x] /;$ FreeQ[{F, a, b, c, d, e}, x] && IGtQ[m, 0] && IGtQ[n, 0] && HyperbolicQ[G] && HyperbolicQ[H]
6038. $\text{Int}[(F_)^{(u_)}*Sinh[v_]^{(n_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigToExp}[F^u, Sinh[v]^n, x], x] /;$ FreeQ[F, x] && (LinearQ[u, x] || PolyQ[u, x, 2]) && (LinearQ[v, x] || PolyQ[v, x, 2]) && IGtQ[n, 0]
6039. $\text{Int}[\text{Cosh}[v_]^{(n_)}*(F_)^{(u_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigToExp}[F^u, Cosh[v]^n, x], x] /;$ FreeQ[F, x] && (LinearQ[u, x] || PolyQ[u, x, 2]) && (LinearQ[v, x] || PolyQ[v, x, 2]) && IGtQ[n, 0]
6040. $\text{Int}[\text{Cosh}[v_]^{(n_)}*(F_)^{(u_)}*Sinh[v_]^{(m_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandTrigToExp}[F^u, Sinh[v]^m*Cosh[v]^n, x], x] /;$ FreeQ[F, x] && (LinearQ[u, x] || PolyQ[u, x, 2]) && (LinearQ[v, x] || PolyQ[v, x, 2]) && IGtQ[m, 0] && IGtQ[n, 0]
6041. $\text{Int}[\text{Sinh}[\text{Log}[(c_.)*(x_)]^{(n_)}*(b_)]^{(p_)}, x_Symbol] \rightarrow \text{Int}[(c*x^n)^{b/2 - 1/(2*(c*x^n)^b)}]^p, x] /;$ FreeQ[c, x] && RationalQ[b, n, p]
6042. $\text{Int}[\text{Cosh}[\text{Log}[(c_.)*(x_)]^{(n_)}*(b_)]^{(p_)}, x_Symbol] \rightarrow \text{Int}[(c*x^n)^{b/2 + 1/(2*(c*x^n)^b)}]^p, x] /;$ FreeQ[c, x] && RationalQ[b, n, p]

6043. `Int[Sinh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] := Simp[(-x)*(Sinh[d*(a + b*Log[c*x^n])]/(b^2*d^2*n^2 - 1)), x] + Simp[b*d*n*x*(Cosh[d*(a + b*Log[c*x^n])]/(b^2*d^2*n^2 - 1)), x] /; FreeQ[{a, b, c, d, n}, x] && NeQ[b^2*d^2*n^2 - 1, 0]`
6044. `Int[Cosh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] := Simp[(-x)*(Cosh[d*(a + b*Log[c*x^n])]/(b^2*d^2*n^2 - 1)), x] + Simp[b*d*n*x*(Sinh[d*(a + b*Log[c*x^n])]/(b^2*d^2*n^2 - 1)), x] /; FreeQ[{a, b, c, d, n}, x] && NeQ[b^2*d^2*n^2 - 1, 0]`
6045. `Int[Sinh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_), x_Symbol] := Simp[(-x)*(Sinh[d*(a + b*Log[c*x^n])]^p/(b^2*d^2*n^2*p^2 - 1)), x] + (Simp[b*d*n*p*x*Cosh[d*(a + b*Log[c*x^n])]*(Sinh[d*(a + b*Log[c*x^n])]^(p - 1)/(b^2*d^2*n^2*p^2 - 1)), x] - Simp[b^2*d^2*n^2*p*((p - 1)/(b^2*d^2*n^2*p^2 - 1)) Int[Sinh[d*(a + b*Log[c*x^n])]^(p - 2), x], x]) /; FreeQ[{a, b, c, d, n}, x] && IGtQ[p, 1] && NeQ[b^2*d^2*n^2*p^2 - 1, 0]`
6046. `Int[Cosh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_), x_Symbol] := Simp[(-x)*(Cosh[d*(a + b*Log[c*x^n])]^p/(b^2*d^2*n^2*p^2 - 1)), x] + (Simp[b*d*n*p*x*Cosh[d*(a + b*Log[c*x^n])]^(p - 1)*(Sinh[d*(a + b*Log[c*x^n])]/(b^2*d^2*n^2*p^2 - 1)), x] + Simp[b^2*d^2*n^2*p*((p - 1)/(b^2*d^2*n^2*p^2 - 1)) Int[Cosh[d*(a + b*Log[c*x^n])]^(p - 2), x], x]) /; FreeQ[{a, b, c, d, n}, x] && IGtQ[p, 1] && NeQ[b^2*d^2*n^2*p^2 - 1, 0]`
6047. `Int[Sinh[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_), x_Symbol] := Simp[1/(2^p*b^p*d^p*p^p) Int[ExpandIntegrand[(-E^((-a)*b*d^2*p)/x^p^(-1) + E^(a*b*d^2*p)*x^(1/p))^p, x], x] /; FreeQ[{a, b, d}, x] && IGtQ[p, 0] && EqQ[b^2*d^2*p^2 - 1, 0]`
6048. `Int[Cosh[((a_.) + Log[x_]*(b_.))*(d_.)]^(p_), x_Symbol] := Simp[1/2^p Int[ExpandIntegrand[(1/(E^(a*b*d^2*p)*x^p^(-1)) + E^(a*b*d^2*p)*x^(1/p))^p, x], x] /; FreeQ[{a, b, d}, x] && IGtQ[p, 0] && EqQ[b^2*d^2*p^2 - 1, 0]`

6049. $\text{Int}[\text{Sinh}[(a_.) + \text{Log}[x_.*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sinh}[d*(a + b*\text{Log}[x])]^p/(x^{(b*d*p)}*(1 - 1/(E^{(2*a*d)}*x^{(2*b*d)}))^{(p)}) \text{Int}[x^{(b*d*p)}*(1 - 1/(E^{(2*a*d)}*x^{(2*b*d)}))^{(p)}, x], x] /; \text{FreeQ}\{a, b, d, p\}, x] \&\& !\text{IntegerQ}[p]$
6050. $\text{Int}[\text{Cosh}[(a_.) + \text{Log}[x_.*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Cosh}[d*(a + b*\text{Log}[x])]^p/(x^{(b*d*p)}*(1 + 1/(E^{(2*a*d)}*x^{(2*b*d)}))^{(p)}) \text{Int}[x^{(b*d*p)}*(1 + 1/(E^{(2*a*d)}*x^{(2*b*d)}))^{(p)}, x], x] /; \text{FreeQ}\{a, b, d, p\}, x] \&\& !\text{IntegerQ}[p]$
6051. $\text{Int}[\text{Sinh}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[x/(n*(c*x^n)^{(1/n)}) \text{Subst}[\text{Int}[x^{(1/n - 1)}*\text{Sinh}[d*(a + b*\text{Log}[x])]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& (\text{NeQ}[c, 1] \|\| \text{NeQ}[n, 1])$
6052. $\text{Int}[\text{Cosh}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[x/(n*(c*x^n)^{(1/n)}) \text{Subst}[\text{Int}[x^{(1/n - 1)}*\text{Cosh}[d*(a + b*\text{Log}[x])]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& (\text{NeQ}[c, 1] \|\| \text{NeQ}[n, 1])$
6053. $\text{Int}[(e_.)*(x_)^{(m_.)}*\text{Sinh}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[(-m + 1)*(e*x)^{(m + 1)}*(\text{Sinh}[d*(a + b*\text{Log}[c*x^n])]/(b^2*d^2*e*n^2 - e*(m + 1)^2)), x] + \text{Simp}[b*d*n*(e*x)^{(m + 1)}*(\text{Cosh}[d*(a + b*\text{Log}[c*x^n])]/(b^2*d^2*e*n^2 - e*(m + 1)^2)), x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[b^2*d^2*n^2 - (m + 1)^2, 0]$
6054. $\text{Int}[\text{Cosh}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]*(e_.)*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-m + 1)*(e*x)^{(m + 1)}*(\text{Cosh}[d*(a + b*\text{Log}[c*x^n])]/(b^2*d^2*e*n^2 - e*(m + 1)^2)), x] + \text{Simp}[b*d*n*(e*x)^{(m + 1)}*(\text{Sinh}[d*(a + b*\text{Log}[c*x^n])]/(b^2*d^2*e*n^2 - e*(m + 1)^2)), x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[b^2*d^2*n^2 - (m + 1)^2, 0]$
6055. $\text{Int}[(e_.)*(x_)^{(m_.)}*\text{Sinh}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-m + 1)*(e*x)^{(m + 1)}*(\text{Sinh}[d*(a + b*\text{Log}[c*x^n])]^p/(b^2*d^2*e*n^2*p^2 - e*(m + 1)^2)), x] + (\text{Simp}[b*d*n*p*(e*x)^{(m + 1)}*\text{Cosh}[d*(a + b*\text{Log}[c*x^n])]*(\text{Sinh}[d*(a + b*\text{Log}[c*x^n])])^{(p - 1)}/(b^2*d^2*e*n^2*p^2 - e*(m + 1)^2)), x] - \text{Simp}[b^2*d^2*n^2*p*((p -$

- 1)/(b^2*d^2*n^2*p^2 - (m + 1)^2)) Int[(e*x)^m*Sinh[d*(a + b*Log[c*x^n])]^(p - 2), x], x) /; FreeQ[{a, b, c, d, e, m, n}, x] && IGtQ[p, 1] && NeQ[b^2*d^2*n^2*p^2 - (m + 1)^2, 0]
6056. Int[Cosh[(a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.)]*(d_.)]^(p_)*((e_.)*(x_)^(m_.), x_Symbol] :> Simp[(-m + 1)*(e*x)^(m + 1)*(Cosh[d*(a + b*Log[c*x^n])]^(p/(b^2*d^2*e*n^2*p^2 - e*(m + 1)^2)), x] + (Simp[b*d*n*p*(e*x)^(m + 1)*Sinh[d*(a + b*Log[c*x^n])]*(Cosh[d*(a + b*Log[c*x^n])]^(p - 1)/(b^2*d^2*e*n^2*p^2 - e*(m + 1)^2)), x] + Simp[b^2*d^2*n^2*p*((p - 1)/(b^2*d^2*n^2*p^2 - (m + 1)^2)) Int[(e*x)^m*Cosh[d*(a + b*Log[c*x^n])]^(p - 2), x], x) /; FreeQ[{a, b, c, d, e, m, n}, x] && IGtQ[p, 1] && NeQ[b^2*d^2*n^2*p^2 - (m + 1)^2, 0]
6057. Int[((e_.)*(x_))^(m_.)*Sinh[(a_.) + Log[x_]*(b_.)]*(d_.)]^(p_.), x_Symbol] :> Simp[(m + 1)^p/(2^p*b^p*d^p*p^p) Int[ExpandIntegrand[(e*x)^m*(-E^((-a)*b*d^2*(p/(m + 1)))/x^((m + 1)/p) + E^(a*b*d^2*(p/(m + 1)))*x^((m + 1)/p))]^p, x], x] /; FreeQ[{a, b, d, e, m}, x] && IGtQ[p, 0] && EqQ[b^2*d^2*p^2 - (m + 1)^2, 0]
6058. Int[Cosh[(a_.) + Log[x_]*(b_.)]*(d_.)]^(p_.)*((e_.)*(x_))^(m_.), x_Symbol] :> Simp[1/2^p Int[ExpandIntegrand[(e*x)^m*(1/(E^(a*b*d^2*(p/(m + 1)))*x^((m + 1)/p)) + E^(a*b*d^2*(p/(m + 1)))*x^((m + 1)/p))]^p, x], x] /; FreeQ[{a, b, d, e, m}, x] && IGtQ[p, 0] && EqQ[b^2*d^2*p^2 - (m + 1)^2, 0]
6059. Int[((e_.)*(x_))^(m_.)*Sinh[(a_.) + Log[x_]*(b_.)]*(d_.)]^(p_), x_Symbol] :> Simp[Sinh[d*(a + b*Log[x])]^(p)/(x^(b*d*p))*(1 - 1/(E^(2*a*d)*x^(2*b*d)))^p) Int[(e*x)^m*x^(b*d*p)*(1 - 1/(E^(2*a*d)*x^(2*b*d)))^p, x], x] /; FreeQ[{a, b, d, e, m, p}, x] && !IntegerQ[p]
6060. Int[Cosh[(a_.) + Log[x_]*(b_.)]*(d_.)]^(p_)*((e_.)*(x_))^(m_.), x_Symbol] :> Simp[Cosh[d*(a + b*Log[x])]^(p)/(x^(b*d*p))*(1 + 1/(E^(2*a*d)*x^(2*b*d)))^p) Int[(e*x)^m*x^(b*d*p)*(1 + 1/(E^(2*a*d)*x^(2*b*d)))^p, x], x] /; FreeQ[{a, b, d, e, m, p}, x] && !IntegerQ[p]
6061. Int[((e_.)*(x_))^(m_.)*Sinh[(a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.)]*(d_.)]^(p_.), x_Symbol] :> Simp[(e*x)^(m + 1)/(e*n*(c*x^n)^((m + 1)/n))

- Subst[Int[x^{((m + 1)/n - 1)}*Sinh[d*(a + b*Log[x])]^p, x], x, c*x^n], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])
6062. Int[Cosh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]^(p_.)*((e_.)*(x_)^(m_.)), x_Symbol] :> Simp[(e*x)^(m + 1)/(e*n*(c*x^n)^((m + 1)/n)) Subst[Int[x^{((m + 1)/n - 1)}*Cosh[d*(a + b*Log[x])]^p, x], x, c*x^n], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])
6063. Int[(((e_.) + Log[(g_.)*(x_)^(m_.)]*(f_.))*(h_.))^(q_.)*Sinh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] :> Simp[(-E^((-a)*d))* (1/((c*x^n)^(b*d)*(2/x^(b*d*n)))) Int[(h*(e + f*Log[g*x^m]))^q/x^(b*d*n), x], x] + Simp[E^(a*d)*((c*x^n)^(b*d)/(2*x^(b*d*n))) Int[x^(b*d*n)* (h*(e + f*Log[g*x^m]))^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, q}, x]
6064. Int[Cosh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.))*(((e_.) + Log[(g_.)*(x_)^(m_.)]*(f_.))*(h_.))^(q_.), x_Symbol] :> Simp[1/((c*x^n)^(b*d)*(2/x^(b*d*n)))/E^(a*d) Int[(h*(e + f*Log[g*x^m]))^q/x^(b*d*n), x], x] + Simp[E^(a*d)*((c*x^n)^(b*d)/(2*x^(b*d*n))) Int[x^(b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, q}, x]
6065. Int[(((e_.) + Log[(g_.)*(x_)^(m_.)]*(f_.))*(h_.))^(q_.)*((i_.)*(x_)^(r_.))*Sinh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] :> Simp[(-E^((-a)*d))* (i*x)^r*(1/((c*x^n)^(b*d)*(2*x^(r - b*d*n)))) Int[x^(r - b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] + Simp[E^(a*d)*(i*x)^r*((c*x^n)^(b*d)/(2*x^(r + b*d*n))) Int[x^(r + b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, m, n, q, r}, x]
6066. Int[Cosh[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.))*(((e_.) + Log[(g_.)*(x_)^(m_.)]*(f_.))*(h_.))^(q_.)*((i_.)*(x_)^(r_.)), x_Symbol] :> Simp[((i*x)^r*(1/((c*x^n)^(b*d)*(2*x^(r - b*d*n))))/E^(a*d) Int[x^(r - b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] + Simp[E^(a*d)*(i*x)^r*((c*x^n)^(b*d)/(2*x^(r + b*d*n))) Int[x^(r + b*d*n)*(h*(e + f*Log[g*x^m]))^q, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, i, m, n, q, r}, x]

6067. $\text{Int}[\text{Tanh}[(a_.) + \text{Log}[x_.*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Int}[(-1 + E^{(2*a*d)*x^{(2*b*d)}})^p/(1 + E^{(2*a*d)*x^{(2*b*d)}})^p, x] /; \text{FreeQ}\{a, b, d, p\}, x]$
6068. $\text{Int}[\text{Coth}[(a_.) + \text{Log}[x_.*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Int}[(-1 - E^{(2*a*d)*x^{(2*b*d)}})^p/(1 - E^{(2*a*d)*x^{(2*b*d)}})^p, x] /; \text{FreeQ}\{a, b, d, p\}, x]$
6069. $\text{Int}[\text{Tanh}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[x/(n*(c*x^n)^{(1/n)}) \text{Subst}[\text{Int}[x^{(1/n - 1)}*\text{Tanh}[d*(a + b*\text{Log}[x])]]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& (\text{NeQ}[c, 1] \parallel \text{NeQ}[n, 1])$
6070. $\text{Int}[\text{Coth}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[x/(n*(c*x^n)^{(1/n)}) \text{Subst}[\text{Int}[x^{(1/n - 1)}*\text{Coth}[d*(a + b*\text{Log}[x])]]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, n, p\}, x] \&\& (\text{NeQ}[c, 1] \parallel \text{NeQ}[n, 1])$
6071. $\text{Int}[(e_.)*(x_)^{(m_.)}*\text{Tanh}[(a_.) + \text{Log}[x_.*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Int}[(e*x)^m*((-1 + E^{(2*a*d)*x^{(2*b*d)}})^p/(1 + E^{(2*a*d)*x^{(2*b*d)}})^p), x] /; \text{FreeQ}\{a, b, d, e, m, p\}, x]$
6072. $\text{Int}[\text{Coth}[(a_.) + \text{Log}[x_.*(b_.)]*(d_.)]^{(p_.)}*(e_.)*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(e*x)^m*((-1 - E^{(2*a*d)*x^{(2*b*d)}})^p/(1 - E^{(2*a*d)*x^{(2*b*d)}})^p), x] /; \text{FreeQ}\{a, b, d, e, m, p\}, x]$
6073. $\text{Int}[(e_.)*(x_)^{(m_.)}*\text{Tanh}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(e*x)^{(m + 1)}/(e*n*(c*x^n)^{(m + 1)/n}) \text{Subst}[\text{Int}[x^{(m + 1)/n - 1}*\text{Tanh}[d*(a + b*\text{Log}[x])]]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& (\text{NeQ}[c, 1] \parallel \text{NeQ}[n, 1])$
6074. $\text{Int}[\text{Coth}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}*(e_.)*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e*x)^{(m + 1)}/(e*n*(c*x^n)^{(m + 1)/n}) \text{Subst}[\text{Int}[x^{(m + 1)/n - 1}*\text{Coth}[d*(a + b*\text{Log}[x])]]^p, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& (\text{NeQ}[c, 1] \parallel \text{NeQ}[n, 1])$

6075. $\text{Int}[\text{Sech}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[2^p/E^{(a*d*p)} \text{Int}[1/(x^{(b*d*p)}*(1 + 1/(E^{(2*a*d)}*x^{(2*b*d)})))^p], x], x] /$
; FreeQ[{a, b, d}, x] && IntegerQ[p]
6076. $\text{Int}[\text{Csch}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[2^p/E^{(a*d*p)} \text{Int}[1/(x^{(b*d*p)}*(1 - 1/(E^{(2*a*d)}*x^{(2*b*d)})))^p], x], x] /$
; FreeQ[{a, b, d}, x] && IntegerQ[p]
6077. $\text{Int}[\text{Sech}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sech}[d*(a + b*\text{Log}[x])]^p*((1 + 1/(E^{(2*a*d)}*x^{(2*b*d)})))^p/x^{((-b)*d*p)} \text{Int}[1/(x^{(b*d*p)}*(1 + 1/(E^{(2*a*d)}*x^{(2*b*d)})))^p], x], x] /$; FreeQ[{a, b, d, p}, x] && !IntegerQ[p]
6078. $\text{Int}[\text{Csch}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Csch}[d*(a + b*\text{Log}[x])]^p*((1 - 1/(E^{(2*a*d)}*x^{(2*b*d)})))^p/x^{((-b)*d*p)} \text{Int}[1/(x^{(b*d*p)}*(1 - 1/(E^{(2*a*d)}*x^{(2*b*d)})))^p], x], x] /$; FreeQ[{a, b, d, p}, x] && !IntegerQ[p]
6079. $\text{Int}[\text{Sech}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[x/(n*(c*x^n)^{(1/n)}) \text{Subst}[\text{Int}[x^{(1/n - 1)}*\text{Sech}[d*(a + b*\text{Log}[x])]^p], x, c*x^n], x] /$; FreeQ[{a, b, c, d, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])
6080. $\text{Int}[\text{Csch}[(a_.) + \text{Log}[(c_.)*(x_)^{(n_.)}]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[x/(n*(c*x^n)^{(1/n)}) \text{Subst}[\text{Int}[x^{(1/n - 1)}*\text{Csch}[d*(a + b*\text{Log}[x])]^p], x, c*x^n], x] /$; FreeQ[{a, b, c, d, n, p}, x] && (NeQ[c, 1] || NeQ[n, 1])
6081. $\text{Int}[(e_.)*(x_)^{(m_.)}*\text{Sech}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[2^p/E^{(a*d*p)} \text{Int}[(e*x)^m*(1/(x^{(b*d*p)}*(1 + 1/(E^{(2*a*d)}*x^{(2*b*d)})))^p), x], x] /$; FreeQ[{a, b, d, e, m}, x] && IntegerQ[p]
6082. $\text{Int}[\text{Csch}[(a_.) + \text{Log}[x_]*(b_.)]*(d_.)]^{(p_.)}*((e_.)*(x_)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[2^p/E^{(a*d*p)} \text{Int}[(e*x)^m*(1/(x^{(b*d*p)}*(1 - 1/(E^{(2*a*d)}*x^{(2*b*d)})))^p), x], x] /$; FreeQ[{a, b, d, e, m}, x] && IntegerQ[p]

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6083. $\text{Int}[(e_{.})(x_{.})^{(m_{.})} \text{Sech}[(a_{.}) + \text{Log}[x_{.}](b_{.})](d_{.})^{(p_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Sech}[d(a + b \text{Log}[x])]^{(p)} ((1 + 1/(E^{(2a+d)} x^{(2b+d)}))^{(p/x^{(-b)d})}) \text{Int}[(e*x)^m (1/(x^{(b*d*p)} (1 + 1/(E^{(2*a*d)} x^{(2*b*d)})))^{(p)}], x], x] /; \text{FreeQ}\{a, b, d, e, m, p\}, x] \&\& \text{!IntegerQ}[p]$
6084. $\text{Int}[\text{Csch}[(a_{.}) + \text{Log}[x_{.}](b_{.})](d_{.})^{(p_{.})} ((e_{.})(x_{.})^{(m_{.})}), x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Csch}[d(a + b \text{Log}[x])]^{(p)} ((1 - 1/(E^{(2a+d)} x^{(2b+d)}))^{(p/x^{(-b)d})}) \text{Int}[(e*x)^m (1/(x^{(b*d*p)} (1 - 1/(E^{(2*a*d)} x^{(2*b*d)})))^{(p)}], x], x] /; \text{FreeQ}\{a, b, d, e, m, p\}, x] \&\& \text{!IntegerQ}[p]$
6085. $\text{Int}[(e_{.})(x_{.})^{(m_{.})} \text{Sech}[(a_{.}) + \text{Log}[(c_{.})(x_{.})^{(n_{.})}](b_{.})](d_{.})^{(p_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e*x)^{(m+1)} / (e*n*(c*x^n)^{(m+1)/n}) \text{Subst}[\text{Int}[x^{(m+1)/n - 1} \text{Sech}[d(a + b \text{Log}[x])]^{(p)}, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& (\text{NeQ}[c, 1] \mid \mid \text{NeQ}[n, 1])$
6086. $\text{Int}[\text{Csch}[(a_{.}) + \text{Log}[(c_{.})(x_{.})^{(n_{.})}](b_{.})](d_{.})^{(p_{.})} ((e_{.})(x_{.})^{(m_{.})}), x_{\text{Symbol}}] \rightarrow \text{Simp}[(e*x)^{(m+1)} / (e*n*(c*x^n)^{(m+1)/n}) \text{Subst}[\text{Int}[x^{(m+1)/n - 1} \text{Csch}[d(a + b \text{Log}[x])]^{(p)}, x], x, c*x^n], x] /; \text{FreeQ}\{a, b, c, d, e, m, n, p\}, x] \&\& (\text{NeQ}[c, 1] \mid \mid \text{NeQ}[n, 1])$
6087. $\text{Int}[\text{Log}[(b_{.})(x_{.})] \text{Sinh}[\text{Log}[(b_{.})(x_{.})](a_{.})(x_{.})], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Cosh}[a*x*\text{Log}[b*x]]/a, x] - \text{Int}[\text{Sinh}[a*x*\text{Log}[b*x]], x] /; \text{FreeQ}\{a, b\}, x]$
6088. $\text{Int}[\text{Cosh}[\text{Log}[(b_{.})(x_{.})](a_{.})(x_{.})] \text{Log}[(b_{.})(x_{.})], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Sinh}[a*x*\text{Log}[b*x]]/a, x] - \text{Int}[\text{Cosh}[a*x*\text{Log}[b*x]], x] /; \text{FreeQ}\{a, b\}, x]$
6089. $\text{Int}[\text{Log}[(b_{.})(x_{.})] (x_{.})^{(m_{.})} \text{Sinh}[\text{Log}[(b_{.})(x_{.})](a_{.})(x_{.})^{(n_{.})}], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Cosh}[a*x^n*\text{Log}[b*x]]/(a*n), x] - \text{Simp}[1/n \text{Int}[x^m * \text{Sinh}[a*x^n*\text{Log}[b*x]], x], x] /; \text{FreeQ}\{a, b, m, n\}, x] \&\& \text{EqQ}[m, n - 1]$

6090. $\text{Int}[\text{Cosh}[\text{Log}[(b_.)*(x_)]*(a_.)*(x_)^{(n_)}]*\text{Log}[(b_.)*(x_)]*(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[\text{Sinh}[a*x^n*\text{Log}[b*x]]/(a*n), x] - \text{Simp}[1/n \text{Int}[x^m * \text{Cosh}[a*x^n*\text{Log}[b*x]], x], x] /; \text{FreeQ}[\{a, b, m, n\}, x] \&\& \text{EqQ}[m, n - 1]$
6091. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*\text{Sinh}[(c_.) + (d_.)*(x_)]^{(n_)})/((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[1/b \text{Int}[(e + f*x)^m*\text{Sinh}[c + d*x]^{(n - 1)}, x], x] - \text{Simp}[a/b \text{Int}[(e + f*x)^m*(\text{Sinh}[c + d*x]^{(n - 1)})/(a + b*\text{Sinh}[c + d*x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
6092. $\text{Int}[(\text{Cosh}[(c_.) + (d_.)*(x_)]^{(n_)}*((e_.) + (f_.)*(x_))^{(m_)})/(\text{Cosh}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[1/b \text{Int}[(e + f*x)^m*\text{Cosh}[c + d*x]^{(n - 1)}, x], x] - \text{Simp}[a/b \text{Int}[(e + f*x)^m*(\text{Cosh}[c + d*x]^{(n - 1)})/(a + b*\text{Cosh}[c + d*x])], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0]$
6093. $\text{Int}[(\text{Cosh}[(c_.) + (d_.)*(x_)]*((e_.) + (f_.)*(x_))^{(m_)})/((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[-(e + f*x)^{(m + 1)}/(b*f*(m + 1)), x] + \text{Simp}[2 \text{Int}[(e + f*x)^m*(E^{(c + d*x)})/(a + b*E^{(c + d*x)})], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[a^2 + b^2, 0]$
6094. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*\text{Sinh}[(c_.) + (d_.)*(x_)])/(\text{Cosh}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[-(e + f*x)^{(m + 1)}/(b*f*(m + 1)), x] + \text{Simp}[2 \text{Int}[(e + f*x)^m*(E^{(c + d*x)})/(a + b*E^{(c + d*x)})], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[a^2 - b^2, 0]$
6095. $\text{Int}[(\text{Cosh}[(c_.) + (d_.)*(x_)]*((e_.) + (f_.)*(x_))^{(m_)})/((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[-(e + f*x)^{(m + 1)}/(b*f*(m + 1)), x] + (\text{Int}[(e + f*x)^m*(E^{(c + d*x)})/(a - \text{Rt}[a^2 + b^2, 2] + b*E^{(c + d*x)})], x] + \text{Int}[(e + f*x)^m*(E^{(c + d*x)})/(a + \text{Rt}[a^2 + b^2, 2] + b*E^{(c + d*x)})], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[a^2 + b^2, 0]$

6096. $\text{Int}[(((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(m_{\cdot})} \sinh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]) / (\cosh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})] (b_{\cdot}) + (a_{\cdot}))], x_{\text{Symbol}}] \rightarrow \text{Simp}[-(e + f x)^{(m + 1)} / (b f (m + 1)), x] + (\text{Int}[(e + f x)^m (E^{(c + d x)} / (a - \text{Rt}[a^2 - b^2, 2] + b E^{(c + d x)})), x] + \text{Int}[(e + f x)^m (E^{(c + d x)} / (a + \text{Rt}[a^2 - b^2, 2] + b E^{(c + d x)})), x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x\} \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{NeQ}[a^2 - b^2, 0]$
6097. $\text{Int}[(\cosh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]^{(n_{\cdot})} ((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}) / ((a_{\cdot}) + (b_{\cdot}) \sinh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})])], x_{\text{Symbol}}] \rightarrow \text{Simp}[1/a \ \text{Int}[(e + f x)^m \cosh[c + d x]^{(n - 2)}, x], x] + \text{Simp}[1/b \ \text{Int}[(e + f x)^m \cosh[c + d x]^{(n - 2)} \sinh[c + d x], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \ \&\& \ \text{IGtQ}[n, 1] \ \&\& \ \text{EqQ}[a^2 + b^2, 0]$
6098. $\text{Int}[(((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(m_{\cdot})} \sinh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]^{(n_{\cdot})}) / (\cosh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})] (b_{\cdot}) + (a_{\cdot}))], x_{\text{Symbol}}] \rightarrow \text{Simp}[-a^{(-1)} \ \text{Int}[(e + f x)^m \sinh[c + d x]^{(n - 2)}, x], x] + \text{Simp}[1/b \ \text{Int}[(e + f x)^m \sinh[c + d x]^{(n - 2)} \cosh[c + d x], x], x] /;$ $\text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \ \&\& \ \text{IGtQ}[n, 1] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
6099. $\text{Int}[(\cosh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]^{(n_{\cdot})} ((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}) / ((a_{\cdot}) + (b_{\cdot}) \sinh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})])], x_{\text{Symbol}}] \rightarrow \text{Simp}[-a/b^2 \ \text{Int}[(e + f x)^m \cosh[c + d x]^{(n - 2)}, x], x] + (\text{Simp}[1/b \ \text{Int}[(e + f x)^m \cosh[c + d x]^{(n - 2)} \sinh[c + d x], x], x] + \text{Simp}[(a^2 + b^2)/b^2 \ \text{Int}[(e + f x)^m (\cosh[c + d x]^{(n - 2)} / (a + b \sinh[c + d x])), x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x\} \ \&\& \ \text{IGtQ}[n, 1] \ \&\& \ \text{NeQ}[a^2 + b^2, 0] \ \&\& \ \text{IGtQ}[m, 0]$
6100. $\text{Int}[(((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(m_{\cdot})} \sinh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]^{(n_{\cdot})}) / (\cosh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})] (b_{\cdot}) + (a_{\cdot}))], x_{\text{Symbol}}] \rightarrow \text{Simp}[-a/b^2 \ \text{Int}[(e + f x)^m \sinh[c + d x]^{(n - 2)}, x], x] + (\text{Simp}[1/b \ \text{Int}[(e + f x)^m \sinh[c + d x]^{(n - 2)} \cosh[c + d x], x], x] + \text{Simp}[(a^2 - b^2)/b^2 \ \text{Int}[(e + f x)^m (\sinh[c + d x]^{(n - 2)} / (a + b \cosh[c + d x])), x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x\} \ \&\& \ \text{IGtQ}[n, 1] \ \&\& \ \text{NeQ}[a^2 - b^2, 0] \ \&\& \ \text{IGtQ}[m, 0]$
6101. $\text{Int}[(((e_{\cdot}) + (f_{\cdot})(x_{\cdot}))^{(m_{\cdot})} \tanh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})]^{(n_{\cdot})}) / ((a_{\cdot}) + (b_{\cdot}) \sinh[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})])], x_{\text{Symbol}}] \rightarrow \text{Simp}[1/b \ \text{Int}[(e + f x$

- $x)^m \operatorname{Sech}[c + d*x] \operatorname{Tanh}[c + d*x]^{(n-1)}, x], x] - \operatorname{Simp}[a/b \operatorname{Int}[(e + f*x)^m \operatorname{Sech}[c + d*x] * (\operatorname{Tanh}[c + d*x]^{(n-1)} / (a + b \operatorname{Sinh}[c + d*x])), x], x] /; \operatorname{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \operatorname{IGtQ}[m, 0] \&\& \operatorname{IGtQ}[n, 0]$
6102. $\operatorname{Int}[(\operatorname{Coth}[(c_.) + (d_.)*(x_.)]^{(n_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)}) / (\operatorname{Cosh}[(c_.) + (d_.)*(x_.)] * (b_.) + (a_.)), x_Symbol] \rightarrow \operatorname{Simp}[1/b \operatorname{Int}[(e + f*x)^m \operatorname{Csch}[c + d*x] * \operatorname{Coth}[c + d*x]^{(n-1)}, x], x] - \operatorname{Simp}[a/b \operatorname{Int}[(e + f*x)^m \operatorname{Csch}[c + d*x] * (\operatorname{Coth}[c + d*x]^{(n-1)} / (a + b \operatorname{Cosh}[c + d*x])), x], x] /; \operatorname{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \operatorname{IGtQ}[m, 0] \&\& \operatorname{IGtQ}[n, 0]$
6103. $\operatorname{Int}[(\operatorname{Coth}[(c_.) + (d_.)*(x_.)]^{(n_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)}) / ((a_.) + (b_.) * \operatorname{Sinh}[(c_.) + (d_.)*(x_.)]), x_Symbol] \rightarrow \operatorname{Simp}[1/a \operatorname{Int}[(e + f*x)^m \operatorname{Coth}[c + d*x]^n, x], x] - \operatorname{Simp}[b/a \operatorname{Int}[(e + f*x)^m \operatorname{Cosh}[c + d*x] * (\operatorname{Coth}[c + d*x]^{(n-1)} / (a + b \operatorname{Sinh}[c + d*x])), x], x] /; \operatorname{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \operatorname{IGtQ}[m, 0] \&\& \operatorname{IGtQ}[n, 0]$
6104. $\operatorname{Int}[(((e_.) + (f_.)*(x_.))^{(m_.)} * \operatorname{Tanh}[(c_.) + (d_.)*(x_.)]^{(n_.)}) / (\operatorname{Cosh}[(c_.) + (d_.)*(x_.)] * (b_.) + (a_.)), x_Symbol] \rightarrow \operatorname{Simp}[1/a \operatorname{Int}[(e + f*x)^m \operatorname{Tanh}[c + d*x]^n, x], x] - \operatorname{Simp}[b/a \operatorname{Int}[(e + f*x)^m \operatorname{Sinh}[c + d*x] * (\operatorname{Tanh}[c + d*x]^{(n-1)} / (a + b \operatorname{Cosh}[c + d*x])), x], x] /; \operatorname{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \operatorname{IGtQ}[m, 0] \&\& \operatorname{IGtQ}[n, 0]$
6105. $\operatorname{Int}[(((e_.) + (f_.)*(x_.))^{(m_.)} * \operatorname{Sech}[(c_.) + (d_.)*(x_.)]^{(n_.)}) / ((a_.) + (b_.) * \operatorname{Sinh}[(c_.) + (d_.)*(x_.)]), x_Symbol] \rightarrow \operatorname{Simp}[1/a \operatorname{Int}[(e + f*x)^m \operatorname{Sech}[c + d*x]^{(n+2)}, x], x] + \operatorname{Simp}[1/b \operatorname{Int}[(e + f*x)^m \operatorname{Sech}[c + d*x]^{(n+1)} * \operatorname{Tanh}[c + d*x], x], x] /; \operatorname{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \operatorname{IGtQ}[m, 0] \&\& \operatorname{EqQ}[a^2 + b^2, 0]$
6106. $\operatorname{Int}[(\operatorname{Csch}[(c_.) + (d_.)*(x_.)]^{(n_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)}) / (\operatorname{Cosh}[(c_.) + (d_.)*(x_.)] * (b_.) + (a_.)), x_Symbol] \rightarrow \operatorname{Simp}[-a^{(-1)} \operatorname{Int}[(e + f*x)^m \operatorname{Csch}[c + d*x]^{(n+2)}, x], x] + \operatorname{Simp}[1/b \operatorname{Int}[(e + f*x)^m \operatorname{Csch}[c + d*x]^{(n+1)} * \operatorname{Coth}[c + d*x], x], x] /; \operatorname{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \operatorname{IGtQ}[m, 0] \&\& \operatorname{EqQ}[a^2 - b^2, 0]$
6107. $\operatorname{Int}[(((e_.) + (f_.)*(x_.))^{(m_.)} * \operatorname{Sech}[(c_.) + (d_.)*(x_.)]^{(n_.)}) / ((a_.) + (b_.) * \operatorname{Sinh}[(c_.) + (d_.)*(x_.)]), x_Symbol] \rightarrow \operatorname{Simp}[b^2 / (a^2 + b^2) \operatorname{Int}[(e + f*x)^m * (\operatorname{Sech}[c + d*x]^{(n-2)} / (a + b \operatorname{Sinh}[c + d*x])), x], x]$

- $$+ \text{Simp}[1/(a^2 + b^2) \text{ Int}[(e + f*x)^m \text{Sech}[c + d*x]^n (a - b \text{Sinh}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{IGtQ}\{m, 0\} \&\& \text{NeQ}\{a^2 + b^2, 0\} \&\& \text{IGtQ}\{n, 0\}$$
6108.
$$\text{Int}[(\text{Csch}[(c_.) + (d_.)*(x_.)]^{(n_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)}) / (\text{Cosh}[(c_.) + (d_.)*(x_.)] * (b_.) + (a_.)), x_Symbol] \rightarrow \text{Simp}[b^2/(a^2 - b^2) \text{ Int}[(e + f*x)^m * (\text{Csch}[c + d*x]^{(n - 2)} / (a + b \text{Cosh}[c + d*x])), x], x] + \text{Simp}[1/(a^2 - b^2) \text{ Int}[(e + f*x)^m * \text{Csch}[c + d*x]^n (a - b \text{Cosh}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{IGtQ}\{m, 0\} \&\& \text{NeQ}\{a^2 - b^2, 0\} \&\& \text{IGtQ}\{n, 0\}$$
6109.
$$\text{Int}[(\text{Csch}[(c_.) + (d_.)*(x_.)]^{(n_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)}) / ((a_.) + (b_.) * \text{Sinh}[(c_.) + (d_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m * \text{Csch}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m * (\text{Csch}[c + d*x]^{(n - 1)} / (a + b \text{Sinh}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{IGtQ}\{m, 0\} \&\& \text{IGtQ}\{n, 0\}$$
6110.
$$\text{Int}[(\text{Csch}[(c_.) + (d_.)*(x_.)]^{(n_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)} * \text{Sech}[(c_.) + (d_.)*(x_.)]^{(n_.)}) / (\text{Cosh}[(c_.) + (d_.)*(x_.)] * (b_.) + (a_.)), x_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m * \text{Sech}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m * (\text{Sech}[c + d*x]^{(n - 1)} / (a + b \text{Cosh}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{IGtQ}\{m, 0\} \&\& \text{IGtQ}\{n, 0\}$$
6111.
$$\text{Int}[(\text{Csch}[(c_.) + (d_.)*(x_.)]^{(n_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)} * (F_.)[(c_.) + (d_.)*(x_.)]^{(n_.)}) / ((a_.) + (b_.) * \text{Sinh}[(c_.) + (d_.)*(x_.)]), x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^m * F[c + d*x]^n / (a + b \text{Sinh}[c + d*x]), x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& \text{HyperbolicQ}\{F\}$$
6112.
$$\text{Int}[(\text{Csch}[(c_.) + (d_.)*(x_.)]^{(n_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)} * (F_.)[(c_.) + (d_.)*(x_.)]^{(n_.)}) / (\text{Cosh}[(c_.) + (d_.)*(x_.)] * (b_.) + (a_.)), x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^m * F[c + d*x]^n / (a + b \text{Cosh}[c + d*x]), x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x\} \&\& \text{HyperbolicQ}\{F\}$$
6113.
$$\text{Int}[(\text{Cosh}[(c_.) + (d_.)*(x_.)]^{(p_.)} * ((e_.) + (f_.)*(x_.))^{(m_.)} * \text{Sinh}[(c_.) + (d_.)*(x_.)]^{(n_.)}) / ((a_.) + (b_.) * \text{Sinh}[(c_.) + (d_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[1/b \text{ Int}[(e + f*x)^m * \text{Cosh}[c + d*x]^p * \text{Sinh}[c + d*x]^{(n - 1)}, x], x] - \text{Simp}[a/b \text{ Int}[(e + f*x)^m * \text{Cosh}[c + d*x]^p * (\text{Sinh}[c + d*x]$$

- $$\int \frac{dx}{(a + b \sinh(c + dx))^n} \int \frac{dx}{(a + b \sinh(c + dx))^m} \int \frac{dx}{(a + b \sinh(c + dx))^p}$$
6114. $\text{Int}[(\text{Cosh}[(c_.) + (d_.)*(x_)]^{(n_)}*((e_.) + (f_.)*(x_))^{(m_)}*\text{Sinh}[(c_.) + (d_.)*(x_)]^{(p_)}]/(\text{Cosh}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[1/b \int (e + f*x)^m*\text{Sinh}[c + d*x]^p*\text{Cosh}[c + d*x]^{(n - 1)}, x], x] - \text{Simp}[a/b \int (e + f*x)^m*\text{Sinh}[c + d*x]^p*(\text{Cosh}[c + d*x]^{(n - 1)/(a + b*\text{Cosh}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
6115. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*\text{Sinh}[(c_.) + (d_.)*(x_)]^{(p_)}*\text{Tanh}[(c_.) + (d_.)*(x_)]^{(n_)}]/((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[1/b \int (e + f*x)^m*\text{Sinh}[c + d*x]^{(p - 1)}*\text{Tanh}[c + d*x]^n, x], x] - \text{Simp}[a/b \int (e + f*x)^m*\text{Sinh}[c + d*x]^{(p - 1)}*(\text{Tanh}[c + d*x]^n/(a + b*\text{Sinh}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
6116. $\text{Int}[(\text{Cosh}[(c_.) + (d_.)*(x_)]^{(p_)}*\text{Coth}[(c_.) + (d_.)*(x_)]^{(n_)}*((e_.) + (f_.)*(x_))^{(m_)}]/(\text{Cosh}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[1/b \int (e + f*x)^m*\text{Cosh}[c + d*x]^{(p - 1)}*\text{Coth}[c + d*x]^n, x], x] - \text{Simp}[a/b \int (e + f*x)^m*\text{Cosh}[c + d*x]^{(p - 1)}*(\text{Coth}[c + d*x]^n/(a + b*\text{Cosh}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
6117. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*\text{Sech}[(c_.) + (d_.)*(x_)]^{(p_)}*\text{Tanh}[(c_.) + (d_.)*(x_)]^{(n_)}]/((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)]), x_Symbol] \rightarrow \text{Simp}[1/b \int (e + f*x)^m*\text{Sech}[c + d*x]^{(p + 1)}*\text{Tanh}[c + d*x]^{(n - 1)}, x], x] - \text{Simp}[a/b \int (e + f*x)^m*\text{Sech}[c + d*x]^{(p + 1)}*(\text{Tanh}[c + d*x]^{(n - 1)/(a + b*\text{Sinh}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
6118. $\text{Int}[(\text{Coth}[(c_.) + (d_.)*(x_)]^{(n_)}*\text{Csch}[(c_.) + (d_.)*(x_)]^{(p_)}*((e_.) + (f_.)*(x_))^{(m_)}]/(\text{Cosh}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[1/b \int (e + f*x)^m*\text{Csch}[c + d*x]^{(p + 1)}*\text{Coth}[c + d*x]^{(n - 1)}, x], x] - \text{Simp}[a/b \int (e + f*x)^m*\text{Csch}[c + d*x]^{(p + 1)}*(\text{Coth}[c + d*x]^{(n - 1)/(a + b*\text{Cosh}[c + d*x])), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$

6119. $\text{Int}[(\text{Cosh}[c_.] + (d_.)(x_.)]^{(p_.)} \text{Coth}[(c_.) + (d_.)(x_.)]^{(n_.)} ((e_.) + (f_.)(x_.))^{(m_.)} / ((a_.) + (b_.)\text{Sinh}[(c_.) + (d_.)(x_.)])$, x_Symbol] $\rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m \text{Cosh}[c + d*x]^p \text{Coth}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m \text{Cosh}[c + d*x]^{(p + 1)} (\text{Coth}[c + d*x]^{(n - 1)} / (a + b*\text{Sinh}[c + d*x]))], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && IGtQ[n, 0] && IGtQ[p, 0]
6120. $\text{Int}[(((e_.) + (f_.)(x_.))^{(m_.)} \text{Sinh}[(c_.) + (d_.)(x_.)]^{(p_.)} \text{Tanh}[(c_.) + (d_.)(x_.)]^{(n_.)}) / (\text{Cosh}[(c_.) + (d_.)(x_.)]*(b_.) + (a_.))$, x_Symbol] $\rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m \text{Sinh}[c + d*x]^p \text{Tanh}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m \text{Sinh}[c + d*x]^{(p + 1)} (\text{Tanh}[c + d*x]^{(n - 1)} / (a + b*\text{Cosh}[c + d*x]))], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && IGtQ[n, 0] && IGtQ[p, 0]
6121. $\text{Int}[(\text{Coth}[(c_.) + (d_.)(x_.)]^{(n_.)} \text{Csch}[(c_.) + (d_.)(x_.)]^{(p_.)} ((e_.) + (f_.)(x_.))^{(m_.)}) / ((a_.) + (b_.)\text{Sinh}[(c_.) + (d_.)(x_.)])$, x_Symbol] $\rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m \text{Csch}[c + d*x]^p \text{Coth}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m \text{Csch}[c + d*x]^{(p - 1)} (\text{Coth}[c + d*x]^n / (a + b*\text{Sinh}[c + d*x]))], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && IGtQ[n, 0] && IGtQ[p, 0]
6122. $\text{Int}[(((e_.) + (f_.)(x_.))^{(m_.)} \text{Sech}[(c_.) + (d_.)(x_.)]^{(p_.)} \text{Tanh}[(c_.) + (d_.)(x_.)]^{(n_.)}) / (\text{Cosh}[(c_.) + (d_.)(x_.)]*(b_.) + (a_.))$, x_Symbol] $\rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m \text{Sech}[c + d*x]^p \text{Tanh}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m \text{Sech}[c + d*x]^{(p - 1)} (\text{Tanh}[c + d*x]^n / (a + b*\text{Cosh}[c + d*x]))], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && IGtQ[n, 0] && IGtQ[p, 0]
6123. $\text{Int}[(\text{Csch}[(c_.) + (d_.)(x_.)]^{(n_.)} ((e_.) + (f_.)(x_.))^{(m_.)} \text{Sech}[(c_.) + (d_.)(x_.)]^{(p_.)}) / ((a_.) + (b_.)\text{Sinh}[(c_.) + (d_.)(x_.)])$, x_Symbol] $\rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m \text{Sech}[c + d*x]^p \text{Csch}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m \text{Sech}[c + d*x]^p (\text{Csch}[c + d*x]^{(n - 1)} / (a + b*\text{Sinh}[c + d*x]))], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && IGtQ[n, 0] && IGtQ[p, 0]

6124. $\text{Int}[(\text{Csch}[(c_.) + (d_.)*(x_)]^{(p_)}*((e_.) + (f_.)*(x_))^{(m_)}*\text{Sech}[(c_.) + (d_.)*(x_)]^{(n_)}]/(\text{Cosh}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[(e + f*x)^m*\text{Csch}[c + d*x]^p*\text{Sech}[c + d*x]^n, x], x] - \text{Simp}[b/a \text{ Int}[(e + f*x)^m*\text{Csch}[c + d*x]^p*(\text{Sech}[c + d*x]^{(n-1)})/(a + b*\text{Cosh}[c + d*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0]$
6125. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*(F_)[(c_.) + (d_.)*(x_)]^{(n_)}*(G_)[(c_.) + (d_.)*(x_)]^{(p_)}]/((a_.) + (b_.)*\text{Sinh}[(c_.) + (d_.)*(x_)]), x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^m*F[c + d*x]^n*G[c + d*x]^p/(a + b*\text{Sinh}[c + d*x]), x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{HyperbolicQ}[F] \&\& \text{HyperbolicQ}[G]$
6126. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*(F_)[(c_.) + (d_.)*(x_)]^{(n_)}*(G_)[(c_.) + (d_.)*(x_)]^{(p_)}]/(\text{Cosh}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^m*F[c + d*x]^n*G[c + d*x]^p/(a + b*\text{Cosh}[c + d*x]), x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x] \&\& \text{HyperbolicQ}[F] \&\& \text{HyperbolicQ}[G]$
6127. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*(F_)[(c_.) + (d_.)*(x_)]^{(n_)}]/((a_.) + (b_.)*\text{Sech}[(c_.) + (d_.)*(x_)]), x_Symbol] \rightarrow \text{Int}[(e + f*x)^m*\text{Cosh}[c + d*x]*(F[c + d*x]^n/(b + a*\text{Cosh}[c + d*x])), x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{HyperbolicQ}[F] \&\& \text{IntegersQ}[m, n]$
6128. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*(F_)[(c_.) + (d_.)*(x_)]^{(n_)}]/(\text{Csch}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol] \rightarrow \text{Int}[(e + f*x)^m*\text{Sinh}[c + d*x]*(F[c + d*x]^n/(b + a*\text{Sinh}[c + d*x])), x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{HyperbolicQ}[F] \&\& \text{IntegersQ}[m, n]$
6129. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*(F_)[(c_.) + (d_.)*(x_)]^{(n_)}*(G_)[(c_.) + (d_.)*(x_)]^{(p_)}]/((a_.) + (b_.)*\text{Sech}[(c_.) + (d_.)*(x_)]), x_Symbol] \rightarrow \text{Int}[(e + f*x)^m*\text{Cosh}[c + d*x]*F[c + d*x]^n*(G[c + d*x]^p/(b + a*\text{Cosh}[c + d*x])), x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{HyperbolicQ}[F] \&\& \text{HyperbolicQ}[G] \&\& \text{IntegersQ}[m, n, p]$
6130. $\text{Int}[(((e_.) + (f_.)*(x_))^{(m_)}*(F_)[(c_.) + (d_.)*(x_)]^{(n_)}*(G_)[(c_.) + (d_.)*(x_)]^{(p_)}]/(\text{Csch}[(c_.) + (d_.)*(x_)]*(b_.) + (a_)), x_Symbol]$

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mbol] := Int[(e + f*x)^m*Sinh[c + d*x]*F[c + d*x]^n*(G[c + d*x]^p/(b +
 a*Sinh[c + d*x])), x] /; FreeQ[{a, b, c, d, e, f}, x] && HyperbolicQ[
F] && HyperbolicQ[G] && IntegersQ[m, n, p]

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6131.  $\text{Int}[\text{Sinh}[a_.] + (b_.)(x_.)]^{(p_.)} \text{Sinh}[(c_.) + (d_.)(x_.)]^{(q_.)}, x\_S$   
 $\text{ymbol}] := \text{Simp}[1/2^{(p+q)} \text{Int}[\text{ExpandIntegrand}[(-E^{(-c-d*x)} + E^{(c+d*x)})^q, (-E^{(-a-b*x)} + E^{(a+b*x)})^p, x], x], x] /; \text{FreeQ}[\{a, b,$   
 $c, d, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{!IntegerQ}[q]$
6132.  $\text{Int}[\text{Cosh}[a_.] + (b_.)(x_.)]^{(p_.)} \text{Cosh}[(c_.) + (d_.)(x_.)]^{(q_.)}, x\_S$   
 $\text{ymbol}] := \text{Simp}[1/2^{(p+q)} \text{Int}[\text{ExpandIntegrand}[(E^{(-c-d*x)} + E^{(c+d*x)})^q, (E^{(-a-b*x)} + E^{(a+b*x)})^p, x], x], x] /; \text{FreeQ}[\{a, b,$   
 $c, d, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{!IntegerQ}[q]$
6133.  $\text{Int}[\text{Cosh}[(c_.) + (d_.)(x_.)]^{(q_.)} \text{Sinh}[a_.] + (b_.)(x_.)]^{(p_.)}, x\_S$   
 $\text{ymbol}] := \text{Simp}[1/2^{(p+q)} \text{Int}[\text{ExpandIntegrand}[(E^{(-c-d*x)} + E^{(c+d*x)})^q, (-E^{(-a-b*x)} + E^{(a+b*x)})^p, x], x], x] /; \text{FreeQ}[\{a, b,$   
 $c, d, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{!IntegerQ}[q]$
6134.  $\text{Int}[\text{Cosh}[a_.] + (b_.)(x_.)]^{(p_.)} \text{Sinh}[(c_.) + (d_.)(x_.)]^{(q_.)}, x\_S$   
 $\text{ymbol}] := \text{Simp}[1/2^{(p+q)} \text{Int}[\text{ExpandIntegrand}[(-E^{(-c-d*x)} + E^{(c+d*x)})^q, (E^{(-a-b*x)} + E^{(a+b*x)})^p, x], x], x] /; \text{FreeQ}[\{a, b,$   
 $c, d, q\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{!IntegerQ}[q]$
6135.  $\text{Int}[\text{Sinh}[a_.] + (b_.)(x_.)] * \text{Tanh}[(c_.) + (d_.)(x_.)], x\_Symbol] := \text{Int}$   
 $\text{t}[-E^{(-a-b*x)}/2 + E^{(a+b*x)}/2 + 1/(E^{(a+b*x)}*(1 + E^{(2*(c+d*x))})) - E^{(a+b*x)}/(1 + E^{(2*(c+d*x))}), x] /; \text{FreeQ}[\{a, b, c, d\}, x$   
 $] \&\& \text{NeQ}[b^2 - d^2, 0]$
6136.  $\text{Int}[\text{Cosh}[a_.] + (b_.)(x_.)] * \text{Coth}[(c_.) + (d_.)(x_.)], x\_Symbol] := \text{Int}$   
 $\text{t}[1/(E^{(a+b*x)*2} + E^{(a+b*x)}/2 - 1/(E^{(a+b*x)}*(1 - E^{(2*(c+d*x))})) - E^{(a+b*x)}/(1 - E^{(2*(c+d*x))}), x] /; \text{FreeQ}[\{a, b, c, d\}, x$   
 $] \&\& \text{NeQ}[b^2 - d^2, 0]$
6137.  $\text{Int}[\text{Coth}[(c_.) + (d_.)(x_.)] * \text{Sinh}[a_.] + (b_.)(x_.)], x\_Symbol] := \text{Int}$   
 $\text{t}[-E^{(-a-b*x)}/2 + E^{(a+b*x)}/2 + 1/(E^{(a+b*x)}*(1 - E^{(2*(c+d*x))})) - E^{(a+b*x)}/(1 - E^{(2*(c+d*x))}), x] /; \text{FreeQ}[\{a, b, c, d\}, x$

- $x)))) - E^{(a + b*x)/(1 - E^{(2*(c + d*x))})}$ , x] /; FreeQ[{a, b, c, d}, x] && NeQ[b^2 - d^2, 0]
6138. Int[Cosh[(a\_.) + (b\_.)\*(x\_)]\*Tanh[(c\_.) + (d\_.)\*(x\_)], x\_Symbol] := Int[1/(E^{(a + b\*x)\*2} + E^{(a + b\*x)/2} - 1/(E^{(a + b\*x)\*(1 + E^{(2\*(c + d\*x))})}) - E^{(a + b\*x)/(1 + E^{(2\*(c + d\*x))})})}, x] /; FreeQ[{a, b, c, d}, x] && NeQ[b^2 - d^2, 0]
6139. Int[Sinh[(a\_.)/((c\_.) + (d\_.)\*(x\_))]^(n\_.), x\_Symbol] := Simp[-d^(-1) Subst[Int[Sinh[a\*x]^n/x^2, x], x, 1/(c + d\*x)], x] /; FreeQ[{a, c, d}, x] && IGtQ[n, 0]
6140. Int[Cosh[(a\_.)/((c\_.) + (d\_.)\*(x\_))]^(n\_.), x\_Symbol] := Simp[-d^(-1) Subst[Int[Cosh[a\*x]^n/x^2, x], x, 1/(c + d\*x)], x] /; FreeQ[{a, c, d}, x] && IGtQ[n, 0]
6141. Int[Sinh[((e\_.)\*((a\_.) + (b\_.)\*(x\_)))/((c\_.) + (d\_.)\*(x\_))]^(n\_.), x\_Symbol] := Simp[-d^(-1) Subst[Int[Sinh[b\*(e/d) - e\*(b\*c - a\*d)\*(x/d)]^n/x^2, x], x, 1/(c + d\*x)], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[n, 0] && NeQ[b\*c - a\*d, 0]
6142. Int[Cosh[((e\_.)\*((a\_.) + (b\_.)\*(x\_)))/((c\_.) + (d\_.)\*(x\_))]^(n\_.), x\_Symbol] := Simp[-d^(-1) Subst[Int[Cosh[b\*(e/d) - e\*(b\*c - a\*d)\*(x/d)]^n/x^2, x], x, 1/(c + d\*x)], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[n, 0] && NeQ[b\*c - a\*d, 0]
6143. Int[Sinh[u\_]^(n\_.), x\_Symbol] := With[{lst = QuotientOfLinearsParts[u, x]}, Int[Sinh[(lst[[1]] + lst[[2]]\*x)/(lst[[3]] + lst[[4]]\*x)]^n, x] /; IGtQ[n, 0] && QuotientOfLinearsQ[u, x]
6144. Int[Cosh[u\_]^(n\_.), x\_Symbol] := With[{lst = QuotientOfLinearsParts[u, x]}, Int[Cosh[(lst[[1]] + lst[[2]]\*x)/(lst[[3]] + lst[[4]]\*x)]^n, x] /; IGtQ[n, 0] && QuotientOfLinearsQ[u, x]
6145. Int[(u\_.)\*Sinh[v\_]^(p\_.)\*Sinh[w\_]^(q\_.), x\_Symbol] := Int[u\*Sinh[v]^(p + q), x] /; EqQ[w, v]

6146.  $\text{Int}[\text{Cosh}[v\_ ]^{\text{p}\_ .} * \text{Cosh}[w\_ ]^{\text{q}\_ .} * (u\_ .), x\_ \text{Symbol}] \rightarrow \text{Int}[u * \text{Cosh}[v]^{\text{p} + \text{q}}, x] /; \text{EqQ}[w, v]$
6147.  $\text{Int}[\text{Sinh}[v\_ ]^{\text{p}\_ .} * \text{Sinh}[w\_ ]^{\text{q}\_ .}, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Sinh}[v]^{\text{p}} * \text{Sinh}[w]^{\text{q}}, x], x] /; \text{IGtQ}[\text{p}, 0] \&\& \text{IGtQ}[\text{q}, 0] \&\& ((\text{PolynomialQ}[v, x] \&\& \text{PolynomialQ}[w, x]) \mid\mid (\text{BinomialQ}[\{v, w\}, x] \&\& \text{IndependentQ}[\text{Cancel}[v/w], x]))$
6148.  $\text{Int}[\text{Cosh}[v\_ ]^{\text{p}\_ .} * \text{Cosh}[w\_ ]^{\text{q}\_ .}, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Cosh}[v]^{\text{p}} * \text{Cosh}[w]^{\text{q}}, x], x] /; \text{IGtQ}[\text{p}, 0] \&\& \text{IGtQ}[\text{q}, 0] \&\& ((\text{PolynomialQ}[v, x] \&\& \text{PolynomialQ}[w, x]) \mid\mid (\text{BinomialQ}[\{v, w\}, x] \&\& \text{IndependentQ}[\text{Cancel}[v/w], x]))$
6149.  $\text{Int}[(x\_ )^{\text{m}\_ .} * \text{Sinh}[v\_ ]^{\text{p}\_ .} * \text{Sinh}[w\_ ]^{\text{q}\_ .}, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[x^{\text{m}}, \text{Sinh}[v]^{\text{p}} * \text{Sinh}[w]^{\text{q}}, x], x] /; \text{IGtQ}[\text{m}, 0] \&\& \text{IGtQ}[\text{p}, 0] \&\& \text{IGtQ}[\text{q}, 0] \&\& ((\text{PolynomialQ}[v, x] \&\& \text{PolynomialQ}[w, x]) \mid\mid (\text{BinomialQ}[\{v, w\}, x] \&\& \text{IndependentQ}[\text{Cancel}[v/w], x]))$
6150.  $\text{Int}[\text{Cosh}[v\_ ]^{\text{p}\_ .} * \text{Cosh}[w\_ ]^{\text{q}\_ .} * (x\_ )^{\text{m}\_ .}, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[x^{\text{m}}, \text{Cosh}[v]^{\text{p}} * \text{Cosh}[w]^{\text{q}}, x], x] /; \text{IGtQ}[\text{m}, 0] \&\& \text{IGtQ}[\text{p}, 0] \&\& \text{IGtQ}[\text{q}, 0] \&\& ((\text{PolynomialQ}[v, x] \&\& \text{PolynomialQ}[w, x]) \mid\mid (\text{BinomialQ}[\{v, w\}, x] \&\& \text{IndependentQ}[\text{Cancel}[v/w], x]))$
6151.  $\text{Int}[\text{Cosh}[w\_ ]^{\text{p}\_ .} * (u\_ .) * \text{Sinh}[v\_ ]^{\text{p}\_ .}, x\_ \text{Symbol}] \rightarrow \text{Simp}[1/2^{\text{p}} \text{Int}[u * \text{Sinh}[2*v]^{\text{p}}, x], x] /; \text{EqQ}[w, v] \&\& \text{IntegerQ}[\text{p}]$
6152.  $\text{Int}[\text{Cosh}[w\_ ]^{\text{q}\_ .} * \text{Sinh}[v\_ ]^{\text{p}\_ .}, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[\text{Sinh}[v]^{\text{p}} * \text{Cosh}[w]^{\text{q}}, x], x] /; \text{IGtQ}[\text{p}, 0] \&\& \text{IGtQ}[\text{q}, 0] \&\& ((\text{PolynomialQ}[v, x] \&\& \text{PolynomialQ}[w, x]) \mid\mid (\text{BinomialQ}[\{v, w\}, x] \&\& \text{IndependentQ}[\text{Cancel}[v/w], x]))$
6153.  $\text{Int}[\text{Cosh}[w\_ ]^{\text{q}\_ .} * (x\_ )^{\text{m}\_ .} * \text{Sinh}[v\_ ]^{\text{p}\_ .}, x\_ \text{Symbol}] \rightarrow \text{Int}[\text{ExpandTrigReduce}[x^{\text{m}}, \text{Sinh}[v]^{\text{p}} * \text{Cosh}[w]^{\text{q}}, x], x] /; \text{IGtQ}[\text{m}, 0] \&\& \text{IGtQ}[\text{p}, 0] \&\& \text{IGtQ}[\text{q}, 0] \&\& ((\text{PolynomialQ}[v, x] \&\& \text{PolynomialQ}[w, x]) \mid\mid (\text{BinomialQ}[\{v, w\}, x] \&\& \text{IndependentQ}[\text{Cancel}[v/w], x]))$

alQ[{v, w}, x] && IndependentQ[Cancel[v/w], x])

6154. Int[Sinh[v\_]\*Tanh[w\_]^(n\_.), x\_Symbol] := Int[Cosh[v]\*Tanh[w]^(n - 1), x] - Simp[Cosh[v - w] Int[Sech[w]\*Tanh[w]^(n - 1), x], x] /; GtQ[n, 0] && NeQ[w, v] && FreeQ[v - w, x]

6155. Int[Cosh[v\_]\*Coth[w\_]^(n\_.), x\_Symbol] := Int[Sinh[v]\*Coth[w]^(n - 1), x] + Simp[Cosh[v - w] Int[Csch[w]\*Coth[w]^(n - 1), x], x] /; GtQ[n, 0] && NeQ[w, v] && FreeQ[v - w, x]

6156. Int[Coth[w\_]^(n\_.)\*Sinh[v\_], x\_Symbol] := Int[Cosh[v]\*Coth[w]^(n - 1), x] + Simp[Sinh[v - w] Int[Csch[w]\*Coth[w]^(n - 1), x], x] /; GtQ[n, 0] && NeQ[w, v] && FreeQ[v - w, x]

6157. Int[Cosh[v\_]\*Tanh[w\_]^(n\_.), x\_Symbol] := Int[Sinh[v]\*Tanh[w]^(n - 1), x] - Simp[Sinh[v - w] Int[Sech[w]\*Tanh[w]^(n - 1), x], x] /; GtQ[n, 0] && NeQ[w, v] && FreeQ[v - w, x]

6158. Int[Sech[w\_]^(n\_.)\*Sinh[v\_], x\_Symbol] := Simp[Cosh[v - w] Int[Tanh[w]\*Sech[w]^(n - 1), x], x] + Simp[Sinh[v - w] Int[Sech[w]^(n - 1), x], x] /; GtQ[n, 0] && NeQ[w, v] && FreeQ[v - w, x]

6159. Int[Cosh[v\_]\*Csch[w\_]^(n\_.), x\_Symbol] := Simp[Cosh[v - w] Int[Coth[w]\*Csch[w]^(n - 1), x], x] + Simp[Sinh[v - w] Int[Csch[w]^(n - 1), x], x] /; GtQ[n, 0] && NeQ[w, v] && FreeQ[v - w, x]

6160. Int[Csch[w\_]^(n\_.)\*Sinh[v\_], x\_Symbol] := Simp[Sinh[v - w] Int[Coth[w]\*Csch[w]^(n - 1), x], x] + Simp[Cosh[v - w] Int[Csch[w]^(n - 1), x], x] /; GtQ[n, 0] && NeQ[w, v] && FreeQ[v - w, x]

6161. Int[Cosh[v\_]\*Sech[w\_]^(n\_.), x\_Symbol] := Simp[Sinh[v - w] Int[Tanh[w]\*Sech[w]^(n - 1), x], x] + Simp[Cosh[v - w] Int[Sech[w]^(n - 1), x], x] /; GtQ[n, 0] && NeQ[w, v] && FreeQ[v - w, x]

6162. Int[((e\_.) + (f\_.)\*(x\_))^(m\_.)\*((a\_.) + Cosh[(c\_.) + (d\_.)\*(x\_)])\*(b\_.)\*Sinh[(c\_.) + (d\_.)\*(x\_)])^(n\_.), x\_Symbol] := Int[(e + f\*x)^m\*(a + b\*(

- $\text{Sinh}[2*c + 2*d*x]/2)^n, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n\}, x]$
6163.  $\text{Int}[(x_)^{(m_.)} * ((a_) + (b_.) * \text{Sinh}[(c_) + (d_.) * (x_)]^2)^{(n_)}, x\_Symbol] \rightarrow \text{Simp}[1/2^n \text{Int}[x^m * (2*a - b + b * \text{Cosh}[2*c + 2*d*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a - b, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{ILtQ}[n, 0] \&\& (\text{EqQ}[n, -1] \mid \mid (\text{EqQ}[m, 1] \&\& \text{EqQ}[n, -2]))$
6164.  $\text{Int}[(\text{Cosh}[(c_) + (d_.) * (x_)]^2 * (b_.) + (a_))^{(n_)} * (x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2^n \text{Int}[x^m * (2*a + b + b * \text{Cosh}[2*c + 2*d*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{NeQ}[a - b, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{ILtQ}[n, 0] \&\& (\text{EqQ}[n, -1] \mid \mid (\text{EqQ}[m, 1] \&\& \text{EqQ}[n, -2]))$
6165.  $\text{Int}[(f_.) + (g_.) * (x_)]^{(m_.)} / ((a_.) + \text{Cosh}[(d_.) + (e_.) * (x_)]^2 * (b_.) + (c_.) * \text{Sinh}[(d_.) + (e_.) * (x_)]^2), x\_Symbol] \rightarrow \text{Simp}[2 \text{Int}[(f + g*x)^m / (2*a + b - c + (b + c) * \text{Cosh}[2*d + 2*e*x]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[a + b, 0] \&\& \text{NeQ}[a + c, 0]$
6166.  $\text{Int}[(f_.) + (g_.) * (x_)]^{(m_.)} * \text{Sech}[(d_.) + (e_.) * (x_)]^2 / ((b_.) + (c_.) * \text{Tanh}[(d_.) + (e_.) * (x_)]^2), x\_Symbol] \rightarrow \text{Simp}[2 \text{Int}[(f + g*x)^m / (b - c + (b + c) * \text{Cosh}[2*d + 2*e*x]), x], x] /; \text{FreeQ}[\{b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[m, 0]$
6167.  $\text{Int}[(f_.) + (g_.) * (x_)]^{(m_.)} * \text{Sech}[(d_.) + (e_.) * (x_)]^2 / ((b_.) + (a_.) * \text{Sech}[(d_.) + (e_.) * (x_)]^2 + (c_.) * \text{Tanh}[(d_.) + (e_.) * (x_)]^2), x\_Symbol] \rightarrow \text{Simp}[2 \text{Int}[(f + g*x)^m / (2*a + b - c + (b + c) * \text{Cosh}[2*d + 2*e*x]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[a + b, 0] \&\& \text{NeQ}[a + c, 0]$
6168.  $\text{Int}[(\text{Csch}[(d_.) + (e_.) * (x_)]^2 * ((f_.) + (g_.) * (x_)]^{(m_.)}) / (\text{Coth}[(d_.) + (e_.) * (x_)]^2 * (b_.) + (c_)), x\_Symbol] \rightarrow \text{Simp}[2 \text{Int}[(f + g*x)^m / (b - c + (b + c) * \text{Cosh}[2*d + 2*e*x]), x], x] /; \text{FreeQ}[\{b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[m, 0]$
6169.  $\text{Int}[(\text{Csch}[(d_.) + (e_.) * (x_)]^2 * ((f_.) + (g_.) * (x_)]^{(m_.)}) / (\text{Csch}[(d_.) + (e_.) * (x_)]^2 * (a_.) + \text{Coth}[(d_.) + (e_.) * (x_)]^2 * (b_.) + (c_)), x\_Symbol] \rightarrow \text{Simp}[2 \text{Int}[(f + g*x)^m / (2*a + b - c + (b + c) * \text{Cosh}[2*d +$

- $2e^x$ ),  $x$ ],  $x$ ] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[m, 0] && NeQ[a + b, 0] && NeQ[a + c, 0]
6170. Int[(((e\_) + (f\_)\*(x\_))\*((A\_) + (B\_)\*Sinh[(c\_) + (d\_)\*(x\_)]))/((a\_) + (b\_)\*Sinh[(c\_) + (d\_)\*(x\_)])^2, x\_Symbol] :> Simp[B\*(e + f\*x)\*(Cosh[c + d\*x]/(a\*d\*(a + b\*Sinh[c + d\*x]))), x] - Simp[B\*(f/(a\*d)) Int[Cosh[c + d\*x]/(a + b\*Sinh[c + d\*x]), x], x] /; FreeQ[{a, b, c, d, e, f, A, B}, x] && EqQ[a\*A + b\*B, 0]
6171. Int[(((Cosh[(c\_) + (d\_)\*(x\_)])\*(B\_) + (A\_))\*((e\_) + (f\_)\*(x\_)))/(Cosh[(c\_) + (d\_)\*(x\_)])\*(b\_) + (a\_))^2, x\_Symbol] :> Simp[B\*(e + f\*x)\*(Sinh[c + d\*x]/(a\*d\*(a + b\*Cosh[c + d\*x]))), x] - Simp[B\*(f/(a\*d)) Int[Sinh[c + d\*x]/(a + b\*Cosh[c + d\*x]), x], x] /; FreeQ[{a, b, c, d, e, f, A, B}, x] && EqQ[a\*A - b\*B, 0]
6172. Int[((e\_) + (f\_)\*(x\_))^(m\_)\*Sinh[(a\_) + (b\_)\*((c\_) + (d\_)\*(x\_))]^(n\_)^(p\_), x\_Symbol] :> Simp[1/d^(m + 1) Subst[Int[(d\*e - c\*f + f\*x)^m\*Sinh[a + b\*x^n]^p, x], x, c + d\*x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && IGtQ[m, 0] && RationalQ[p]
6173. Int[Cosh[(a\_) + (b\_)\*((c\_) + (d\_)\*(x\_))]^(n\_)^(p\_)\*((e\_) + (f\_)\*(x\_))^(m\_), x\_Symbol] :> Simp[1/d^(m + 1) Subst[Int[(d\*e - c\*f + f\*x)^m\*Cosh[a + b\*x^n]^p, x], x, c + d\*x], x] /; FreeQ[{a, b, c, d, e, f, n}, x] && IGtQ[m, 0] && RationalQ[p]
6174. Int[Sech[v\_]^(m\_)\*((a\_) + (b\_)\*Tanh[v\_])^(n\_), x\_Symbol] :> Int[(a\*Cosh[v] + b\*Sinh[v])^n, x] /; FreeQ[{a, b}, x] && IntegerQ[(m - 1)/2] && EqQ[m + n, 0]
6175. Int[Csch[v\_]^(m\_)\*(Coth[v\_]\*(b\_) + (a\_))^(n\_), x\_Symbol] :> Int[(b\*Cosh[v] + a\*Sinh[v])^n, x] /; FreeQ[{a, b}, x] && IntegerQ[(m - 1)/2] && EqQ[m + n, 0]
6176. Int[(u\_)\*Sinh[(a\_) + (b\_)\*(x\_)]^(m\_)\*Sinh[(c\_) + (d\_)\*(x\_)]^(n\_), x\_Symbol] :> Int[ExpandTrigReduce[u, Sinh[a + b\*x]^m\*Sinh[c + d\*x]^n, x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[m, 0] && IGtQ[n, 0]

6177.  $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_.)]^{(m_.)} \text{Cosh}[(c_.) + (d_.)(x_.)]^{(n_.)} (u_.), x\_Symbol] \rightarrow \text{Int}[\text{ExpandTrigReduce}[u, \text{Cosh}[a + b*x]^m \text{Cosh}[c + d*x]^n, x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{IGtQ}[n, 0]$
6178.  $\text{Int}[\text{Sech}[(a_.) + (b_.)(x_.)] \text{Sech}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Simp}[-\text{Csch}[(b*c - a*d)/d] \ \text{Int}[\text{Tanh}[a + b*x], x], x] + \text{Simp}[\text{Csch}[(b*c - a*d)/b] \ \text{Int}[\text{Tanh}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b^2 - d^2, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
6179.  $\text{Int}[\text{Csch}[(a_.) + (b_.)(x_.)] \text{Csch}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Simp}[\text{Csch}[(b*c - a*d)/b] \ \text{Int}[\text{Coth}[a + b*x], x], x] - \text{Simp}[\text{Csch}[(b*c - a*d)/d] \ \text{Int}[\text{Coth}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b^2 - d^2, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
6180.  $\text{Int}[\text{Tanh}[(a_.) + (b_.)(x_.)] \text{Tanh}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Simp}[b*(x/d), x] - \text{Simp}[(b/d) \text{Cosh}[(b*c - a*d)/d] \ \text{Int}[\text{Sech}[a + b*x] \ \text{Sech}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b^2 - d^2, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
6181.  $\text{Int}[\text{Coth}[(a_.) + (b_.)(x_.)] \text{Coth}[(c_.) + (d_.)(x_.)], x\_Symbol] \rightarrow \text{Simp}[b*(x/d), x] + \text{Simp}[\text{Cosh}[(b*c - a*d)/d] \ \text{Int}[\text{Csch}[a + b*x] \ \text{Csch}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[b^2 - d^2, 0] \ \&\& \ \text{NeQ}[b*c - a*d, 0]$
6182.  $\text{Int}[(u_.) \text{Cosh}[v_](a_.) + (b_.) \text{Sinh}[v_]]^{(n_.)}, x\_Symbol] \rightarrow \text{Int}[u*(a*E^{(a/b)*v})^n, x] /; \text{FreeQ}[\{a, b, n\}, x] \ \&\& \ \text{EqQ}[a^2 - b^2, 0]$
6183.  $\text{Int}[\text{Sinh}[(a_.) + \text{Log}[(c_.)(x_.)^{(n_.)}] * (b_.)]^2 * (d_.)], x\_Symbol] \rightarrow \text{Simp}[-2^{(-1)} \ \text{Int}[E^{(-d)*(a + b*\text{Log}[c*x^n])^2}, x], x] + \text{Simp}[1/2 \ \text{Int}[E^{(d)*(a + b*\text{Log}[c*x^n])^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
6184.  $\text{Int}[\text{Cosh}[(a_.) + \text{Log}[(c_.)(x_.)^{(n_.)}] * (b_.)]^2 * (d_.)], x\_Symbol] \rightarrow \text{Simp}[1/2 \ \text{Int}[E^{(-d)*(a + b*\text{Log}[c*x^n])^2}, x], x] + \text{Simp}[1/2 \ \text{Int}[E^{(d)*(a + b*\text{Log}[c*x^n])^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$



6185.  $\text{Int}[(e \cdot x)^m \cdot \text{Sinh}[(a + \text{Log}[c \cdot x^n]) \cdot (b \cdot x)^2 \cdot d], x\_Symbol] \rightarrow \text{Simp}[-2^{-1} \text{Int}[(e \cdot x)^m / E^{d(a + b \cdot \text{Log}[c \cdot x^n])^2}, x], x] + \text{Simp}[1/2 \text{Int}[(e \cdot x)^m \cdot E^{d(a + b \cdot \text{Log}[c \cdot x^n])^2}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, n\}, x]$
6186.  $\text{Int}[\text{Cosh}[(a + \text{Log}[c \cdot x^n]) \cdot (b \cdot x)^2 \cdot d] \cdot (e \cdot x)^m, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[(e \cdot x)^m / E^{d(a + b \cdot \text{Log}[c \cdot x^n])^2}, x], x] + \text{Simp}[1/2 \text{Int}[(e \cdot x)^m \cdot E^{d(a + b \cdot \text{Log}[c \cdot x^n])^2}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, n\}, x]$
6187.  $\text{Int}[(a + \text{ArcSinh}[c \cdot x] \cdot (b \cdot x)^n, x\_Symbol] \rightarrow \text{Simp}[x \cdot (a + b \cdot \text{ArcSinh}[c \cdot x])^n, x] - \text{Simp}[b \cdot c \cdot n \text{Int}[x \cdot (a + b \cdot \text{ArcSinh}[c \cdot x])^{n-1} / \text{Sqrt}[1 + c^2 \cdot x^2], x], x] /;$   $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{GtQ}[n, 0]$
6188.  $\text{Int}[(a + \text{ArcSinh}[c \cdot x] \cdot (b \cdot x)^n, x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 + c^2 \cdot x^2] \cdot (a + b \cdot \text{ArcSinh}[c \cdot x])^{n+1} / (b \cdot c \cdot (n+1)), x] - \text{Simp}[c / (b \cdot (n+1)) \text{Int}[x \cdot (a + b \cdot \text{ArcSinh}[c \cdot x])^{n+1} / \text{Sqrt}[1 + c^2 \cdot x^2], x], x] /;$   $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{LtQ}[n, -1]$
6189.  $\text{Int}[(a + \text{ArcSinh}[c \cdot x] \cdot (b \cdot x)^n, x\_Symbol] \rightarrow \text{Simp}[1 / (b \cdot c) \text{Subst}[\text{Int}[x^n \cdot \text{Cosh}[-a/b + x/b], x], x, a + b \cdot \text{ArcSinh}[c \cdot x]], x] /;$   $\text{FreeQ}\{a, b, c, n\}, x]$
6190.  $\text{Int}[(a + \text{ArcSinh}[c \cdot x] \cdot (b \cdot x)^n / (x), x\_Symbol] \rightarrow \text{Simp}[1/b \text{Subst}[\text{Int}[x^n \cdot \text{Coth}[-a/b + x/b], x], x, a + b \cdot \text{ArcSinh}[c \cdot x]], x] /;$   $\text{FreeQ}\{a, b, c\}, x \ \&\& \ \text{IGtQ}[n, 0]$
6191.  $\text{Int}[(a + \text{ArcSinh}[c \cdot x] \cdot (b \cdot x)^n \cdot (d \cdot x)^m, x\_Symbol] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcSinh}[c \cdot x])^n / (d \cdot (m+1)), x] - \text{Simp}[b \cdot c \cdot (n / (d \cdot (m+1))) \text{Int}[(d \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcSinh}[c \cdot x])^{n-1} / \text{Sqrt}[1 + c^2 \cdot x^2], x], x] /;$   $\text{FreeQ}\{a, b, c, d, m\}, x \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{NeQ}[m, -1]$
6192.  $\text{Int}[(a + \text{ArcSinh}[c \cdot x] \cdot (b \cdot x)^n \cdot (x)^m, x\_Symbol] \rightarrow \text{Simp}[x^{m+1} \cdot (a + b \cdot \text{ArcSinh}[c \cdot x])^n / (m+1), x] - \text{Simp}[b \cdot c \cdot (n / (m+1)) \text{Int}[x^{m+1} \cdot (a + b \cdot \text{ArcSinh}[c \cdot x])^{n-1} / \text{Sqrt}[1 + c^2 \cdot x^2], x], x] /;$

- $x], x] /; \text{FreeQ}\{a, b, c\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{GtQ}[n, 0]$
6193.  $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)](b_.)]^{(n_)}(x_)^{(m_.)}, x\_Symbol] \rightarrow$   
 $\text{Simp}[x^m \sqrt{1 + c^2 x^2} ((a + b \text{ArcSinh}[c x])^{(n+1)}) / (b c (n+1))$   
 $), x] - \text{Simp}[1 / (b^2 c^{(m+1)} (n+1)) \text{Subst}[\text{Int}[\text{ExpandTrigReduce}[x^{(n+1)},$   
 $\text{Sinh}[-a/b + x/b]^{(m-1)} (m + (m+1) \text{Sinh}[-a/b + x/b]^2), x]$   
 $, x], x, a + b \text{ArcSinh}[c x]], x] /; \text{FreeQ}\{a, b, c\}, x] \ \&\& \ \text{IGtQ}[m, 0]$   
 $\ \&\& \ \text{GeQ}[n, -2] \ \&\& \ \text{LtQ}[n, -1]$
6194.  $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)](b_.)]^{(n_)}(x_)^{(m_.)}, x\_Symbol] \rightarrow$   
 $\text{Simp}[x^m \sqrt{1 + c^2 x^2} ((a + b \text{ArcSinh}[c x])^{(n+1)}) / (b c (n+1))$   
 $), x] + (-\text{Simp}[c ((m+1) / (b (n+1))) \text{Int}[x^{(m+1)} ((a + b \text{ArcSinh}$   
 $[c x])^{(n+1)} / \sqrt{1 + c^2 x^2}], x], x] - \text{Simp}[m / (b c (n+1)) \text{Int}$   
 $[x^{(m-1)} ((a + b \text{ArcSinh}[c x])^{(n+1)} / \sqrt{1 + c^2 x^2}], x], x]) /$   
 $; \text{FreeQ}\{a, b, c\}, x] \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{LtQ}[n, -2]$
6195.  $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)](b_.)]^{(n_)}(x_)^{(m_.)}, x\_Symbol] \rightarrow$   
 $\text{Simp}[1 / (b c^{(m+1)}) \text{Subst}[\text{Int}[x^n \text{Sinh}[-a/b + x/b]^m \text{Cosh}[-a/b + x/$   
 $b], x], x, a + b \text{ArcSinh}[c x]], x] /; \text{FreeQ}\{a, b, c, n\}, x] \ \&\& \ \text{IGtQ}[m,$   
 $0]$
6196.  $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)](b_.)]^{(n_.)}((d_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow$   
 $\text{Unintegrable}[(d x)^m (a + b \text{ArcSinh}[c x])^n, x] /; \text{FreeQ}\{a,$   
 $b, c, d, m, n\}, x]$
6197.  $\text{Int}[1 / (((a_.) + \text{ArcSinh}[(c_.)(x_)](b_.)) \sqrt{(d_.) + (e_.)(x_)^2}),$   
 $x\_Symbol] \rightarrow \text{Simp}[(1 / (b c)) \text{Simp}[\sqrt{1 + c^2 x^2} / \sqrt{d + e x^2}] * \text{L}$   
 $\text{og}[a + b \text{ArcSinh}[c x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2 *$   
 $d]$
6198.  $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)](b_.)]^{(n_.)} / \sqrt{(d_.) + (e_.)(x_)^2}$   
 $], x\_Symbol] \rightarrow \text{Simp}[(1 / (b c (n+1))) \text{Simp}[\sqrt{1 + c^2 x^2} / \sqrt{d +$   
 $e x^2}] (a + b \text{ArcSinh}[c x])^{(n+1)}, x] /; \text{FreeQ}\{a, b, c, d, e, n\},$   
 $x] \ \&\& \ \text{EqQ}[e, c^2 d] \ \&\& \ \text{NeQ}[n, -1]$

6199. `Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := With[{u = IntHide[(d + e*x^2)^p, x]}, Simp[(a + b*ArcSinh[c*x]) u, x] - Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 + c^2*x^2], x], x], x]] /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && IGtQ[p, 0]`
6200. `Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)*Sqrt[(d_) + (e_.)*(x_)^2], x_Symbol] := Simp[x*Sqrt[d + e*x^2]*((a + b*ArcSinh[c*x])^n/2), x] + (Simp[(1/2)*Simp[Sqrt[d + e*x^2]/Sqrt[1 + c^2*x^2]] Int[(a + b*ArcSinh[c*x])^n/Sqrt[1 + c^2*x^2], x], x] - Simp[b*c*(n/2)*Simp[Sqrt[d + e*x^2]/Sqrt[1 + c^2*x^2]] Int[x*(a + b*ArcSinh[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && GtQ[n, 0]`
6201. `Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[x*(d + e*x^2)^p*((a + b*ArcSinh[c*x])^n/(2*p + 1)), x] + (Simp[2*d*(p/(2*p + 1)) Int[(d + e*x^2)^(p - 1)*(a + b*ArcSinh[c*x])^n, x], x] - Simp[b*c*(n/(2*p + 1))*Simp[(d + e*x^2)^p/(1 + c^2*x^2)^p] Int[x*(1 + c^2*x^2)^(p - 1/2)*(a + b*ArcSinh[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && GtQ[n, 0] && GtQ[p, 0]`
6202. `Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)/((d_) + (e_.)*(x_)^2)^(3/2), x_Symbol] := Simp[x*((a + b*ArcSinh[c*x])^n/(d*Sqrt[d + e*x^2])), x] - Simp[b*c*(n/d)*Simp[Sqrt[1 + c^2*x^2]/Sqrt[d + e*x^2]] Int[x*((a + b*ArcSinh[c*x])^(n - 1)/(1 + c^2*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && GtQ[n, 0]`
6203. `Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_), x_Symbol] := Simp[(-x)*(d + e*x^2)^(p + 1)*((a + b*ArcSinh[c*x])^n/(2*d*(p + 1))), x] + (Simp[(2*p + 3)/(2*d*(p + 1)) Int[(d + e*x^2)^(p + 1)*(a + b*ArcSinh[c*x])^n, x], x] + Simp[b*c*(n/(2*(p + 1)))*Simp[(d + e*x^2)^p/(1 + c^2*x^2)^p] Int[x*(1 + c^2*x^2)^(p + 1/2)*(a + b*ArcSinh[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && GtQ[n, 0] && LtQ[p, -1] && NeQ[p, -3/2]`
6204. `Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)/((d_) + (e_.)*(x_)^2), x_Symbol] := Simp[1/(c*d) Subst[Int[(a + b*x)^n*Sech[x], x], x, ArcSi`

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nh[c*x]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[e, c^2*d] && IGtQ[n,
0]

6205. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_
.), x_Symbol] := Simp[Simp[Sqrt[1 + c^2*x^2]*(d + e*x^2)^p]*((a + b*Ar
cSinh[c*x])^(n + 1)/(b*c*(n + 1))), x] - Simp[c*((2*p + 1)/(b*(n + 1))
)*Simp[(d + e*x^2)^p/(1 + c^2*x^2)^p] Int[x*(1 + c^2*x^2)^(p - 1/2)*
(a + b*ArcSinh[c*x])^(n + 1), x], x] /; FreeQ[{a, b, c, d, e, p}, x] &
& EqQ[e, c^2*d] && LtQ[n, -1]

6206. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p
_.), x_Symbol] := Simp[(1/(b*c))*Simp[(d + e*x^2)^p/(1 + c^2*x^2)^p]
Subst[Int[x^n*Cosh[-a/b + x/b]^(2*p + 1), x], x, a + b*ArcSinh[c*x]],
x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[e, c^2*d] && IGtQ[2*p, 0]

6207. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))*((d_) + (e_.)*(x_)^2)^(p_.), x
_Symbol] := With[{u = IntHide[(d + e*x^2)^p, x]}, Simp[(a + b*ArcSinh[
c*x]) u, x] - Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 + c^2*x^2],
x], x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ[e, c^2*d] && (IGtQ[p,
0] || ILtQ[p + 1/2, 0])

6208. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p
_.), x_Symbol] := Int[ExpandIntegrand[(a + b*ArcSinh[c*x])^n, (d + e*x
^2)^p, x], x] /; FreeQ[{a, b, c, d, e, n}, x] && NeQ[e, c^2*d] && Inte
gerQ[p] && (p > 0 || IGtQ[n, 0])

6209. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p
_.), x_Symbol] := Unintegrable[(d + e*x^2)^p*(a + b*ArcSinh[c*x])^n, x
] /; FreeQ[{a, b, c, d, e, n, p}, x]

6210. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_))^(p_)
*((f_) + (g_.)*(x_))^(q_), x_Symbol] := Simp[((-d^2)*(g/e))^q Int[(d
+ e*x)^(p - q)*(1 + c^2*x^2)^q*(a + b*ArcSinh[c*x])^n, x], x] /; Free
Q[{a, b, c, d, e, f, g, n}, x] && EqQ[e*f + d*g, 0] && EqQ[c^2*d^2 + e
^2, 0] && HalfIntegerQ[p, q] && GeQ[p - q, 0] && GtQ[d, 0] && LtQ[g/e,
0]

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6211. $\text{Int}[\left((a_{_}) + \text{ArcSinh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*((d_{_}) + (e_{_})*(x_{_}))^{(p_{_})} * ((f_{_}) + (g_{_})*(x_{_}))^{(q_{_})}, x_Symbol] \rightarrow \text{Simp}[(d + e*x)^q * (f + g*x)^q / (1 + c^2*x^2)^q \text{Int}[(d + e*x)^{(p - q)} * (1 + c^2*x^2)^q * (a + b*\text{ArcSinh}[c*x])^n, x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, f, g, n\}, x] \ \&\& \ \text{EqQ}[e*f + d * g, 0] \ \&\& \ \text{EqQ}[c^2*d^2 + e^2, 0] \ \&\& \ \text{HalfIntegerQ}[p, q] \ \&\& \ \text{GeQ}[p - q, 0]$
6212. $\text{Int}[\left((a_{_}) + \text{ArcSinh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*(x_{_})/\left((d_{_}) + (e_{_})*(x_{_})^2\right), x_Symbol] \rightarrow \text{Simp}[1/e \text{Subst}[\text{Int}[(a + b*x)^n * \text{Tanh}[x], x], x, \text{ArcSinh}[c*x]], x] /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{IGtQ}[n, 0]$
6213. $\text{Int}[\left((a_{_}) + \text{ArcSinh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*(x_{_})*\left((d_{_}) + (e_{_})*(x_{_})^2\right)^{(p_{_})}, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(p + 1)} * (a + b*\text{ArcSinh}[c*x])^n / (2*e*(p + 1)), x] - \text{Simp}[b*(n/(2*c*(p + 1))) * \text{Simp}[(d + e*x^2)^p / (1 + c^2*x^2)^p] \text{Int}[(1 + c^2*x^2)^{(p + 1/2)} * (a + b*\text{ArcSinh}[c*x])^{(n - 1)}, x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, p\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{NeQ}[p, -1]$
6214. $\text{Int}[\left((a_{_}) + \text{ArcSinh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}/\left((x_{_})*\left((d_{_}) + (e_{_})*(x_{_})^2\right)\right), x_Symbol] \rightarrow \text{Simp}[1/d \text{Subst}[\text{Int}[(a + b*x)^n / (\text{Cosh}[x] * \text{Sinh}[x]), x], x, \text{ArcSinh}[c*x]], x] /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{IGtQ}[n, 0]$
6215. $\text{Int}[\left((a_{_}) + \text{ArcSinh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*((f_{_})*(x_{_}))^{(m_{_})}*\left((d_{_}) + (e_{_})*(x_{_})^2\right)^{(p_{_})}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m + 1)} * (d + e*x^2)^{(p + 1)} * (a + b*\text{ArcSinh}[c*x])^n / (d*f*(m + 1)), x] - \text{Simp}[b*c*(n/(f*(m + 1))) * \text{Simp}[(d + e*x^2)^p / (1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m + 1)} * (1 + c^2*x^2)^{(p + 1/2)} * (a + b*\text{ArcSinh}[c*x])^{(n - 1)}, x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, f, m, p\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{EqQ}[m + 2*p + 3, 0] \ \&\& \ \text{NeQ}[m, -1]$
6216. $\text{Int}[\left(\left((a_{_}) + \text{ArcSinh}[(c_{_})*(x_{_})]*(b_{_})\right)*\left((d_{_}) + (e_{_})*(x_{_})^2\right)^{(p_{_})}\right)/\left(x_{_}\right), x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^p * (a + b*\text{ArcSinh}[c*x]) / (2*p), x] + (\text{Simp}[d \text{Int}[(d + e*x^2)^{(p - 1)} * (a + b*\text{ArcSinh}[c*x]) / x, x], x] - \text{Simp}[b*c*(d^p / (2*p)) \text{Int}[(1 + c^2*x^2)^{(p - 1/2)}, x], x]) /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{IGtQ}[p, 0]$

6217. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]*((f_.)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^p*(a + b*\text{ArcSinh}[c*x])/(f*(m+1)), x] + (-\text{Simp}[b*c*(d^p/(f*(m+1))) \text{Int}[(f*x)^{(m+1)}*(1 + c^2*x^2)^{(p-1/2)}, x], x] - \text{Simp}[2*e*(p/(f^2*(m+1))) \text{Int}[(f*x)^{(m+2)}*(d + e*x^2)^{(p-1)}*(a + b*\text{ArcSinh}[c*x]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[(m+1)/2, 0]$
6218. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]*((f_.)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[(f*x)^m*(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSinh}[c*x]) u, x] - \text{Simp}[b*c \text{Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[1 + c^2*x^2], x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p, 0]$
6219. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]*(x_)^{(m_)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[x^m*(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSinh}[c*x]) u, x] - \text{Simp}[b*c*\text{Simp}[\text{Sqrt}[d + e*x^2]/\text{Sqrt}[1 + c^2*x^2] \text{Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[d + e*x^2], x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{IntegerQ}[p - 1/2] \&\& \text{NeQ}[p, -2^{(-1)}] \&\& (\text{IGtQ}[(m+1)/2, 0] || \text{ILtQ}[(m+2*p+3)/2, 0])$
6220. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.)*(x_))^{(m_)}*\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*\text{Sqrt}[d + e*x^2]*(a + b*\text{ArcSinh}[c*x])^n/(f*(m+1)), x] + (-\text{Simp}[b*c*(n/(f*(m+1)))*\text{Simp}[\text{Sqrt}[d + e*x^2]/\text{Sqrt}[1 + c^2*x^2] \text{Int}[(f*x)^{(m+1)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x] - \text{Simp}[(c^2/(f^2*(m+1)))*\text{Simp}[\text{Sqrt}[d + e*x^2]/\text{Sqrt}[1 + c^2*x^2] \text{Int}[(f*x)^{(m+2)}*((a + b*\text{ArcSinh}[c*x])^n/\text{Sqrt}[1 + c^2*x^2]), x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[m, -1]$
6221. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.)*(x_))^{(m_)}*\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*\text{Sqrt}[d + e*x^2]*(a + b*\text{ArcSinh}[c*x])^n/(f*(m+2)), x] + (\text{Simp}[(1/(m+2))*\text{Simp}[\text{Sqrt}[d + e*x^2]/\text{Sqrt}[1 + c^2*x^2] \text{Int}[(f*x)^m*((a + b*\text{ArcSinh}[c*x])^n/\text{Sqrt}[1 + c^2*x^2]), x], x] - \text{Simp}[b*c*(n/(f*(m+2)))*\text{Simp}[\text{Sqrt}[d + e*x^2]/\text{Sqrt}[1 + c^2*x^2] \text{Int}[(f*x)^{(m+1)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[$

- $n, 0]$ && (IGtQ[m, -2] || EqQ[n, 1])
6222. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)]*(b_.)]^{(n_.)}*((f_.)(x_))^{(m_.)}*((d_.) + (e_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^p*(a + b*\text{ArcSinh}[c*x])^n/(f*(m+1)), x] + (-\text{Simp}[2*e*(p/(f^2*(m+1))) \text{Int}[(f*x)^{(m+2)}*(d + e*x^2)^{(p-1)}*(a + b*\text{ArcSinh}[c*x])^n, x], x] - \text{Simp}[b*c*(n/(f*(m+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m+1)}*(1 + c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -1]$
6223. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)]*(b_.)]^{(n_.)}*((f_.)(x_))^{(m_.)}*((d_.) + (e_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^p*(a + b*\text{ArcSinh}[c*x])^n/(f*(m+2*p+1)), x] + (\text{Simp}[2*d*(p/(m+2*p+1)) \text{Int}[(f*x)^m*(d + e*x^2)^{(p-1)}*(a + b*\text{ArcSinh}[c*x])^n, x], x] - \text{Simp}[b*c*(n/(f*(m+2*p+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m+1)}*(1 + c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& !\text{LtQ}[m, -1]$
6224. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)]*(b_.)]^{(n_.)}*((f_.)(x_))^{(m_.)}*((d_.) + (e_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^{(p+1)}*(a + b*\text{ArcSinh}[c*x])^n/(d*f*(m+1)), x] + (-\text{Simp}[c^2*((m+2*p+3)/(f^2*(m+1))) \text{Int}[(f*x)^{(m+2)}*(d + e*x^2)^p*(a + b*\text{ArcSinh}[c*x])^n, x], x] - \text{Simp}[b*c*(n/(f*(m+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m+1)}*(1 + c^2*x^2)^{(p+1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[n, 0] \&\& \text{ILtQ}[m, -1]$
6225. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)(x_)]*(b_.)]^{(n_.)}*((f_.)(x_))^{(m_.)}*((d_.) + (e_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[f*(f*x)^{(m-1)}*(d + e*x^2)^{(p+1)}*(a + b*\text{ArcSinh}[c*x])^n/(2*e*(p+1)), x] + (-\text{Simp}[f^2*((m-1)/(2*e*(p+1))) \text{Int}[(f*x)^{(m-2)}*(d + e*x^2)^{(p+1)}*(a + b*\text{ArcSinh}[c*x])^n, x], x] - \text{Simp}[b*f*(n/(2*c*(p+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)}*(1 + c^2*x^2)^{(p+1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{IGtQ}[m, 1]$

6226. $\text{Int}[(a_.) + \text{ArcSinh}[c_.*(x_.)]*(b_.)]^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-f*x)^{(m+1)}*(d + e*x^2)^{(p+1)}*((a + b*\text{ArcSinh}[c*x])^{n/(2*d*f*(p+1))}), x] + (\text{Simp}[(m+2*p+3)/(2*d*(p+1)) \text{Int}[(f*x)^m*(d + e*x^2)^{(p+1)}*(a + b*\text{ArcSinh}[c*x])^n, x], x] + \text{Simp}[b*c*(n/(2*f*(p+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m+1)}*(1 + c^2*x^2)^{(p+1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x)] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& !\text{GtQ}[m, 1] \&\& (\text{IntegerQ}[m] || \text{IntegerQ}[p] || \text{EqQ}[n, 1])$
6227. $\text{Int}[(a_.) + \text{ArcSinh}[c_.*(x_.)]*(b_.)]^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[f*(f*x)^{(m-1)}*(d + e*x^2)^{(p+1)}*((a + b*\text{ArcSinh}[c*x])^{n/(e*(m+2*p+1))}), x] + (-\text{Simp}[f^2*((m-1)/(c^2*(m+2*p+1))) \text{Int}[(f*x)^{(m-2)}*(d + e*x^2)^p*(a + b*\text{ArcSinh}[c*x])^n, x], x] - \text{Simp}[b*f*(n/(c*(m+2*p+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)}*(1 + c^2*x^2)^{(p+1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x)] /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[n, 0] \&\& \text{IGtQ}[m, 1] \&\& \text{NeQ}[m+2*p+1, 0]$
6228. $\text{Int}[(a_.) + \text{ArcSinh}[c_.*(x_.)]*(b_.)]^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^m*\text{Sqrt}[1 + c^2*x^2]*(d + e*x^2)^p*((a + b*\text{ArcSinh}[c*x])^{(n+1)/(b*c*(n+1))}), x] - \text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)}*(1 + c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{LtQ}[n, -1] \&\& \text{EqQ}[m+2*p+1, 0]$
6229. $\text{Int}[(a_.) + \text{ArcSinh}[c_.*(x_.)]*(b_.)]^{(n_.)}*((f_.)*(x_.))^{(m_.)}*((d_.) + (e_.)*(x_.)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^m*\text{Sqrt}[1 + c^2*x^2]*(d + e*x^2)^p*((a + b*\text{ArcSinh}[c*x])^{(n+1)/(b*c*(n+1))}), x] + (-\text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m-1)}*(1 + c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n+1)}, x], x] - \text{Simp}[c*((m+2*p+1)/(b*f*(n+1)))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Int}[(f*x)^{(m+1)}*(1 + c^2*x^2)^{(p-1/2)}*(a + b*\text{ArcSinh}[c*x])^{(n+1)}, x], x)] /; \text{FreeQ}\{a, b, c, d, e, f\}, x\} \&\& \text{EqQ}[e, c^2*d] \&\& \text{LtQ}[n, -1] \&\& \text{IGtQ}[2*p, 0] \&\& \text{NeQ}[m+2*p+1, 0] \&\& \text{IGtQ}[m, -3]$

6230. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[c_{\cdot}](x_{\cdot}))^{n_{\cdot}}(f_{\cdot})(x_{\cdot})^{m_{\cdot}}}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[f*(f*x)^{(m-1)}*\sqrt{d + e*x^2}^{2n}*(a + b*\text{ArcSinh}[c*x])^n/(e*m), x] + (-\text{Simp}[f^{2*(m-1)}/(c^{2*m})] \text{Int}[(f*x)^{(m-2)}*(a + b*\text{ArcSinh}[c*x])^n/\sqrt{d + e*x^2}, x], x] - \text{Simp}[b*f*(n/(c*m))*\text{Simp}[\sqrt{1 + c^2*x^2}/\sqrt{d + e*x^2}] \text{Int}[(f*x)^{(m-1)}*(a + b*\text{ArcSinh}[c*x])^{(n-1)}, x], x)] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{GtQ}[n, 0] \&\& \text{IGtQ}[m, 1]$
6231. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[c_{\cdot}](x_{\cdot}))^{n_{\cdot}}(x_{\cdot})^{m_{\cdot}}}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(1/c^{(m+1)})*\text{Simp}[\sqrt{1 + c^2*x^2}/\sqrt{d + e*x^2}] \text{Subst}[\text{Int}[(a + b*x)^n*\text{Sinh}[x]^m, x], x, \text{ArcSinh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m]$
6232. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[c_{\cdot}](x_{\cdot}))^{n_{\cdot}}(f_{\cdot})(x_{\cdot})^{m_{\cdot}}}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(f*x)^{(m+1)}/(f*(m+1))]*\text{Simp}[\sqrt{1 + c^2*x^2}/\sqrt{d + e*x^2}]*\text{Hypergeometric2F1}[1/2, (1+m)/2, (3+m)/2, (-c^2)*x^2], x] - \text{Simp}[b*c*(f*x)^{(m+2)}/(f^{2*(m+1)}*(m+2))*\text{Simp}[\sqrt{1 + c^2*x^2}/\sqrt{d + e*x^2}]*\text{HypergeometricPFQ}\{1, 1+m/2, 1+m/2\}, \{3/2+m/2, 2+m/2\}, (-c^2)*x^2], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& !\text{IntegerQ}[m]$
6233. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[c_{\cdot}](x_{\cdot}))^{n_{\cdot}}(f_{\cdot})(x_{\cdot})^{m_{\cdot}}}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(f*x)^m/(b*c*(n+1))]*\text{Simp}[\sqrt{1 + c^2*x^2}/\sqrt{d + e*x^2}]*\text{Simp}[(a + b*\text{ArcSinh}[c*x])^{(n+1)}, x] - \text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[\sqrt{1 + c^2*x^2}/\sqrt{d + e*x^2}] \text{Int}[(f*x)^{(m-1)}*(a + b*\text{ArcSinh}[c*x])^{(n+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{LtQ}[n, -1]$
6234. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[c_{\cdot}](x_{\cdot}))^{n_{\cdot}}(x_{\cdot})^{m_{\cdot}}((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2)^{p_{\cdot}}}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(1/(b*c^{(m+1)}))*\text{Simp}[(d + e*x^2)^p/(1 + c^2*x^2)^p] \text{Subst}[\text{Int}[x^n*\text{Sinh}[-a/b + x/b]^m*\text{Cosh}[-a/b + x/b]^{(2*p+1)}, x], x, a + b*\text{ArcSinh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[2*p + 2, 0] \&\& \text{IGtQ}[m, 0]$

6235. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.)*(x_))^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcSinh}[c*x])^n/\text{Sqrt}[d + e*x^2], (f*x)^m*(d + e*x^2)^{(p + 1/2)}, x], x] /;$ FreeQ[{a, b, c, d, e, f, m, n}, x] && EqQ[e, c^2*d] && IGtQ[p + 1/2, 0] && !IGtQ[(m + 1)/2, 0] && (EqQ[m, -1] || EqQ[m, -2])
6236. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]*(x_)*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(p + 1)}*((a + b*\text{ArcSinh}[c*x])/(2*e*(p + 1))), x] - \text{Simp}[b*(c/(2*e*(p + 1))) \text{Int}[(d + e*x^2)^{(p + 1)}/\text{Sqrt}[1 + c^2*x^2], x], x] /;$ FreeQ[{a, b, c, d, e, p}, x] && NeQ[e, c^2*d] && NeQ[p, -1]
6237. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]*((f_.)*(x_))^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(f*x)^m*(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSinh}[c*x]) u, x] - \text{Simp}[b*c \text{Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[1 + c^2*x^2], x], x], x] /;$ FreeQ[{a, b, c, d, e, f, m}, x] && NeQ[e, c^2*d] && IntegerQ[p] && (GtQ[p, 0] || (IGtQ[(m - 1)/2, 0] && LeQ[m + p, 0]))
6238. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.)*(x_))^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcSinh}[c*x])^n, (f*x)^m*(d + e*x^2)^p, x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && NeQ[e, c^2*d] && IGtQ[n, 0] && IntegerQ[p] && IntegerQ[m]
6239. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.)*(x_))^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(f*x)^m*(d + e*x^2)^p*(a + b*\text{ArcSinh}[c*x])^n, x] /;$ FreeQ[{a, b, c, d, e, f, m, n, p}, x]
6240. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((h_.)*(x_))^{(m_.)}*((d_.) + (e_.)*(x_))^{(p_.)}*((f_.) + (g_.)*(x_))^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[((-d^2)*(g/e))^q \text{Int}[(h*x)^m*(d + e*x)^{(p - q)}*(1 + c^2*x^2)^q*(a + b*\text{ArcSinh}[c*x])^n, x], x] /;$ FreeQ[{a, b, c, d, e, f, g, h, m, n}, x] && EqQ[e*f + d*g, 0] && EqQ[c^2*d^2 + e^2, 0] && HalfIntegerQ[p, q] && GeQ[p - q, 0] && GtQ[d, 0] && LtQ[g/e, 0]
6241. $\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((h_.)*(x_))^{(m_.)}*((d_.) + (e_.)*(x_))^{(p_.)}*((f_.) + (g_.)*(x_))^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[((-d^2$

- $$) * (g/e)^{\text{IntPart}[q]} * (d + e*x)^{\text{FracPart}[q]} * ((f + g*x)^{\text{FracPart}[q]} / (1 + c^2*x^2)^{\text{FracPart}[q]}) \quad \text{Int}[(h*x)^m * (d + e*x)^{p-q} * (1 + c^2*x^2)^{-q} * (a + b*\text{ArcSinh}[c*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[e*f + d*g, 0] \&\& \text{EqQ}[c^2*d^2 + e^2, 0] \&\& \text{HalfIntegerQ}[p, q] \&\& \text{GeQ}[p - q, 0]$$
6242. $\text{Int}[(a + \text{ArcSinh}[c*x]) * (b + e*x)^n / (d + e*x), x_Symbol] \rightarrow \text{Subst}[\text{Int}[(a + b*x)^n * (\text{Cosh}[x] / (c*d + e*\text{Sinh}[x]))], x], x, \text{ArcSinh}[c*x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[n, 0]$
6243. $\text{Int}[(a + \text{ArcSinh}[c*x]) * (b + e*x)^n * (d + e*x)^m, x_Symbol] \rightarrow \text{Simp}[(d + e*x)^{m+1} * ((a + b*\text{ArcSinh}[c*x])^n / (e*(m+1))), x] - \text{Simp}[b*c*(n/(e*(m+1))) \quad \text{Int}[(d + e*x)^{m+1} * ((a + b*\text{ArcSinh}[c*x])^{n-1} / \text{Sqrt}[1 + c^2*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{NeQ}[m, -1]$
6244. $\text{Int}[(a + \text{ArcSinh}[c*x]) * (b + e*x)^n * (d + e*x)^m, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)^m * (a + b*\text{ArcSinh}[c*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{LtQ}[n, -1]$
6245. $\text{Int}[(a + \text{ArcSinh}[c*x]) * (b + e*x)^n * (d + e*x)^m, x_Symbol] \rightarrow \text{Simp}[1/c^{m+1} \quad \text{Subst}[\text{Int}[(a + b*x)^n * \text{Cosh}[x] * (c*d + e*\text{Sinh}[x])^m, x], x, \text{ArcSinh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[m, 0]$
6246. $\text{Int}[(a + \text{ArcSinh}[c*x]) * (b + e*x)^n * (P*x), x_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[\text{ExpandExpression}[P*x, x], x]\}, \text{Simp}[(a + b*\text{ArcSinh}[c*x]) \quad u, x] - \text{Simp}[b*c \quad \text{Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[1 + c^2*x^2], x], x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{PolynomialQ}[P*x, x]$
6247. $\text{Int}[(a + \text{ArcSinh}[c*x]) * (b + e*x)^n * (P*x), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[P*x * (a + b*\text{ArcSinh}[c*x])^n, x], x] /; \text{FreeQ}\{a, b, c, n\}, x] \&\& \text{PolynomialQ}[P*x, x]$
6248. $\text{Int}[(a + \text{ArcSinh}[c*x]) * (b + e*x)^n * (P*x)^m * (d + e*x)^m, x_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[P*x * (d + e*x)^m, x]\}, \text{Simp}[(a + b*\text{ArcSinh}[c*x]) * u, x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x] \&\& \text{PolynomialQ}[P*x, x]$

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cSinh[c*x] u, x] - Simp[b*c Int[SimplifyIntegrand[u/Sqrt[1 + c^2*
x^2], x], x], x] /; FreeQ[{a, b, c, d, e, m}, x] && PolynomialQ[Px, x
]

6249. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^ (n_.)*((d_.) + (e_.)*(x_))^(m_.)*
((f_.) + (g_.)*(x_))^(p_.), x_Symbol] := With[{u = IntHide[(f + g*x)^p
*(d + e*x)^m, x]}, Simp[(a + b*ArcSinh[c*x])^n u, x] - Simp[b*c*n
Int[SimplifyIntegrand[u*((a + b*ArcSinh[c*x])^(n - 1)/Sqrt[1 + c^2*x^2
]), x], x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[n, 0] && IG
tQ[p, 0] && ILtQ[m, 0] && LtQ[m + p + 1, 0]

6250. Int[(((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.) + (g_.)*(x_) + (h
.)*(x)^2)^(p_.))/((d_.) + (e_.)*(x_))^(2), x_Symbol] := With[{u = IntHi
de[(f + g*x + h*x^2)^p/(d + e*x)^2, x]}, Simp[(a + b*ArcSinh[c*x])^n
u, x] - Simp[b*c*n Int[SimplifyIntegrand[u*((a + b*ArcSinh[c*x])^(n
- 1)/Sqrt[1 + c^2*x^2]), x], x], x] /; FreeQ[{a, b, c, d, e, f, g, h
}, x] && IGtQ[n, 0] && IGtQ[p, 0] && EqQ[e*g - 2*d*h, 0]

6251. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^ (n_.)*(Px_)*((d_.) + (e_.)*(x_
))^ (m_.), x_Symbol] := Int[ExpandIntegrand[Px*(d + e*x)^m*(a + b*ArcSin
h[c*x])^n, x], x] /; FreeQ[{a, b, c, d, e}, x] && PolynomialQ[Px, x] &
& IGtQ[n, 0] && IntegerQ[m]

6252. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))*((f_.) + (g_.)*(x_))^(m_.)*((d_
) + (e.)*(x_)^2)^(p_.), x_Symbol] := With[{u = IntHide[(f + g*x)^m*(d
+ e*x^2)^p, x]}, Simp[(a + b*ArcSinh[c*x]) u, x] - Simp[b*c Int[1/
Sqrt[1 + c^2*x^2] u, x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && E
qQ[e, c^2*d] && IGtQ[m, 0] && ILtQ[p + 1/2, 0] && GtQ[d, 0] && (LtQ[m,
-2*p - 1] || GtQ[m, 3])

6253. Int[((a_.) + ArcSinh[(c_.)*(x_)]*(b_.))^ (n_.)*((f_.) + (g_.)*(x_))^(m_.
)*((d_.) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Int[ExpandIntegrand[(d + e*
x^2)^p*(a + b*ArcSinh[c*x])^n, (f + g*x)^m, x], x] /; FreeQ[{a, b, c,
d, e, f, g}, x] && EqQ[e, c^2*d] && IGtQ[m, 0] && IntegerQ[p + 1/2] &&
GtQ[d, 0] && IGtQ[n, 0] && ((EqQ[n, 1] && GtQ[p, -1]) || GtQ[p, 0] ||
EqQ[m, 1] || (EqQ[m, 2] && LtQ[p, -2]))

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6254.  $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[(c_{\cdot})(x_{\cdot})](b_{\cdot}))^{(n_{\cdot})}((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(m_{\cdot})} \sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}{x_{\text{Symbol}}}] \rightarrow \text{Simp}[(f + gx)^m(d + ex^2) \frac{((a + b \text{ArcSinh}[cx])^{(n+1)})}{(b c \sqrt{d} (n+1))}, x] - \text{Simp}[1/(b c \sqrt{d} (n+1)) \text{Int}[(d g m + 2 e f x + e g (m+2) x^2) (f + gx)^{(m-1)} (a + b \text{ArcSinh}[cx])^{(n+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{ILtQ}[m, 0] \&\& \text{GtQ}[d, 0] \&\& \text{IGtQ}[n, 0]$
6255.  $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[(c_{\cdot})(x_{\cdot})](b_{\cdot}))^{(n_{\cdot})}((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(m_{\cdot})} ((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}}{x_{\text{Symbol}}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[\sqrt{d + ex^2} (a + b \text{ArcSinh}[cx])^n (f + gx)^m (d + ex^2)^{(p-1/2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{IntegerQ}[m] \&\& \text{IGtQ}[p + 1/2, 0] \&\& \text{GtQ}[d, 0] \&\& \text{IGtQ}[n, 0]$
6256.  $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[(c_{\cdot})(x_{\cdot})](b_{\cdot}))^{(n_{\cdot})}((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(m_{\cdot})} ((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}}{x_{\text{Symbol}}}] \rightarrow \text{Simp}[(f + gx)^m (d + ex^2)^{(p+1/2)} \frac{((a + b \text{ArcSinh}[cx])^{(n+1)})}{(b c \sqrt{d} (n+1))}, x] - \text{Simp}[1/(b c \sqrt{d} (n+1)) \text{Int}[\text{ExpandIntegrand}[(f + gx)^{(m-1)} (a + b \text{ArcSinh}[cx])^{(n+1)}, (d g m + e f (2 p + 1) x + e g (m + 2 p + 1) x^2) (d + ex^2)^{(p-1/2)}, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{ILtQ}[m, 0] \&\& \text{IGtQ}[p - 1/2, 0] \&\& \text{GtQ}[d, 0] \&\& \text{IGtQ}[n, 0]$
6257.  $\text{Int}[\frac{(((a_{\cdot}) + \text{ArcSinh}[(c_{\cdot})(x_{\cdot})](b_{\cdot}))^{(n_{\cdot})}((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(m_{\cdot})})}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(f + gx)^m \frac{((a + b \text{ArcSinh}[cx])^{(n+1)})}{(b c \sqrt{d} (n+1))}, x] - \text{Simp}[g m / (b c \sqrt{d} (n+1)) \text{Int}[(f + gx)^{(m-1)} (a + b \text{ArcSinh}[cx])^{(n+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{IGtQ}[m, 0] \&\& \text{GtQ}[d, 0] \&\& \text{LtQ}[n, -1]$
6258.  $\text{Int}[\frac{(((a_{\cdot}) + \text{ArcSinh}[(c_{\cdot})(x_{\cdot})](b_{\cdot}))^{(n_{\cdot})}((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(m_{\cdot})})}{\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[1/(c^{(m+1)} \sqrt{d}) \text{Subst}[\text{Int}[(a + bx)^n (c f + g \text{Sinh}[x])^m, x], x, \text{ArcSinh}[cx]], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{IntegerQ}[m] \&\& \text{GtQ}[d, 0] \&\& (\text{GtQ}[m, 0] \parallel \text{IGtQ}[n, 0])$
6259.  $\text{Int}[\frac{((a_{\cdot}) + \text{ArcSinh}[(c_{\cdot})(x_{\cdot})](b_{\cdot}))^{(n_{\cdot})}((f_{\cdot}) + (g_{\cdot})(x_{\cdot}))^{(m_{\cdot})} ((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}}{x_{\text{Symbol}}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b x)^m (d + ex^2)^{(p-1/2)} (f + gx)^m (d + ex^2)^{(p-1/2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x] \&\& \text{EqQ}[e, c^2 d] \&\& \text{IntegerQ}[m] \&\& \text{GtQ}[d, 0] \&\& (\text{GtQ}[m, 0] \parallel \text{IGtQ}[n, 0])$

- $$\text{ArcSinh}[c*x]^n/\text{Sqrt}[d + e*x^2], (f + g*x)^m*(d + e*x^2)^{(p + 1/2)}, x]$$

$$, x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{IntegerQ}[m]$$

$$] \ \&\& \ \text{ILtQ}[p + 1/2, 0] \ \&\& \ \text{GtQ}[d, 0] \ \&\& \ \text{IGtQ}[n, 0]$$
6260. 
$$\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.) + (g_.)*(x_))^{(m_.)}$$

$$)*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[\text{Simp}[(d + e*x^2)^p/(1$$

$$+ c^2*x^2)^p] \ \text{Int}[(f + g*x)^m*(1 + c^2*x^2)^p*(a + b*\text{ArcSinh}[c*x])^n$$

$$, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, n\}, x \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{Int}$$

$$\text{egerQ}[m] \ \&\& \ \text{IntegerQ}[p - 1/2] \ \&\& \ !\text{GtQ}[d, 0]$$
6261. 
$$\text{Int}[(\text{Log}[(h_.)*((f_.) + (g_.)*(x_))^{(m_.)}]*((a_.) + \text{ArcSinh}[(c_.)*(x_)]$$

$$)*(b_.))^{(n_.)})/\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x\_Symbol] \rightarrow \text{Simp}[\text{Log}[h*(f$$

$$+ g*x)^m]*((a + b*\text{ArcSinh}[c*x])^{(n + 1)/(b*c*\text{Sqrt}[d]*(n + 1))}, x] - \text{S}$$

$$\text{imp}[g*(m/(b*c*\text{Sqrt}[d]*(n + 1)))] \ \text{Int}[(a + b*\text{ArcSinh}[c*x])^{(n + 1)/(f$$

$$+ g*x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m\}, x \ \&\& \ \text{EqQ}[e, c^2*$$

$$d] \ \&\& \ \text{GtQ}[d, 0] \ \&\& \ \text{IGtQ}[n, 0]$$
6262. 
$$\text{Int}[\text{Log}[(h_.)*((f_.) + (g_.)*(x_))^{(m_.)}]*((a_.) + \text{ArcSinh}[(c_.)*(x_)]$$

$$)*(b_.))^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[\text{Simp}[(d +$$

$$e*x^2)^p/(1 + c^2*x^2)^p] \ \text{Int}[\text{Log}[h*(f + g*x)^m]*(1 + c^2*x^2)^p*(a$$

$$+ b*\text{ArcSinh}[c*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m, n\}, x$$

$$] \ \&\& \ \text{EqQ}[e, c^2*d] \ \&\& \ \text{IntegerQ}[p - 1/2] \ \&\& \ !\text{GtQ}[d, 0]$$
6263. 
$$\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]*((d_.) + (e_.)*(x_))^{(m_.)}*((f_.)$$

$$+ (g_.)*(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[(d + e*x)^m*(f + g$$

$$*x)^m, x]\}, \text{Simp}[(a + b*\text{ArcSinh}[c*x]) \ u, x] - \text{Simp}[b*c \ \text{Int}[1/\text{Sqrt}[$$

$$1 + c^2*x^2] \ u, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x \ \&\& \ \text{ILtQ}[m$$

$$+ 1/2, 0]$$
6264. 
$$\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_))^{(m_.)}$$

$$)*((f_.) + (g_.)*(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{Arc}$$

$$\text{Sinh}[c*x])^n, (d + e*x)^m*(f + g*x)^m, x], x] /; \text{FreeQ}\{a, b, c, d,$$

$$e, f, g, n\}, x \ \&\& \ \text{IntegerQ}[m]$$
6265. 
$$\text{Int}[(a_.) + \text{ArcSinh}[(c_.)*(x_)]*(b_.)]*(u_), x\_Symbol] \rightarrow \text{With}\{v = \text{I}$$

$$\text{ntHide}[u, x]\}, \text{Simp}[(a + b*\text{ArcSinh}[c*x]) \ v, x] - \text{Simp}[b*c \ \text{Int}[\text{Simp}$$

$$\text{lifyIntegrand}[v/\text{Sqrt}[1 + c^2*x^2], x], x], x] /; \text{InverseFunctionFreeQ}[\$$

- $v, x]] /; \text{FreeQ}[\{a, b, c\}, x]$
6266.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.)*(x\_)]*(b\_.)\}^{(n\_)}*(Px\_)*\{(d\_.) + (e\_.)*(x\_)^2\}^{(p\_)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[Px*(d + e*x^2)^p*(a + b*\text{ArcSinh}[c*x])^n, x]\}, \text{Int}[u, x] /; \text{SumQ}[u]] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{PolynomialQ}[Px, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IntegerQ}[p - 1/2]$
6267.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.)*(x\_)]*(b\_.)\}^{(n\_)}*(Px\_)*\{(f\_.) + (g\_.)*\{(d\_.) + (e\_.)*(x\_)^2\}^{(p\_)}\}^{(m\_)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[Px*(f + g*(d + e*x^2)^p]^m*(a + b*\text{ArcSinh}[c*x])^n, x]\}, \text{Int}[u, x] /; \text{SumQ}[u]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{PolynomialQ}[Px, x] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IGtQ}[p + 1/2, 0] \&\& \text{IntegersQ}[m, n]$
6268.  $\text{Int}[\text{ArcSinh}[(c\_.)*(x\_)]^{(n\_)}*(Rfx\_), x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[\text{ArcSinh}[c*x]^n, Rfx, x]\}, \text{Int}[u, x] /; \text{SumQ}[u]] /; \text{FreeQ}[c, x] \&\& \text{RationalFunctionQ}[Rfx, x] \&\& \text{IGtQ}[n, 0]$
6269.  $\text{Int}[(\text{ArcSinh}[(c\_.)*(x\_)]*(b\_.) + (a\_))^{(n\_)}*(Rfx\_), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Rfx*(a + b*\text{ArcSinh}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{RationalFunctionQ}[Rfx, x] \&\& \text{IGtQ}[n, 0]$
6270.  $\text{Int}[\text{ArcSinh}[(c\_.)*(x\_)]^{(n\_)}*(Rfx\_)*\{(d\_.) + (e\_.)*(x\_)^2\}^{(p\_)}, x\_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[(d + e*x^2)^p*\text{ArcSinh}[c*x]^n, Rfx, x]\}, \text{Int}[u, x] /; \text{SumQ}[u]] /; \text{FreeQ}[\{c, d, e\}, x] \&\& \text{RationalFunctionQ}[Rfx, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IntegerQ}[p - 1/2]$
6271.  $\text{Int}[(\text{ArcSinh}[(c\_.)*(x\_)]*(b\_.) + (a\_))^{(n\_)}*(Rfx\_)*\{(d\_.) + (e\_.)*(x\_)^2\}^{(p\_)}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x^2)^p, Rfx*(a + b*\text{ArcSinh}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{RationalFunctionQ}[Rfx, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[e, c^2*d] \&\& \text{IntegerQ}[p - 1/2]$
6272.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.)*(x\_)]*(b\_.)\}^{(n\_)}*(u\_), x\_Symbol] \rightarrow \text{Unintegrable}[u*(a + b*\text{ArcSinh}[c*x])^n, x] /; \text{FreeQ}[\{a, b, c, n\}, x]$
6273.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.) + (d\_.)*(x\_)]*(b\_.)\}^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b*\text{ArcSinh}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}[\{$

a, b, c, d, n}, x]

6274.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.) + (d\_.)*(x\_)]*(b\_.)\}^{(n\_)}*((e\_.) + (f\_.)*(x\_))^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[\{(d*e - c*f)/d + f*(x/d)\}^m*(a + b*\text{ArcSinh}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x]$

6275.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.) + (d\_.)*(x\_)]*(b\_.)\}^{(n\_)}*((A\_.) + (B\_.)*(x\_.) + (C\_.)*(x\_.)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(C/d^2 + (C/d^2)*x^2)^p*(a + b*\text{ArcSinh}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, A, B, C, n, p\}, x] \&\& \text{EqQ}[B*(1 + c^2) - 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$

6276.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.) + (d\_.)*(x\_)]*(b\_.)\}^{(n\_)}*((e\_.) + (f\_.)*(x\_))^{(m\_)}*((A\_.) + (B\_.)*(x\_.) + (C\_.)*(x\_.)^2)^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[\{(d*e - c*f)/d + f*(x/d)\}^m*(C/d^2 + (C/d^2)*x^2)^p*(a + b*\text{ArcSinh}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, n, p\}, x] \&\& \text{EqQ}[B*(1 + c^2) - 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$

6277.  $\text{Int}[\text{Sqrt}[(a\_.) + \text{ArcSinh}[(c\_.) + (d\_.)*(x\_)]^2]*(b\_.)], x\_Symbol] \rightarrow \text{Simp}[x*\text{Sqrt}[a + b*\text{ArcSinh}[c + d*x^2]], x] + (-\text{Simp}[\text{Sqrt}[\text{Pi}]*x*(\text{Cosh}[a/(2*b)] - c*\text{Sinh}[a/(2*b)])*(\text{FresnelC}[\text{Sqrt}[-c/(Pi*b)]*\text{Sqrt}[a + b*\text{ArcSinh}[c + d*x^2]]]/(\text{Sqrt}[-(c/b)]*(\text{Cosh}[\text{ArcSinh}[c + d*x^2]/2] + c*\text{Sinh}[\text{ArcSinh}[c + d*x^2]/2]))), x] + \text{Simp}[\text{Sqrt}[\text{Pi}]*x*(\text{Cosh}[a/(2*b)] + c*\text{Sinh}[a/(2*b)])*(\text{FresnelS}[\text{Sqrt}[-c/(Pi*b)]*\text{Sqrt}[a + b*\text{ArcSinh}[c + d*x^2]]]/(\text{Sqrt}[-(c/b)]*(\text{Cosh}[\text{ArcSinh}[c + d*x^2]/2] + c*\text{Sinh}[\text{ArcSinh}[c + d*x^2]/2]))), x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, -1]$

6278.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.) + (d\_.)*(x\_)]^2*(b\_.)\}^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[x*(a + b*\text{ArcSinh}[c + d*x^2])^n, x] + (-\text{Simp}[2*b*n*\text{Sqrt}[2*c*d*x^2 + d^2*x^4]*((a + b*\text{ArcSinh}[c + d*x^2])^{(n-1)})/(d*x), x] + \text{Simp}[4*b^2*n*(n-1) \text{ Int}[(a + b*\text{ArcSinh}[c + d*x^2])^{(n-2)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, -1] \&\& \text{GtQ}[n, 1]$

6279.  $\text{Int}[\{(a\_.) + \text{ArcSinh}[(c\_.) + (d\_.)*(x\_)]^2*(b\_.)\}^{(-1)}, x\_Symbol] \rightarrow \text{Simp}[x*(c*\text{Cosh}[a/(2*b)] - \text{Sinh}[a/(2*b)])*(\text{CoshIntegral}[(a + b*\text{ArcSinh}[c$



- $$\frac{+ d*x^2]}{(2*b)]/(2*b*(Cosh[ArcSinh[c + d*x^2]/2] + c*Sinh[(1/2)*ArcSinh[c + d*x^2]]))}, x] + \text{Simp}[x*(Cosh[a/(2*b)] - c*Sinh[a/(2*b)])*(SinhIntegral[(a + b*ArcSinh[c + d*x^2])/(2*b)]/(2*b*(Cosh[ArcSinh[c + d*x^2]/2] + c*Sinh[(1/2)*ArcSinh[c + d*x^2]]))}, x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, -1]$$
6280.  $\text{Int}[1/\text{Sqrt}[(a_.) + \text{ArcSinh}[(c_.) + (d_.)*(x_.)^2]*(b_.)], x\_Symbol] \rightarrow \text{Simp}[(c + 1)*\text{Sqrt}[\text{Pi}/2]*x*(\text{Cosh}[a/(2*b)] - \text{Sinh}[a/(2*b)])*(\text{Erfi}[\text{Sqrt}[a + b*\text{ArcSinh}[c + d*x^2]]/\text{Sqrt}[2*b]]/(2*\text{Sqrt}[b]*(\text{Cosh}[\text{ArcSinh}[c + d*x^2]/2] + c*\text{Sinh}[\text{ArcSinh}[c + d*x^2]/2]))), x] + \text{Simp}[(c - 1)*\text{Sqrt}[\text{Pi}/2]*x*(\text{Cosh}[a/(2*b)] + \text{Sinh}[a/(2*b)])*(\text{Erf}[\text{Sqrt}[a + b*\text{ArcSinh}[c + d*x^2]]/\text{Sqrt}[2*b]]/(2*\text{Sqrt}[b]*(\text{Cosh}[\text{ArcSinh}[c + d*x^2]/2] + c*\text{Sinh}[\text{ArcSinh}[c + d*x^2]/2]))), x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, -1]$
6281.  $\text{Int}[(a_.) + \text{ArcSinh}[(c_.) + (d_.)*(x_.)^2]*(b_.))^{(-3/2)}, x\_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[2*c*d*x^2 + d^2*x^4]/(b*d*x*\text{Sqrt}[a + b*\text{ArcSinh}[c + d*x^2]])], x] + (-\text{Simp}[(-c/b)^{(3/2)}*\text{Sqrt}[\text{Pi}]*x*(\text{Cosh}[a/(2*b)] - c*\text{Sinh}[a/(2*b)])*(\text{FresnelC}[\text{Sqrt}[-c/(\text{Pi}*b)]*\text{Sqrt}[a + b*\text{ArcSinh}[c + d*x^2]]]/(\text{Cosh}[\text{ArcSinh}[c + d*x^2]/2] + c*\text{Sinh}[\text{ArcSinh}[c + d*x^2]/2])), x] + \text{Simp}[(-c/b)^{(3/2)}*\text{Sqrt}[\text{Pi}]*x*(\text{Cosh}[a/(2*b)] + c*\text{Sinh}[a/(2*b)])*(\text{FresnelS}[\text{Sqrt}[-c/(\text{Pi}*b)]*\text{Sqrt}[a + b*\text{ArcSinh}[c + d*x^2]]]/(\text{Cosh}[\text{ArcSinh}[c + d*x^2]/2] + c*\text{Sinh}[\text{ArcSinh}[c + d*x^2]/2])), x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, -1]$
6282.  $\text{Int}[(a_.) + \text{ArcSinh}[(c_.) + (d_.)*(x_.)^2]*(b_.))^{(-2)}, x\_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[2*c*d*x^2 + d^2*x^4]/(2*b*d*x*(a + b*\text{ArcSinh}[c + d*x^2]))], x] + (\text{Simp}[x*(\text{Cosh}[a/(2*b)] - c*\text{Sinh}[a/(2*b)])*(\text{CoshIntegral}[(a + b*\text{ArcSinh}[c + d*x^2])/(2*b)]/(4*b^2*(\text{Cosh}[\text{ArcSinh}[c + d*x^2]/2] + c*\text{Sinh}[\text{ArcSinh}[c + d*x^2]/2]))), x] + \text{Simp}[x*(c*\text{Cosh}[a/(2*b)] - \text{Sinh}[a/(2*b)])*(\text{SinhIntegral}[(a + b*\text{ArcSinh}[c + d*x^2])/(2*b)]/(4*b^2*(\text{Cosh}[\text{ArcSinh}[c + d*x^2]/2] + c*\text{Sinh}[\text{ArcSinh}[c + d*x^2]/2]))), x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[c^2, -1]$
6283.  $\text{Int}[(a_.) + \text{ArcSinh}[(c_.) + (d_.)*(x_.)^2]*(b_.))^{(n_.)}, x\_Symbol] \rightarrow \text{Simp}[(-x)*((a + b*\text{ArcSinh}[c + d*x^2])^{(n + 2)}/(4*b^2*(n + 1)*(n + 2))), x] + (\text{Simp}[\text{Sqrt}[2*c*d*x^2 + d^2*x^4]*((a + b*\text{ArcSinh}[c + d*x^2])^{(n + 1)}/(2*b*d*(n + 1)*x)), x] + \text{Simp}[1/(4*b^2*(n + 1)*(n + 2)) \text{Int}[(a +$

- $b \cdot \text{ArcSinh}[c + d \cdot x^2]^{(n+2)}, x, x) /;$  FreeQ[{a, b, c, d}, x] && EqQ[c^2, -1] && LtQ[n, -1] && NeQ[n, -2]
6284. Int[ArcSinh[(a\_.)\*(x\_)^(p\_)]^(n\_.)/(x\_), x\_Symbol] := Simp[1/p Subst[Int[x^n\*Coth[x], x], x, ArcSinh[a\*x^p]], x] /; FreeQ[{a, p}, x] && IGtQ[n, 0]
6285. Int[ArcSinh[(c\_.)/((a\_.) + (b\_.)\*(x\_)^(n\_.))]^(m\_.)\*(u\_.), x\_Symbol] :> Int[u\*ArcSch[a/c + b\*(x^n/c)]^m, x] /; FreeQ[{a, b, c, n, m}, x]
6286. Int[ArcSinh[Sqrt[-1 + (b\_.)\*(x\_)^2]]^(n\_.)/Sqrt[-1 + (b\_.)\*(x\_)^2], x\_Symbol] := Simp[Sqrt[b\*x^2]/(b\*x) Subst[Int[ArcSinh[x]^n/Sqrt[1 + x^2], x], x, Sqrt[-1 + b\*x^2]], x] /; FreeQ[{b, n}, x]
6287. Int[(f\_)^(ArcSinh[(a\_.) + (b\_.)\*(x\_)^(n\_.)]\*(c\_.)), x\_Symbol] := Simp[1/b Subst[Int[f^(c\*x^n)\*Cosh[x], x], x, ArcSinh[a + b\*x]], x] /; FreeQ[{a, b, c, f}, x] && IGtQ[n, 0]
6288. Int[(f\_)^(ArcSinh[(a\_.) + (b\_.)\*(x\_)^(n\_.)]\*(c\_.))\*(x\_)^(m\_.), x\_Symbol] := Simp[1/b Subst[Int[(-a/b + Sinh[x]/b)^m\*f^(c\*x^n)\*Cosh[x], x], x, ArcSinh[a + b\*x]], x] /; FreeQ[{a, b, c, f}, x] && IGtQ[m, 0] && IGtQ[n, 0]
6289. Int[ArcSinh[u\_], x\_Symbol] := Simp[x\*ArcSinh[u], x] - Int[SimplifyIntegrand[x\*(D[u, x]/Sqrt[1 + u^2]), x], x] /; InverseFunctionFreeQ[u, x] && !FunctionOfExponentialQ[u, x]
6290. Int[((a\_.) + ArcSinh[u\_]\*(b\_.))\*((c\_.) + (d\_.)\*(x\_)^(m\_.)), x\_Symbol] := Simp[(c + d\*x)^(m+1)\*((a + b\*ArcSinh[u])/(d\*(m+1))), x] - Simp[b/(d\*(m+1)) Int[SimplifyIntegrand[(c + d\*x)^(m+1)\*(D[u, x]/Sqrt[1 + u^2]), x], x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ[m, -1] && InverseFunctionFreeQ[u, x] && !FunctionOfQ[(c + d\*x)^(m+1), u, x] && !FunctionOfExponentialQ[u, x]
6291. Int[((a\_.) + ArcSinh[u\_]\*(b\_.))\*(v\_), x\_Symbol] := With[{w = IntHide[v, x]}, Simp[(a + b\*ArcSinh[u]) w, x] - Simp[b Int[SimplifyIntegrand

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d[w*(D[u, x]/Sqrt[1 + u^2]), x], x], x] /; InverseFunctionFreeQ[w, x]]
  /; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_
  .) + (d_)*x)^(m_)] /; FreeQ[{c, d, m}, x]]

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6292. $\text{Int}[E^{\text{ArcSinh}[u_]*(n_.)}, x_Symbol] \rightarrow \text{Int}[(u + \text{Sqrt}[1 + u^2])^n, x]$
 /; IntegerQ[n] && PolyQ[u, x]
6293. $\text{Int}[E^{\text{ArcSinh}[u_]*(n_.)}*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Int}[x^m*(u + \text{Sqrt}[1 + u^2])^n, x]$
 /; RationalQ[m] && IntegerQ[n] && PolyQ[u, x]
6294. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[x*(a + b*\text{ArcCosh}[c*x])^n, x] - \text{Simp}[b*c*n \text{ Int}[x*((a + b*\text{ArcCosh}[c*x])^{(n - 1)})/(\text{Sqrt}[1 + c*x]*\text{Sqrt}[-1 + c*x]), x], x] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{GtQ}[n, 0]$
6295. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 + c*x]*\text{Sqrt}[-1 + c*x]*((a + b*\text{ArcCosh}[c*x])^{(n + 1)})/(b*c*(n + 1)), x] - \text{Simp}[c/(b*(n + 1)) \text{ Int}[x*((a + b*\text{ArcCosh}[c*x])^{(n + 1)})/(\text{Sqrt}[1 + c*x]*\text{Sqrt}[-1 + c*x]), x], x] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{LtQ}[n, -1]$
6296. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[1/(b*c) \text{ Subst}[\text{Int}[x^n*\text{Sinh}[-a/b + x/b], x], x, a + b*\text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c, n\}, x]$
6297. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)^{(n_.)}/(x_), x_Symbol] \rightarrow \text{Simp}[1/b \text{ Subst}[\text{Int}[x^n*\text{Tanh}[-a/b + x/b], x], x, a + b*\text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c\}, x\} \&\& \text{IGtQ}[n, 0]$
6298. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)^{(n_.)}*((d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(d*x)^{(m + 1)}*((a + b*\text{ArcCosh}[c*x])^n/(d*(m + 1))), x] - \text{Simp}[b*c*(n/(d*(m + 1))) \text{ Int}[(d*x)^{(m + 1)}*((a + b*\text{ArcCosh}[c*x])^{(n - 1)})/(\text{Sqrt}[1 + c*x]*\text{Sqrt}[-1 + c*x]), x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x\} \&\& \text{IGtQ}[n, 0] \&\& \text{NeQ}[m, -1]$
6299. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)^{(n_.)}*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*((a + b*\text{ArcCosh}[c*x])^n/(m + 1)), x] - \text{Simp}[b*c*(n/(m + 1)) \text{ Int}[x^m*((a + b*\text{ArcCosh}[c*x])^{(n - 1)})/(\text{Sqrt}[1 + c*x]*\text{Sqrt}[-1 + c*x]), x], x] /; \text{FreeQ}\{a, b, c, n\}, x\} \&\& \text{GtQ}[m, 0]$

- 1)) Int[x^(m + 1)*((a + b*ArcCosh[c*x])^(n - 1)/(Sqrt[1 + c*x]*Sqrt[-1 + c*x])), x], x] /; FreeQ[{a, b, c}, x] && IGtQ[m, 0] && GtQ[n, 0]
6300. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_)*(x_)^(m_.), x_Symbol] :=
 Simp[x^m*Sqrt[1 + c*x]*Sqrt[-1 + c*x]*((a + b*ArcCosh[c*x])^(n + 1)/(b*c*(n + 1))), x] + Simp[1/(b^2*c^(m + 1)*(n + 1)) Subst[Int[ExpandTrigReduce[x^(n + 1), Cosh[-a/b + x/b]^(m - 1)*(m - (m + 1)*Cosh[-a/b + x/b]^2), x], x], x, a + b*ArcCosh[c*x]], x] /; FreeQ[{a, b, c}, x] && IGtQ[m, 0] && GeQ[n, -2] && LtQ[n, -1]
6301. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_)*(x_)^(m_.), x_Symbol] :=
 Simp[x^m*Sqrt[1 + c*x]*Sqrt[-1 + c*x]*((a + b*ArcCosh[c*x])^(n + 1)/(b*c*(n + 1))), x] + (-Simp[c*(m + 1)/(b*(n + 1)) Int[x^(m + 1)*((a + b*ArcCosh[c*x])^(n + 1)/(Sqrt[1 + c*x]*Sqrt[-1 + c*x])), x], x] + Simp[m/(b*c*(n + 1)) Int[x^(m - 1)*((a + b*ArcCosh[c*x])^(n + 1)/(Sqrt[1 + c*x]*Sqrt[-1 + c*x])), x], x]) /; FreeQ[{a, b, c}, x] && IGtQ[m, 0] && LtQ[n, -2]
6302. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_)*(x_)^(m_.), x_Symbol] :=
 Simp[1/(b*c^(m + 1)) Subst[Int[x^n*Cosh[-a/b + x/b]^m*Sinh[-a/b + x/b], x], x, a + b*ArcCosh[c*x]], x] /; FreeQ[{a, b, c, n}, x] && IGtQ[m, 0]
6303. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d_.)*(x_))^(m_.), x_Symbol] := Unintegrable[(d*x)^m*(a + b*ArcCosh[c*x])^n, x] /; FreeQ[{a, b, c, d, m, n}, x]
6304. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d1_) + (e1_.)*(x_))^(p_.)*((d2_) + (e2_.)*(x_))^(p_.), x_Symbol] := Int[(d1*d2 + e1*e2*x^2)^p*(a + b*ArcCosh[c*x])^n, x] /; FreeQ[{a, b, c, d1, e1, d2, e2, n}, x] && EqQ[d2*e1 + d1*e2, 0] && IntegerQ[p]
6305. Int[1/(((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*Sqrt[(d_) + (e_.)*(x_)^2]), x_Symbol] := Simp[(1/(b*c))*Simp[Sqrt[1 + c*x]*(Sqrt[-1 + c*x])/Sqrt[d + e*x^2]]*Log[a + b*ArcCosh[c*x]], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0]

6306. $\text{Int}[1/(((a_{\cdot}) + \text{ArcCosh}[(c_{\cdot})(x_{\cdot})](b_{\cdot}))\sqrt{(d1_{\cdot}) + (e1_{\cdot})(x_{\cdot})})\sqrt{(d2_{\cdot}) + (e2_{\cdot})(x_{\cdot})}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(1/(b*c))\text{Simp}[\sqrt{1 + c*x}/\sqrt{d1 + e1*x}]\text{Simp}[\sqrt{-1 + c*x}/\sqrt{d2 + e2*x}]\text{Log}[a + b*\text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2\}, x\} \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2]$
6307. $\text{Int}[(a_{\cdot}) + \text{ArcCosh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})]^{(n_{\cdot})}/\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(1/(b*c*(n + 1)))\text{Simp}[\sqrt{1 + c*x}*(\sqrt{-1 + c*x}/\sqrt{d + e*x^2})](a + b*\text{ArcCosh}[c*x])^{(n + 1)}, x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{NeQ}[n, -1]$
6308. $\text{Int}[(a_{\cdot}) + \text{ArcCosh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})]^{(n_{\cdot})}/(\sqrt{(d1_{\cdot}) + (e1_{\cdot})(x_{\cdot})})\sqrt{(d2_{\cdot}) + (e2_{\cdot})(x_{\cdot})}], x_{\text{Symbol}}] \rightarrow \text{Simp}[(1/(b*c*(n + 1)))\text{Simp}[\sqrt{1 + c*x}/\sqrt{d1 + e1*x}]\text{Simp}[\sqrt{-1 + c*x}/\sqrt{d2 + e2*x}](a + b*\text{ArcCosh}[c*x])^{(n + 1)}, x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, n\}, x\} \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2] \&\& \text{NeQ}[n, -1]$
6309. $\text{Int}[(a_{\cdot}) + \text{ArcCosh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})]*((d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2)^{(p_{\cdot})}], x_{\text{Symbol}}] \rightarrow \text{With}\{u = \text{IntHide}[(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcCosh}[c*x])^u, x] - \text{Simp}[b*c \text{Int}[\text{SimplifyIntegrand}[u/(\sqrt{1 + c*x}*\sqrt{-1 + c*x})], x], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[p, 0]$
6310. $\text{Int}[(a_{\cdot}) + \text{ArcCosh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})]^{(n_{\cdot})}\sqrt{(d_{\cdot}) + (e_{\cdot})(x_{\cdot})^2}], x_{\text{Symbol}}] \rightarrow \text{Simp}[x*\sqrt{d + e*x^2}*((a + b*\text{ArcCosh}[c*x])^{n/2}), x] + (-\text{Simp}[(1/2)*\text{Simp}[\sqrt{d + e*x^2}/(\sqrt{1 + c*x}*\sqrt{-1 + c*x})]\text{Int}[(a + b*\text{ArcCosh}[c*x])^n/(\sqrt{1 + c*x}*\sqrt{-1 + c*x}), x], x] - \text{Simp}[b*c*(n/2)*\text{Simp}[\sqrt{d + e*x^2}/(\sqrt{1 + c*x}*\sqrt{-1 + c*x})]\text{Int}[x*(a + b*\text{ArcCosh}[c*x])^{(n - 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0]$
6311. $\text{Int}[(a_{\cdot}) + \text{ArcCosh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})]^{(n_{\cdot})}\sqrt{(d1_{\cdot}) + (e1_{\cdot})(x_{\cdot})}\sqrt{(d2_{\cdot}) + (e2_{\cdot})(x_{\cdot})}], x_{\text{Symbol}}] \rightarrow \text{Simp}[x*\sqrt{d1 + e1*x}*\sqrt{d2 + e2*x}*((a + b*\text{ArcCosh}[c*x])^{n/2}), x] + (-\text{Simp}[(1/2)*\text{Simp}[\sqrt{d1 + e1*x}/\sqrt{1 + c*x}]\text{Simp}[\sqrt{d2 + e2*x}/\sqrt{-1 + c*x}]\text{Int}[(a + b*\text{ArcCosh}[c*x])^n/(\sqrt{1 + c*x}*\sqrt{-1 + c*x}), x], x] - \text{Simp}[b*c*(n/2)*\text{Simp}[\sqrt{d1 + e1*x}/\sqrt{1 + c*x}]\text{Simp}[\sqrt{d2 + e2*x}/\sqrt{-1$

- + c*x]] Int[x*(a + b*ArcCosh[c*x])^(n - 1), x], x] /; FreeQ[{a, b, c, d1, e1, d2, e2}, x] && EqQ[e1, c*d1] && EqQ[e2, (-c)*d2] && GtQ[n, 0]
6312. Int[((a_.) + ArcCosh[(c_.)*(x_)])*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] :> Simp[x*(d + e*x^2)^p*((a + b*ArcCosh[c*x])^n/(2*p + 1)), x] + (Simp[2*d*(p/(2*p + 1)) Int[(d + e*x^2)^(p - 1)*(a + b*ArcCosh[c*x])^n, x], x] - Simp[b*c*(n/(2*p + 1))*Simp[(d + e*x^2)^p/((1 + c*x)^p*(-1 + c*x)^p)] Int[x*(1 + c*x)^(p - 1/2)*(-1 + c*x)^(p - 1/2)*(a + b*ArcCosh[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && GtQ[p, 0]
6313. Int[((a_.) + ArcCosh[(c_.)*(x_)])*(b_.))^(n_.)*((d1_) + (e1_.)*(x_))^(p_.)*((d2_) + (e2_.)*(x_))^(p_.), x_Symbol] :> Simp[x*(d1 + e1*x)^p*(d2 + e2*x)^p*((a + b*ArcCosh[c*x])^n/(2*p + 1)), x] + (Simp[2*d1*d2*(p/(2*p + 1)) Int[(d1 + e1*x)^(p - 1)*(d2 + e2*x)^(p - 1)*(a + b*ArcCosh[c*x])^n, x], x] - Simp[b*c*(n/(2*p + 1))*Simp[(d1 + e1*x)^p/(1 + c*x)^p]*Simp[(d2 + e2*x)^p/(-1 + c*x)^p] Int[x*(1 + c*x)^(p - 1/2)*(-1 + c*x)^(p - 1/2)*(a + b*ArcCosh[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d1, e1, d2, e2}, x] && EqQ[e1, c*d1] && EqQ[e2, (-c)*d2] && GtQ[n, 0] && GtQ[p, 0]
6314. Int[((a_.) + ArcCosh[(c_.)*(x_)])*(b_.))^(n_.)/((d_) + (e_.)*(x_)^2)^(3/2), x_Symbol] :> Simp[x*((a + b*ArcCosh[c*x])^n/(d*Sqrt[d + e*x^2])), x] + Simp[b*c*(n/d)*Simp[Sqrt[1 + c*x]*(Sqrt[-1 + c*x]/Sqrt[d + e*x^2])] Int[x*((a + b*ArcCosh[c*x])^(n - 1)/(1 - c^2*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0]
6315. Int[((a_.) + ArcCosh[(c_.)*(x_)])*(b_.))^(n_.)/(((d1_) + (e1_.)*(x_))^(3/2)*((d2_) + (e2_.)*(x_))^(3/2)), x_Symbol] :> Simp[x*((a + b*ArcCosh[c*x])^n/(d1*d2*Sqrt[d1 + e1*x]*Sqrt[d2 + e2*x])), x] + Simp[b*c*(n/(d1*d2))*Simp[Sqrt[1 + c*x]/Sqrt[d1 + e1*x]]*Simp[Sqrt[-1 + c*x]/Sqrt[d2 + e2*x]] Int[x*((a + b*ArcCosh[c*x])^(n - 1)/(1 - c^2*x^2)), x], x] /; FreeQ[{a, b, c, d1, e1, d2, e2}, x] && EqQ[e1, c*d1] && EqQ[e2, (-c)*d2] && GtQ[n, 0]

6316. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-x)*(d + e*x^2)^{(p + 1)}*((a + b*\text{ArcCosh}[c*x])^n / (2*d*(p + 1))), x] + (\text{Simp}[(2*p + 3)/(2*d*(p + 1)) \text{Int}[(d + e*x^2)^{(p + 1)}*(a + b*\text{ArcCosh}[c*x])^n, x], x] - \text{Simp}[b*c*(n/(2*(p + 1)))*\text{Simp}[(d + e*x^2)^p/((1 + c*x)^p*(-1 + c*x)^p)] \text{Int}[x*(1 + c*x)^{(p + 1/2)}*(-1 + c*x)^{(p + 1/2)}*(a + b*\text{ArcCosh}[c*x])^{(n - 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e\}, x \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -3/2]$
6317. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d1_.) + (e1_.)*(x_))^{(p_.)}*((d2_.) + (e2_.)*(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-x)*(d1 + e1*x)^{(p + 1)}*(d2 + e2*x)^{(p + 1)}*((a + b*\text{ArcCosh}[c*x])^n / (2*d1*d2*(p + 1))), x] + (\text{Simp}[(2*p + 3)/(2*d1*d2*(p + 1)) \text{Int}[(d1 + e1*x)^{(p + 1)}*(d2 + e2*x)^{(p + 1)}*(a + b*\text{ArcCosh}[c*x])^n, x], x] - \text{Simp}[b*c*(n/(2*(p + 1)))*\text{Simp}[(d1 + e1*x)^p/(1 + c*x)^p]*\text{Simp}[(d2 + e2*x)^p/(-1 + c*x)^p] \text{Int}[x*(1 + c*x)^{(p + 1/2)}*(-1 + c*x)^{(p + 1/2)}*(a + b*\text{ArcCosh}[c*x])^{(n - 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2\}, x \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2] \&\& \text{GtQ}[n, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -3/2]$
6318. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}/((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[-(c*d)^{-1} \text{Subst}[\text{Int}[(a + b*x)^n*\text{Csch}[x], x], x, \text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0]$
6319. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Simp}[\text{Sqrt}[1 + c*x]*\text{Sqrt}[-1 + c*x]*(d + e*x^2)^p] * ((a + b*\text{ArcCosh}[c*x])^{(n + 1)} / (b*c*(n + 1))), x] - \text{Simp}[c*((2*p + 1) / (b*(n + 1)))*\text{Simp}[(d + e*x^2)^p/((1 + c*x)^p*(-1 + c*x)^p)] \text{Int}[x*(1 + c*x)^{(p - 1/2)}*(-1 + c*x)^{(p - 1/2)}*(a + b*\text{ArcCosh}[c*x])^{(n + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n, -1] \&\& \text{IntegerQ}[2*p]$
6320. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d1_.) + (e1_.)*(x_))^{(p_.)}*((d2_.) + (e2_.)*(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 + c*x]*\text{Sqrt}[-1 + c*x]*(d1 + e1*x)^p*(d2 + e2*x)^p*((a + b*\text{ArcCosh}[c*x])^{(n + 1)} / (b*c*(n + 1))), x] - \text{Simp}[c*((2*p + 1) / (b*(n + 1)))*\text{Simp}[(d1 + e1*x)^p/(1 + c*x)^p]*\text{Simp}[(d2 + e2*x)^p/(-1 + c*x)^p] \text{Int}[x*(-1 + c^2*x^2)^p]$

- $- 1/2) * (a + b * \text{ArcCosh}[c * x])^{(n + 1)}, x, x] /;$ FreeQ[{a, b, c, d1, e1, d2, e2, p}, x] && EqQ[e1, c*d1] && EqQ[e2, (-c)*d2] && LtQ[n, -1] && IntegerQ[p + 1/2]
6321. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] :> Simp[(1/(b*c))*Simp[(d + e*x^2)^p/((1 + c*x)^p*(-1 + c*x)^p)] Subst[Int[x^n*Sinh[-a/b + x/b]^(2*p + 1), x], x, a + b*ArcCosh[c*x]], x] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[c^2*d + e, 0] && IGtQ[2*p, 0]
6322. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d1_) + (e1_.)*(x_))^(p_.)*((d2_) + (e2_.)*(x_))^(p_.), x_Symbol] :> Simp[(1/(b*c))*Simp[(d1 + e1*x)^p/(1 + c*x)^p]*Simp[(d2 + e2*x)^p/(-1 + c*x)^p] Subst[Int[x^n*Sinh[-a/b + x/b]^(2*p + 1), x], x, a + b*ArcCosh[c*x]], x] /; FreeQ[{a, b, c, d1, e1, d2, e2, n}, x] && EqQ[e1, c*d1] && EqQ[e2, (-c)*d2] && IGtQ[2*p, 0]
6323. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] :> With[{u = IntHide[(d + e*x^2)^p, x]}, Simp[(a + b*ArcCosh[c*x]) u, x] - Simp[b*c Int[SimplifyIntegrand[u/(Sqrt[1 + c*x]*Sqrt[-1 + c*x]), x], x], x]] /; FreeQ[{a, b, c, d, e}, x] && NeQ[c^2*d + e, 0] && (IGtQ[p, 0] || ILtQ[p + 1/2, 0])
6324. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] :> Int[ExpandIntegrand[(a + b*ArcCosh[c*x])^n, (d + e*x^2)^p, x], x] /; FreeQ[{a, b, c, d, e, n}, x] && NeQ[c^2*d + e, 0] && IntegerQ[p] && (p > 0 || IGtQ[n, 0])
6325. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] :> Unintegrable[(d + e*x^2)^p*(a + b*ArcCosh[c*x])^n, x] /; FreeQ[{a, b, c, d, e, n, p}, x]
6326. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d1_) + (e1_.)*(x_))^(p_.)*((d2_) + (e2_.)*(x_))^(p_.), x_Symbol] :> Unintegrable[(d1 + e1*x)^p*(d2 + e2*x)^p*(a + b*ArcCosh[c*x])^n, x] /; FreeQ[{a, b, c, d1, e1, d2, e2, n, p}, x]

6327. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.)*(x_))^{(m_.)}*((d1_.) + (e1_.)*(x_))^{(p_.)}*((d2_.) + (e2_.)*(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Int}[(f*x)^m*(d1*d2 + e1*e2*x^2)^p*(a + b*\text{ArcCosh}[c*x])^n, x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f, m, n\}, x\} \&\& \text{EqQ}[d2*e1 + d1*e2, 0] \&\& \text{IntegerQ}[p]$
6328. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*(x_)/((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/e \text{ Subst}[\text{Int}[(a + b*x)^n*\text{Coth}[x], x], x, \text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0]$
6329. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*(x_)*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(p+1)}*(a + b*\text{ArcCosh}[c*x])^n/(2*e*(p+1)), x] - \text{Simp}[b*(n/(2*c*(p+1)))*\text{Simp}[(d + e*x^2)^p/((1 + c*x)^p*(-1 + c*x)^p)] \text{ Int}[(1 + c*x)^{(p+1/2)}*(-1 + c*x)^{(p+1/2)}*(a + b*\text{ArcCosh}[c*x])^{(n-1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[p, -1]$
6330. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*(x_)*((d1_.) + (e1_.)*(x_))^{(p_.)}*((d2_.) + (e2_.)*(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(d1 + e1*x)^{(p+1)}*(d2 + e2*x)^{(p+1)}*(a + b*\text{ArcCosh}[c*x])^n/(2*e1*e2*(p+1)), x] - \text{Simp}[b*(n/(2*c*(p+1)))*\text{Simp}[(d1 + e1*x)^p/(1 + c*x)^p]*\text{Simp}[(d2 + e2*x)^p/(-1 + c*x)^p] \text{ Int}[(1 + c*x)^{(p+1/2)}*(-1 + c*x)^{(p+1/2)}*(a + b*\text{ArcCosh}[c*x])^{(n-1)}, x], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, p\}, x\} \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2] \&\& \text{GtQ}[n, 0] \&\& \text{NeQ}[p, -1]$
6331. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}/((x_)*((d_.) + (e_.)*(x_)^2)), x_Symbol] \rightarrow \text{Simp}[-d^{(-1)} \text{ Subst}[\text{Int}[(a + b*x)^n/(\text{Cosh}[x]*\text{Sinh}[x]), x], x, \text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0]$
6332. $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((f_.)*(x_))^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^{(p+1)}*(a + b*\text{ArcCosh}[c*x])^n/(d*f*(m+1)), x] + \text{Simp}[b*c*(n/(f*(m+1)))*\text{Simp}[(d + e*x^2)^p/((1 + c*x)^p*(-1 + c*x)^p)] \text{ Int}[(f*x)^{(m+1)}*(1 + c*x)^{(p+1/2)}*(-1 + c*x)^{(p+1/2)}*(a + b*\text{ArcCosh}[c*x])^{(n-1)}$

-), x], x] /; FreeQ[{a, b, c, d, e, f, m, p}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && EqQ[m + 2*p + 3, 0] && NeQ[m, -1]
6333. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((f_.)*(x_))^(m_)*((d1_ + (e1_.)*(x_))^(p_)*((d2_ + (e2_.)*(x_))^(p_)), x_Symbol] := Simp[(f*x)^(m + 1)*(d1 + e1*x)^(p + 1)*(d2 + e2*x)^(p + 1)*((a + b*ArcCosh[c*x])^n/(d1*d2*f*(m + 1))), x] + Simp[b*c*(n/(f*(m + 1)))*Simp[(d1 + e1*x)^p/(1 + c*x)^p]*Simp[(d2 + e2*x)^p/(-1 + c*x)^p] Int[(f*x)^(m + 1)*(1 + c*x)^(p + 1/2)*(-1 + c*x)^(p + 1/2)*(a + b*ArcCosh[c*x])^(n - 1), x], x] /; FreeQ[{a, b, c, d1, e1, d2, e2, f, m, p}, x] && EqQ[e1, c*d1] && EqQ[e2, (-c)*d2] && GtQ[n, 0] && EqQ[m + 2*p + 3, 0] && NeQ[p, -1]
6334. Int[(((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*((d_) + (e_.)*(x_)^2)^(p_.))/ (x_), x_Symbol] := Simp[(d + e*x^2)^p*((a + b*ArcCosh[c*x])/(2*p)), x] + (Simp[d Int[(d + e*x^2)^(p - 1)*((a + b*ArcCosh[c*x])/x), x], x] - Simp[b*c*((-d)^p/(2*p)) Int[(1 + c*x)^(p - 1/2)*(-1 + c*x)^(p - 1/2), x], x]) /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0]
6335. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[(f*x)^(m + 1)*(d + e*x^2)^p*((a + b*ArcCosh[c*x])/(f*(m + 1))), x] + (-Simp[b*c*((-d)^p/(f*(m + 1))) Int[(f*x)^(m + 1)*(1 + c*x)^(p - 1/2)*(-1 + c*x)^(p - 1/2), x], x] - Simp[2*e*(p/(f^2*(m + 1))) Int[(f*x)^(m + 2)*(d + e*x^2)^(p - 1)*(a + b*ArcCosh[c*x]), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && ILtQ[(m + 1)/2, 0]
6336. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*((f_.)*(x_))^(m_)*((d_) + (e_.)*(x_)^2)^(p_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x^2)^p, x]}, Simp[(a + b*ArcCosh[c*x]) u, x] - Simp[b*c Int[SimplifyIntegrand[u/(Sqrt[1 + c*x]*Sqrt[-1 + c*x]), x], x], x]] /; FreeQ[{a, b, c, d, e, f, m}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0]
6337. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*(x_)^(m_)*((d_) + (e_.)*(x_)^2)^(p_), x_Symbol] := With[{u = IntHide[x^m*(d + e*x^2)^p, x]}, Simp[(a + b*ArcCosh[c*x]) u, x] - Simp[b*c*Simp[Sqrt[d + e*x^2]/(Sqrt[1 + c

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*x]*Sqrt[-1 + c*x]]) Int[SimplifyIntegrand[u/Sqrt[d + e*x^2], x], x]
, x]] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IntegerQ[p
- 1/2] && NeQ[p, -2^(-1)] && (IGtQ[(m + 1)/2, 0] || ILtQ[(m + 2*p + 3)
/2, 0])

6338. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*(x_)^(m_)*((d1_) + (e1_.)*(x_)
)^(p_)*((d2_) + (e2_.)*(x_))^(p_), x_Symbol] := With[{u = IntHide[x^m*
(d1 + e1*x)^p*(d2 + e2*x)^p, x]}, Simp[(a + b*ArcCosh[c*x]) u, x] -
Simp[b*c*Simp[Sqrt[d1 + e1*x]*(Sqrt[d2 + e2*x]/(Sqrt[1 + c*x]*Sqrt[-1
+ c*x]))] Int[SimplifyIntegrand[u/(Sqrt[d1 + e1*x]*Sqrt[d2 + e2*x]),
x], x], x]] /; FreeQ[{a, b, c, d1, e1, d2, e2}, x] && EqQ[e1, c*d1] &
& EqQ[e2, (-c)*d2] && IntegerQ[p - 1/2] && NeQ[p, -2^(-1)] && (IGtQ[(m
+ 1)/2, 0] || ILtQ[(m + 2*p + 3)/2, 0])

6339. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((f_.)*(x_))^(m_)*Sqrt[(
d_) + (e_.)*(x_)^2], x_Symbol] := Simp[(f*x)^(m + 1)*Sqrt[d + e*x^2]*
(a + b*ArcCosh[c*x])^n/(f*(m + 1)), x] + (-Simp[b*c*(n/(f*(m + 1)))
*Simp[Sqrt[d + e*x^2]/(Sqrt[1 + c*x]*Sqrt[-1 + c*x])] Int[(f*x)^(m + 1)
*(a + b*ArcCosh[c*x])^(n - 1), x], x] - Simp[(c^2/(f^2*(m + 1)))
*Simp[Sqrt[d + e*x^2]/(Sqrt[1 + c*x]*Sqrt[-1 + c*x])] Int[(f*x)^(m + 2)*
(a + b*ArcCosh[c*x])^n/(Sqrt[1 + c*x]*Sqrt[-1 + c*x]), x], x]) /; Fre
eQ[{a, b, c, d, e, f}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && LtQ[m,
-1]

6340. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((f_.)*(x_))^(m_)*Sqrt[(
d1_) + (e1_.)*(x_)]*Sqrt[(d2_) + (e2_.)*(x_)], x_Symbol] := Simp[(f*x)
^(m + 1)*Sqrt[d1 + e1*x]*Sqrt[d2 + e2*x]*((a + b*ArcCosh[c*x])^n/(f*(m
+ 1))), x] + (-Simp[b*c*(n/(f*(m + 1)))
*Simp[Sqrt[d1 + e1*x]/Sqrt[1 + c*x]]*Simp[Sqrt[d2 + e2*x]/Sqrt[-1 + c*x]] Int[(f*x)^(m + 1)*(a + b
*ArcCosh[c*x])^(n - 1), x], x] - Simp[(c^2/(f^2*(m + 1)))
*Simp[Sqrt[d1 + e1*x]/Sqrt[1 + c*x]]*Simp[Sqrt[d2 + e2*x]/Sqrt[-1 + c*x]] Int[((f
x)^(m + 2)(a + b*ArcCosh[c*x])^n)/(Sqrt[1 + c*x]*Sqrt[-1 + c*x]), x]
, x]) /; FreeQ[{a, b, c, d1, e1, d2, e2, f}, x] && EqQ[e1, c*d1] && Eq
Q[e2, (-c)*d2] && GtQ[n, 0] && LtQ[m, -1]

6341. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((f_.)*(x_))^(m_)*Sqrt[(
d_) + (e_.)*(x_)^2], x_Symbol] := Simp[(f*x)^(m + 1)*Sqrt[d + e*x^2]*

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- $(a + b \operatorname{ArcCosh}[c*x])^n / (f*(m + 2))$ ,  $x$ ] +  $(-\operatorname{Simp}[(1/(m + 2)) * \operatorname{Simp}[\operatorname{Sqrt}[d + e*x^2] / (\operatorname{Sqrt}[1 + c*x] * \operatorname{Sqrt}[-1 + c*x])] \operatorname{Int}[(f*x)^m * ((a + b \operatorname{ArcCosh}[c*x])^n / (\operatorname{Sqrt}[1 + c*x] * \operatorname{Sqrt}[-1 + c*x]))$ ,  $x$ ,  $x$ ] -  $\operatorname{Simp}[b*c*(n/(f*(m + 2))) * \operatorname{Simp}[\operatorname{Sqrt}[d + e*x^2] / (\operatorname{Sqrt}[1 + c*x] * \operatorname{Sqrt}[-1 + c*x])] \operatorname{Int}[(f*x)^{m+1} * (a + b \operatorname{ArcCosh}[c*x])^{n-1}$ ,  $x$ ,  $x$ )] /;  $\operatorname{FreeQ}\{a, b, c, d, e, f, m\}, x$  &&  $\operatorname{EqQ}[c^2*d + e, 0]$  &&  $\operatorname{IGtQ}[n, 0]$  &&  $(\operatorname{IGtQ}[m, -2] \mid \mid \operatorname{EqQ}[n, 1])$
6342.  $\operatorname{Int}[(a + \operatorname{ArcCosh}[c*x])^n * (b*x)^m * \operatorname{Sqrt}[(d_1 + e_1*x) * \operatorname{Sqrt}[(d_2 + e_2*x) * \operatorname{Sqrt}[-1 + c*x]]]$ ,  $x$ ]  $\rightarrow$   $\operatorname{Simp}[(f*x)^{m+1} * \operatorname{Sqrt}[d_1 + e_1*x] * \operatorname{Sqrt}[d_2 + e_2*x] * ((a + b \operatorname{ArcCosh}[c*x])^n / (f*(m + 2)))$ ,  $x$ ] +  $(-\operatorname{Simp}[(1/(m + 2)) * \operatorname{Simp}[\operatorname{Sqrt}[d_1 + e_1*x] / \operatorname{Sqrt}[1 + c*x]] * \operatorname{Simp}[\operatorname{Sqrt}[d_2 + e_2*x] / \operatorname{Sqrt}[-1 + c*x]] \operatorname{Int}[(f*x)^m * ((a + b \operatorname{ArcCosh}[c*x])^n / (\operatorname{Sqrt}[1 + c*x] * \operatorname{Sqrt}[-1 + c*x]))$ ,  $x$ ,  $x$ ] -  $\operatorname{Simp}[b*c*(n/(f*(m + 2))) * \operatorname{Simp}[\operatorname{Sqrt}[d_1 + e_1*x] / \operatorname{Sqrt}[1 + c*x]] * \operatorname{Simp}[\operatorname{Sqrt}[d_2 + e_2*x] / \operatorname{Sqrt}[-1 + c*x]] \operatorname{Int}[(f*x)^{m+1} * (a + b \operatorname{ArcCosh}[c*x])^{n-1}$ ,  $x$ ,  $x$ )] /;  $\operatorname{FreeQ}\{a, b, c, d_1, e_1, d_2, e_2, f, m\}, x$  &&  $\operatorname{EqQ}[e_1, c*d_1]$  &&  $\operatorname{EqQ}[e_2, (-c)*d_2]$  &&  $\operatorname{IGtQ}[n, 0]$  &&  $(\operatorname{IGtQ}[m, -2] \mid \mid \operatorname{EqQ}[n, 1])$
6343.  $\operatorname{Int}[(a + \operatorname{ArcCosh}[c*x])^n * (b*x)^m * ((d + e*x^2)^p)$ ,  $x$ ]  $\rightarrow$   $\operatorname{Simp}[(f*x)^{m+1} * (d + e*x^2)^p * ((a + b \operatorname{ArcCosh}[c*x])^n / (f*(m + 1)))$ ,  $x$ ] +  $(-\operatorname{Simp}[2*e*(p/(f^2*(m + 1))) \operatorname{Int}[(f*x)^{m+2} * (d + e*x^2)^{p-1} * (a + b \operatorname{ArcCosh}[c*x])^n$ ,  $x$ ,  $x$ ] -  $\operatorname{Simp}[b*c*(n/(f*(m + 1))) * \operatorname{Simp}[(d + e*x^2)^p / ((1 + c*x)^p * (-1 + c*x)^p]$   $\operatorname{Int}[(f*x)^{m+1} * (1 + c*x)^{p-1/2} * (-1 + c*x)^{p-1/2} * (a + b \operatorname{ArcCosh}[c*x])^{n-1}$ ,  $x$ ,  $x$ )] /;  $\operatorname{FreeQ}\{a, b, c, d, e, f\}, x$  &&  $\operatorname{EqQ}[c^2*d + e, 0]$  &&  $\operatorname{GtQ}[n, 0]$  &&  $\operatorname{GtQ}[p, 0]$  &&  $\operatorname{LtQ}[m, -1]$
6344.  $\operatorname{Int}[(a + \operatorname{ArcCosh}[c*x])^n * (b*x)^m * ((d_1 + e_1*x)^p * ((d_2 + e_2*x)^p)$ ,  $x$ ]  $\rightarrow$   $\operatorname{Simp}[(f*x)^{m+1} * (d_1 + e_1*x)^p * (d_2 + e_2*x)^p * ((a + b \operatorname{ArcCosh}[c*x])^n / (f*(m + 1)))$ ,  $x$ ] +  $(-\operatorname{Simp}[2*e_1*e_2*(p/(f^2*(m + 1))) \operatorname{Int}[(f*x)^{m+2} * (d_1 + e_1*x)^{p-1} * (d_2 + e_2*x)^{p-1} * (a + b \operatorname{ArcCosh}[c*x])^n$ ,  $x$ ,  $x$ ] -  $\operatorname{Simp}[b*c*(n/(f*(m + 1))) * \operatorname{Simp}[(d_1 + e_1*x)^p / (1 + c*x)^p] * \operatorname{Simp}[(d_2 + e_2*x)^p / (-1 + c*x)^p] \operatorname{Int}[(f*x)^{m+1} * (1 + c*x)^{p-1/2} * (-1 + c*x)^{p-1/2} * (a + b \operatorname{ArcCosh}[c*x])^{n-1}$ ,  $x$ ,  $x$ )] /;  $\operatorname{FreeQ}\{a, b, c, d_1, e_1, d_2, e_2, f\}, x$  &&  $\operatorname{EqQ}[e_1, c*d_1]$  &&  $\operatorname{EqQ}[e_2, (-c)*d_2]$  &&  $\operatorname{GtQ}[n, 0]$  &&  $\operatorname{GtQ}[p, 0]$  &&  $\operatorname{LtQ}[m, -1]$

6345.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)(x_)](b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d_.) + (e_.)(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}(d + e*x^2)^p * (a + b*\text{ArcCosh}[c*x])^n / (f*(m + 2*p + 1)), x] + (\text{Simp}[2*d*(p/(m + 2*p + 1)) \text{Int}[(f*x)^m(d + e*x^2)^{(p-1)}(a + b*\text{ArcCosh}[c*x])^n, x], x] - \text{Simp}[b*c*(n/(f*(m + 2*p + 1)))*\text{Simp}[(d + e*x^2)^p / ((1 + c*x)^p * (-1 + c*x)^p)] \text{Int}[(f*x)^{(m+1)}(1 + c*x)^{(p-1/2)}(-1 + c*x)^{(p-1/2)}(a + b*\text{ArcCosh}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& !\text{LtQ}[m, -1]$
6346.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)(x_)](b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d1_.) + (e1_.)(x_))^{(p_.)}((d2_.) + (e2_.)(x_))^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}(d1 + e1*x)^p(d2 + e2*x)^p * (a + b*\text{ArcCosh}[c*x])^n / (f*(m + 2*p + 1)), x] + (\text{Simp}[2*d1*d2*(p/(m + 2*p + 1)) \text{Int}[(f*x)^m(d1 + e1*x)^{(p-1)}(d2 + e2*x)^{(p-1)}(a + b*\text{ArcCosh}[c*x])^n, x], x] - \text{Simp}[b*c*(n/(f*(m + 2*p + 1)))*\text{Simp}[(d1 + e1*x)^p / (1 + c*x)^p] * \text{Simp}[(d2 + e2*x)^p / (-1 + c*x)^p] \text{Int}[(f*x)^{(m+1)}(1 + c*x)^{(p-1/2)}(-1 + c*x)^{(p-1/2)}(a + b*\text{ArcCosh}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f, m\}, x] \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2] \&\& \text{GtQ}[n, 0] \&\& \text{GtQ}[p, 0] \&\& !\text{LtQ}[m, -1]$
6347.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)(x_)](b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d_.) + (e_.)(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}(d + e*x^2)^{(p+1)} * (a + b*\text{ArcCosh}[c*x])^n / (d*f*(m + 1)), x] + (\text{Simp}[c^2*((m + 2*p + 3)/(f^2*(m + 1))) \text{Int}[(f*x)^{(m+2)}(d + e*x^2)^p * (a + b*\text{ArcCosh}[c*x])^n, x], x] + \text{Simp}[b*c*(n/(f*(m + 1)))*\text{Simp}[(d + e*x^2)^p / ((1 + c*x)^p * (-1 + c*x)^p)] \text{Int}[(f*x)^{(m+1)}(1 + c*x)^{(p+1/2)}(-1 + c*x)^{(p+1/2)}(a + b*\text{ArcCosh}[c*x])^{(n-1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{ILtQ}[m, -1]$
6348.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)(x_)](b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d1_.) + (e1_.)(x_))^{(p_.)}((d2_.) + (e2_.)(x_))^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}(d1 + e1*x)^{(p+1)}(d2 + e2*x)^{(p+1)} * (a + b*\text{ArcCosh}[c*x])^n / (d1*d2*f*(m + 1)), x] + (\text{Simp}[c^2*((m + 2*p + 3)/(f^2*(m + 1))) \text{Int}[(f*x)^{(m+2)}(d1 + e1*x)^p(d2 + e2*x)^p * (a + b*\text{ArcCosh}[c*x])^n, x], x] + \text{Simp}[b*c*(n/(f*(m + 1)))*\text{Simp}[(d1 + e1*x)^p / (1 + c*x)^p] * \text{Simp}[(d2 + e2*x)^p / (-1 + c*x)^p] \text{Int}[(f*x)^{(m+1)}(1 + c*x)^{(p+1/2)}$

```

*(-1 + c*x)^(p + 1/2)*(a + b*ArcCosh[c*x])^(n - 1), x], x]) /; FreeQ[{
a, b, c, d1, e1, d2, e2, f, p}, x] && EqQ[e1, c*d1] && EqQ[e2, (-c)*d2
] && GtQ[n, 0] && ILtQ[m, -1]

```

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6349. Int[((a_.) + ArcCosh[(c_.)*(x_)])*(b_.))^(n_.)*((f_.)*(x_))^(m_.)*((d_.)
+ (e_.)*(x_)^2)^(p_), x_Symbol] := Simp[f*(f*x)^(m - 1)*(d + e*x^2)^(p
+ 1)*((a + b*ArcCosh[c*x])^n/(2*e*(p + 1))), x] + (-Simp[f^2*((m - 1)
/(2*e*(p + 1))) Int[(f*x)^(m - 2)*(d + e*x^2)^(p + 1)*(a + b*ArcCosh
[c*x])^n, x], x] - Simp[b*f*(n/(2*c*(p + 1)))*Simp[(d + e*x^2)^p/((1 +
c*x)^p*(-1 + c*x)^p)] Int[(f*x)^(m - 1)*(1 + c*x)^(p + 1/2)*(-1 + c
x)^(p + 1/2)(a + b*ArcCosh[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c,
d, e, f}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && LtQ[p, -1] && IGtQ[
m, 1]

```

```

6350. Int[((a_.) + ArcCosh[(c_.)*(x_)])*(b_.))^(n_.)*((f_.)*(x_))^(m_.)*((d1_)
+ (e1_.)*(x_)^(p_))*((d2_) + (e2_.)*(x_)^(p_)), x_Symbol] := Simp[f*(
f*x)^(m - 1)*(d1 + e1*x)^(p + 1)*(d2 + e2*x)^(p + 1)*((a + b*ArcCosh[c
*x])^n/(2*e1*e2*(p + 1))), x] + (-Simp[f^2*((m - 1)/(2*e1*e2*(p + 1)))
Int[(f*x)^(m - 2)*(d1 + e1*x)^(p + 1)*(d2 + e2*x)^(p + 1)*(a + b*Ar
cCosh[c*x])^n, x], x] - Simp[b*f*(n/(2*c*(p + 1)))*Simp[(d1 + e1*x)^p/
(1 + c*x)^p]*Simp[(d2 + e2*x)^p/(-1 + c*x)^p] Int[(f*x)^(m - 1)*(1 +
c*x)^(p + 1/2)*(-1 + c*x)^(p + 1/2)*(a + b*ArcCosh[c*x])^(n - 1), x],
x]) /; FreeQ[{a, b, c, d1, e1, d2, e2, f}, x] && EqQ[e1, c*d1] && EqQ
[e2, (-c)*d2] && GtQ[n, 0] && LtQ[p, -1] && IGtQ[m, 1]

```

```

6351. Int[((a_.) + ArcCosh[(c_.)*(x_)])*(b_.))^(n_.)*((f_.)*(x_))^(m_.)*((d_.)
+ (e_.)*(x_)^2)^(p_), x_Symbol] := Simp[(-(f*x)^(m + 1))*(d + e*x^2)^(
p + 1)*((a + b*ArcCosh[c*x])^n/(2*d*f*(p + 1))), x] + (Simp[(m + 2*p +
3)/(2*d*(p + 1)) Int[(f*x)^m*(d + e*x^2)^(p + 1)*(a + b*ArcCosh[c*x
])^n, x], x] - Simp[b*c*(n/(2*f*(p + 1)))*Simp[(d + e*x^2)^p/((1 + c*x
)^p*(-1 + c*x)^p)] Int[(f*x)^(m + 1)*(1 + c*x)^(p + 1/2)*(-1 + c*x)^(
p + 1/2)*(a + b*ArcCosh[c*x])^(n - 1), x], x]) /; FreeQ[{a, b, c, d,
e, f, m}, x] && EqQ[c^2*d + e, 0] && GtQ[n, 0] && LtQ[p, -1] && !GtQ[
m, 1] && (IntegerQ[m] || IntegerQ[p] || EqQ[n, 1])

```

```

6352. Int[((a_.) + ArcCosh[(c_.)*(x_)])*(b_.))^(n_.)*((f_.)*(x_))^(m_.)*((d1_)
+ (e1_.)*(x_)^(p_))*((d2_) + (e2_.)*(x_)^(p_)), x_Symbol] := Simp[(-

```

```

f*x)^(m + 1))*(d1 + e1*x)^(p + 1)*(d2 + e2*x)^(p + 1)*((a + b*ArcCosh[
c*x])^n/(2*d1*d2*f*(p + 1))), x] + (Simp[(m + 2*p + 3)/(2*d1*d2*(p + 1
)) Int[(f*x)^m*(d1 + e1*x)^(p + 1)*(d2 + e2*x)^(p + 1)*(a + b*ArcCos
h[c*x])^n, x], x] - Simp[b*c*(n/(2*f*(p + 1)))*Simp[(d1 + e1*x)^p/(1 +
c*x)^p]*Simp[(d2 + e2*x)^p/(-1 + c*x)^p] Int[(f*x)^(m + 1)*(1 + c*x
)^(p + 1/2)*(-1 + c*x)^(p + 1/2)*(a + b*ArcCosh[c*x])^(n - 1), x], x])
/; FreeQ[{a, b, c, d1, e1, d2, e2, f, m}, x] && EqQ[e1, c*d1] && EqQ[
e2, (-c)*d2] && GtQ[n, 0] && LtQ[p, -1] && !GtQ[m, 1] && (IntegerQ[m]
|| EqQ[n, 1])

```

6353.  $\text{Int}[(a + \text{ArcCosh}[c \cdot x]) \cdot (b \cdot x)^{n-1} \cdot (f \cdot x)^m \cdot (d + e \cdot x^2)^{p-1} \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^n / (e \cdot (m + 2p + 1))], x] + (\text{Simp}[f^2 \cdot ((m - 1) / (c^2 \cdot (m + 2p + 1)) \text{Int}[(f \cdot x)^{m-2} \cdot (d + e \cdot x^2)^p \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^n, x], x] - \text{Simp}[b \cdot f \cdot (n / (c \cdot (m + 2p + 1))) \cdot \text{Simp}[(d + e \cdot x^2)^p / ((1 + c \cdot x)^p \cdot (-1 + c \cdot x)^p)] \text{Int}[(f \cdot x)^{m-1} \cdot (1 + c \cdot x)^{p+1/2} \cdot (-1 + c \cdot x)^{p+1/2} \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^{n-1}], x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, p\}, x] \&\& \text{EqQ}[c^2 \cdot d + e, 0] \&\& \text{GtQ}[n, 0] \&\& \text{IGtQ}[m, 1] \&\& \text{NeQ}[m + 2p + 1, 0]$

6354.  $\text{Int}[(a + \text{ArcCosh}[c \cdot x]) \cdot (b \cdot x)^{n-1} \cdot (f \cdot x)^m \cdot (d_1 + e_1 \cdot x)^{p-1} \cdot (d_2 + e_2 \cdot x)^{p-1} \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^n / (e_1 \cdot e_2 \cdot (m + 2p + 1))], x] + (\text{Simp}[f^2 \cdot ((m - 1) / (c^2 \cdot (m + 2p + 1)) \text{Int}[(f \cdot x)^{m-2} \cdot (d_1 + e_1 \cdot x)^p \cdot (d_2 + e_2 \cdot x)^p \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^n, x], x] - \text{Simp}[b \cdot f \cdot (n / (c \cdot (m + 2p + 1))) \cdot \text{Simp}[(d_1 + e_1 \cdot x)^p / (1 + c \cdot x)^p] \cdot \text{Simp}[(d_2 + e_2 \cdot x)^p / (-1 + c \cdot x)^p] \text{Int}[(f \cdot x)^{m-1} \cdot (1 + c \cdot x)^{p+1/2} \cdot (-1 + c \cdot x)^{p+1/2} \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^{n-1}], x], x]) /; \text{FreeQ}\{a, b, c, d_1, e_1, d_2, e_2, f, p\}, x] \&\& \text{EqQ}[e_1, c \cdot d_1] \&\& \text{EqQ}[e_2, (-c) \cdot d_2] \&\& \text{GtQ}[n, 0] \&\& \text{IGtQ}[m, 1] \&\& \text{NeQ}[m + 2p + 1, 0]$

6355.  $\text{Int}[(a + \text{ArcCosh}[c \cdot x]) \cdot (b \cdot x)^{n-1} \cdot (f \cdot x)^m \cdot (d + e \cdot x^2)^{p-1} \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^n / (b \cdot c \cdot (n + 1))], x] + \text{Simp}[f \cdot (m / (b \cdot c \cdot (n + 1))) \cdot \text{Simp}[(d + e \cdot x^2)^p / ((1 + c \cdot x)^p \cdot (-1 + c \cdot x)^p)] \text{Int}[(f \cdot x)^{m-1} \cdot (1 + c \cdot x)^{p-1/2} \cdot (-1 + c \cdot x)^{p-1/2} \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^{n+1}], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x] \&\& \text{EqQ}[c^2 \cdot d + e, 0] \&\& \text{LtQ}[n, -1] \&\& \text{EqQ}[m + 2p + 1, 0]$

6356.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)(x_)](b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d1_.) + (e1_.)(x_))^{(p_.)}((d2_.) + (e2_.)(x_))^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^m * \text{Simp}[\text{Sqrt}[1 + c*x] * \text{Sqrt}[-1 + c*x] * (d1 + e1*x)^p * (d2 + e2*x)^p * ((a + b * \text{ArcCosh}[c*x])^{(n + 1)}) / (b*c*(n + 1))], x] + \text{Simp}[f*(m/(b*c*(n + 1)))] * \text{Simp}[(d1 + e1*x)^p / (1 + c*x)^p] * \text{Simp}[(d2 + e2*x)^p / (-1 + c*x)^p] \text{Int}[(f*x)^{(m - 1)} * (1 + c*x)^{(p - 1/2)} * (-1 + c*x)^{(p - 1/2)} * (a + b * \text{ArcCosh}[c*x])^{(n + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f, m, p\}, x] \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2] \&\& \text{LtQ}[n, -1] \&\& \text{EqQ}[m + 2*p + 1, 0]$
6357.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)(x_)](b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d_.) + (e_.)(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^m * \text{Simp}[\text{Sqrt}[1 + c*x] * \text{Sqrt}[-1 + c*x] * (d + e*x^2)^p * ((a + b * \text{ArcCosh}[c*x])^{(n + 1)}) / (b*c*(n + 1))], x] + (\text{Simp}[f*(m/(b*c*(n + 1)))] * \text{Simp}[(d + e*x^2)^p / ((1 + c*x)^p * (-1 + c*x)^p)] \text{Int}[(f*x)^{(m - 1)} * (1 + c*x)^{(p - 1/2)} * (-1 + c*x)^{(p - 1/2)} * (a + b * \text{ArcCosh}[c*x])^{(n + 1)}, x], x] - \text{Simp}[c*((m + 2*p + 1)/(b*f*(n + 1)))] * \text{Simp}[(d + e*x^2)^p / ((1 + c*x)^p * (-1 + c*x)^p)] \text{Int}[(f*x)^{(m + 1)} * (1 + c*x)^{(p - 1/2)} * (-1 + c*x)^{(p - 1/2)} * (a + b * \text{ArcCosh}[c*x])^{(n + 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n, -1] \&\& \text{IGtQ}[2*p, 0] \&\& \text{NeQ}[m + 2*p + 1, 0] \&\& \text{IGtQ}[m, -3]$
6358.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)(x_)](b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}((d1_.) + (e1_.)(x_))^{(p_.)}((d2_.) + (e2_.)(x_))^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^m * \text{Sqrt}[1 + c*x] * \text{Sqrt}[-1 + c*x] * (d1 + e1*x)^p * (d2 + e2*x)^p * ((a + b * \text{ArcCosh}[c*x])^{(n + 1)}) / (b*c*(n + 1))], x] + (\text{Simp}[f*(m/(b*c*(n + 1)))] * \text{Simp}[(d1 + e1*x)^p / (1 + c*x)^p] * \text{Simp}[(d2 + e2*x)^p / (-1 + c*x)^p] \text{Int}[(f*x)^{(m - 1)} * (-1 + c^2*x^2)^{(p - 1/2)} * (a + b * \text{ArcCosh}[c*x])^{(n + 1)}, x], x] - \text{Simp}[c*((m + 2*p + 1)/(b*f*(n + 1)))] * \text{Simp}[(d1 + e1*x)^p / (1 + c*x)^p] * \text{Simp}[(d2 + e2*x)^p / (-1 + c*x)^p] \text{Int}[(f*x)^{(m + 1)} * (-1 + c^2*x^2)^{(p - 1/2)} * (a + b * \text{ArcCosh}[c*x])^{(n + 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f, m, p\}, x] \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2] \&\& \text{LtQ}[n, -1] \&\& \text{IGtQ}[p + 1/2, 0] \&\& \text{NeQ}[m + 2*p + 1, 0] \&\& \text{IGtQ}[m, -3]$
6359.  $\text{Int}[(((a_.) + \text{ArcCosh}[(c_.)(x_)](b_.)]^{(n_.)}((f_.)(x_))^{(m_.)}) / \text{Sqrt}[(d_.) + (e_.)(x_)^2], x\_Symbol] \rightarrow \text{Simp}[f*(f*x)^{(m - 1)} * \text{Sqrt}[d + e*x^2]$



- $$2)*((a + b*\text{ArcCosh}[c*x])^n/(e*m)), x] + (\text{Simp}[f^2*((m - 1)/(c^2*m))$$

$$\text{Int}[(f*x)^{(m - 2)}*((a + b*\text{ArcCosh}[c*x])^n/\text{Sqrt}[d + e*x^2]), x], x] - \text{Simp}[b*f*(n/(c*m))*\text{Simp}[\text{Sqrt}[1 + c*x]*(\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d + e*x^2])]$$

$$\text{Int}[(f*x)^{(m - 1)}*(a + b*\text{ArcCosh}[c*x])^{(n - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{IGtQ}[m, 1]$$
6360. 
$$\text{Int}[(((a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^n)*((f_.)*(x_.))^m)/(\text{Sqrt}[(d1_.) + (e1_.)*(x_.)]*\text{Sqrt}[(d2_.) + (e2_.)*(x_.)]), x\_Symbol] \rightarrow \text{Simp}[f*(f*x)^{(m - 1)}*\text{Sqrt}[d1 + e1*x]*\text{Sqrt}[d2 + e2*x]*((a + b*\text{ArcCosh}[c*x])^n/(e1*e2*m)), x] + (\text{Simp}[f^2*((m - 1)/(c^2*m)) \ \text{Int}[(f*x)^{(m - 2)}*((a + b*\text{ArcCosh}[c*x])^n/(\text{Sqrt}[d1 + e1*x]*\text{Sqrt}[d2 + e2*x])), x], x] - \text{Simp}[b*f*(n/(c*m))*\text{Simp}[\text{Sqrt}[1 + c*x]/\text{Sqrt}[d1 + e1*x]]*\text{Simp}[\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d2 + e2*x]] \ \text{Int}[(f*x)^{(m - 1)}*(a + b*\text{ArcCosh}[c*x])^{(n - 1)}, x], x]) /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f\}, x \ \&\& \ \text{EqQ}[e1, c*d1] \ \&\& \ \text{EqQ}[e2, (-c)*d2] \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{IGtQ}[m, 1]$$
6361. 
$$\text{Int}[(((a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^n)*(x_)^m)/\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x\_Symbol] \rightarrow \text{Simp}[(1/c^{(m + 1)})*\text{Simp}[\text{Sqrt}[1 + c*x]*(\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d + e*x^2])] \ \text{Subst}[\text{Int}[(a + b*x)^n*\text{Cosh}[x]^m, x], x, \text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[m]$$
6362. 
$$\text{Int}[(((a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^n)*(x_)^m)/(\text{Sqrt}[(d1_.) + (e1_.)*(x_.)]*\text{Sqrt}[(d2_.) + (e2_.)*(x_.)]), x\_Symbol] \rightarrow \text{Simp}[(1/c^{(m + 1)})*\text{Simp}[\text{Sqrt}[1 + c*x]/\text{Sqrt}[d1 + e1*x]]*\text{Simp}[\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d2 + e2*x]] \ \text{Subst}[\text{Int}[(a + b*x)^n*\text{Cosh}[x]^m, x], x, \text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2\}, x \ \&\& \ \text{EqQ}[e1, c*d1] \ \&\& \ \text{EqQ}[e2, (-c)*d2] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[m]$$
6363. 
$$\text{Int}[(((a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))*((f_.)*(x_.))^m)/\text{Sqrt}[(d_.) + (e_.)*(x_)^2], x\_Symbol] \rightarrow \text{Simp}[(f*x)^{(m + 1)}/(f*(m + 1))]*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]]*(a + b*\text{ArcCosh}[c*x])*Hypergeometric2F1[1/2, (1 + m)/2, (3 + m)/2, c^2*x^2], x] + \text{Simp}[b*c*((f*x)^{(m + 2)}/(f^2*(m + 1)*(m + 2)))*\text{Simp}[\text{Sqrt}[1 + c*x]*(\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d + e*x^2])] *HypergeometricPFQ[\{1, 1 + m/2, 1 + m/2\}, \{3/2 + m/2, 2 + m/2\}, c^2*x^2], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{IntegerQ}[m]$$

6364.  $\text{Int}[(((a\_.) + \text{ArcCosh}[(c\_.)*(x\_)]*(b\_.)^m)*((f\_.)*(x\_))^m)/(\text{Sqrt}[(d1\_.) + (e1\_.)*(x\_)]*\text{Sqrt}[(d2\_.) + (e2\_.)*(x\_)]), x\_Symbol] \rightarrow \text{Simp}[(f*x)^{m+1}/(f*(m+1))*\text{Simp}[\text{Sqrt}[1 - c^2*x^2]/(\text{Sqrt}[d1 + e1*x]*\text{Sqrt}[d2 + e2*x])]*(a + b*\text{ArcCosh}[c*x])*Hypergeometric2F1[1/2, (1 + m)/2, (3 + m)/2, c^2*x^2], x] + \text{Simp}[b*c*((f*x)^{m+2}/(f^2*(m+1)*(m+2)))*\text{Simp}[\text{Sqrt}[1 + c*x]/\text{Sqrt}[d1 + e1*x]]*\text{Simp}[\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d2 + e2*x]]*HypergeometricPFQ[\{1, 1 + m/2, 1 + m/2\}, \{3/2 + m/2, 2 + m/2\}, c^2*x^2], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f, m\}, x] \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2] \&\& !\text{IntegerQ}[m]$
6365.  $\text{Int}[(((a\_.) + \text{ArcCosh}[(c\_.)*(x\_)]*(b\_.)^n)*((f\_.)*(x\_))^m)/(\text{Sqrt}[(d\_.) + (e\_.)*(x\_)^2], x\_Symbol] \rightarrow \text{Simp}[(f*x)^m*((a + b*\text{ArcCosh}[c*x])^{n+1}/(b*c*(n+1)))*\text{Simp}[\text{Sqrt}[1 + c*x]*(\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d + e*x^2])], x] - \text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[\text{Sqrt}[1 + c*x]*(\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d + e*x^2])] \text{Int}[(f*x)^{m-1}*(a + b*\text{ArcCosh}[c*x])^{n+1}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[n, -1]$
6366.  $\text{Int}[(((a\_.) + \text{ArcCosh}[(c\_.)*(x\_)]*(b\_.)^n)*((f\_.)*(x\_))^m)/(\text{Sqrt}[(d1\_.) + (e1\_.)*(x\_)]*\text{Sqrt}[(d2\_.) + (e2\_.)*(x\_)]), x\_Symbol] \rightarrow \text{Simp}[(f*x)^m*((a + b*\text{ArcCosh}[c*x])^{n+1}/(b*c*(n+1)))*\text{Simp}[\text{Sqrt}[1 + c*x]/\text{Sqrt}[d1 + e1*x]]*\text{Simp}[\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d2 + e2*x]], x] - \text{Simp}[f*(m/(b*c*(n+1)))*\text{Simp}[\text{Sqrt}[1 + c*x]/\text{Sqrt}[d1 + e1*x]]*\text{Simp}[\text{Sqrt}[-1 + c*x]/\text{Sqrt}[d2 + e2*x]] \text{Int}[(f*x)^{m-1}*(a + b*\text{ArcCosh}[c*x])^{n+1}, x], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2, f, m\}, x] \&\& \text{EqQ}[e1, c*d1] \&\& \text{EqQ}[e2, (-c)*d2] \&\& \text{LtQ}[n, -1]$
6367.  $\text{Int}[(a\_.) + \text{ArcCosh}[(c\_.)*(x\_)]*(b\_.)^n*(x\_)^m*((d\_.) + (e\_.)*(x\_)^2)^p, x\_Symbol] \rightarrow \text{Simp}[(1/(b*c^{m+1}))*\text{Simp}[(d + e*x^2)^p/((1 + c*x)^p*(-1 + c*x)^p)] \text{Subst}[\text{Int}[x^n*\text{Cosh}[-a/b + x/b]^m*\text{Sinh}[-a/b + x/b]^{2*p+1}, x], x, a + b*\text{ArcCosh}[c*x]], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[2*p + 2, 0] \&\& \text{IGtQ}[m, 0]$
6368.  $\text{Int}[(a\_.) + \text{ArcCosh}[(c\_.)*(x\_)]*(b\_.)^n*(x\_)^m*((d1\_.) + (e1\_.)*(x\_)^2)^p*((d2\_.) + (e2\_.)*(x\_))^p, x\_Symbol] \rightarrow \text{Simp}[(1/(b*c^{m+1}))*\text{Simp}[(d1 + e1*x)^p/(1 + c*x)^p]*\text{Simp}[(d2 + e2*x)^p/(-1 + c*x$

- $$\int x^p \operatorname{Subst}\left[\int x^n \cosh\left[-\frac{a}{b} + \frac{x}{b}\right]^m \sinh\left[-\frac{a}{b} + \frac{x}{b}\right]^{2p+1}, x\right], x, a + b \operatorname{ArcCosh}[c x], x \;/; \operatorname{FreeQ}\{a, b, c, d_1, e_1, d_2, e_2, n\}, x \&\& \operatorname{EqQ}[e_1, c d_1] \&\& \operatorname{EqQ}[e_2, (-c) d_2] \&\& \operatorname{IGtQ}[p + 3/2, 0] \&\& \operatorname{IGtQ}[m, 0]$$
6369.  $\operatorname{Int}\left[\left((a_{\_}) + \operatorname{ArcCosh}\left[(c_{\_}) (x_{\_})\right] (b_{\_})\right)^{(n_{\_})} \left((f_{\_}) (x_{\_})\right)^{(m_{\_})} \left((d_{\_}) + (e_{\_}) (x_{\_})^2\right)^{(p_{\_})}, x_{\_}\operatorname{Symbol}\right] \rightarrow \operatorname{Int}\left[\operatorname{ExpandIntegrand}\left[(a + b \operatorname{ArcCosh}[c x])^n / \sqrt{d + e x^2}, (f x)^m (d + e x^2)^{p + 1/2}, x\right], x\right] \;/; \operatorname{FreeQ}\{a, b, c, d, e, f, m, n\}, x \&\& \operatorname{EqQ}[c^2 d + e, 0] \&\& \operatorname{IGtQ}[p + 1/2, 0] \&\& \operatorname{!IGtQ}[(m + 1)/2, 0] \&\& (\operatorname{EqQ}[m, -1] \mid \mid \operatorname{EqQ}[m, -2])$
6370.  $\operatorname{Int}\left[\left((a_{\_}) + \operatorname{ArcCosh}\left[(c_{\_}) (x_{\_})\right] (b_{\_})\right)^{(n_{\_})} \left((f_{\_}) (x_{\_})\right)^{(m_{\_})} \left((d_1_{\_}) + (e_1_{\_}) (x_{\_})^2\right)^{(p_{\_})} \left((d_2_{\_}) + (e_2_{\_}) (x_{\_})^2\right)^{(p_{\_})}, x_{\_}\operatorname{Symbol}\right] \rightarrow \operatorname{Int}\left[\operatorname{ExpandIntegrand}\left[(a + b \operatorname{ArcCosh}[c x])^n / (\sqrt{d_1 + e_1 x} \sqrt{d_2 + e_2 x}), (f x)^m (d_1 + e_1 x)^{p + 1/2} (d_2 + e_2 x)^{p + 1/2}, x\right], x\right] \;/; \operatorname{FreeQ}\{a, b, c, d_1, e_1, d_2, e_2, f, m, n\}, x \&\& \operatorname{EqQ}[e_1, c d_1] \&\& \operatorname{EqQ}[e_2, (-c) d_2] \&\& \operatorname{GtQ}[d_1, 0] \&\& \operatorname{LtQ}[d_2, 0] \&\& \operatorname{IGtQ}[p + 1/2, 0] \&\& \operatorname{!IGtQ}[(m + 1)/2, 0] \&\& (\operatorname{EqQ}[m, -1] \mid \mid \operatorname{EqQ}[m, -2])$
6371.  $\operatorname{Int}\left[\left((a_{\_}) + \operatorname{ArcCosh}\left[(c_{\_}) (x_{\_})\right] (b_{\_})\right) \left((f_{\_}) (x_{\_})\right)^{(m_{\_})} \left((d_{\_}) + (e_{\_}) (x_{\_})^2\right), x_{\_}\operatorname{Symbol}\right] \rightarrow \operatorname{Simp}\left[d (f x)^{m+1} \left((a + b \operatorname{ArcCosh}[c x]) / (f (m + 1))\right), x\right] + \left(\operatorname{Simp}\left[e (f x)^{m+3} \left((a + b \operatorname{ArcCosh}[c x]) / (f^3 (m + 3))\right), x\right] - \operatorname{Simp}\left[b (c / (f (m + 1) (m + 3))) \operatorname{Int}\left[(f x)^{m+1} \left((d (m + 3) + e (m + 1) x^2) / (\sqrt{1 + c x} \sqrt{-1 + c x})\right), x\right], x\right]\right) \;/; \operatorname{FreeQ}\{a, b, c, d, e, f, m\}, x \&\& \operatorname{NeQ}[c^2 d + e, 0] \&\& \operatorname{NeQ}[m, -1] \&\& \operatorname{NeQ}[m, -3]$
6372.  $\operatorname{Int}\left[\left((a_{\_}) + \operatorname{ArcCosh}\left[(c_{\_}) (x_{\_})\right] (b_{\_})\right) (x_{\_}) \left((d_{\_}) + (e_{\_}) (x_{\_})^2\right)^{(p_{\_})}, x_{\_}\operatorname{Symbol}\right] \rightarrow \operatorname{Simp}\left[(d + e x^2)^{p+1} \left((a + b \operatorname{ArcCosh}[c x]) / (2 e (p + 1))\right), x\right] - \operatorname{Simp}\left[b (c / (2 e (p + 1))) \operatorname{Int}\left[(d + e x^2)^{p+1} / (\sqrt{1 + c x} \sqrt{-1 + c x}), x\right], x\right] \;/; \operatorname{FreeQ}\{a, b, c, d, e, p\}, x \&\& \operatorname{NeQ}[c^2 d + e, 0] \&\& \operatorname{NeQ}[p, -1]$
6373.  $\operatorname{Int}\left[\left((a_{\_}) + \operatorname{ArcCosh}\left[(c_{\_}) (x_{\_})\right] (b_{\_})\right) \left((f_{\_}) (x_{\_})\right)^{(m_{\_})} \left((d_{\_}) + (e_{\_}) (x_{\_})^2\right)^{(p_{\_})}, x_{\_}\operatorname{Symbol}\right] \rightarrow \operatorname{With}\left[\{u = \operatorname{IntHide}\left[(f x)^m (d + e x^2)^p, x\right]\}, \operatorname{Simp}\left[(a + b \operatorname{ArcCosh}[c x]) u, x\right] - \operatorname{Simp}\left[b c \operatorname{Int}\left[\operatorname{SimplifyIntegrand}\left[u / (\sqrt{1 + c x} \sqrt{-1 + c x}), x\right], x\right], x\right]\right] \;/; \operatorname{FreeQ}\{a, b, c,$

$d, e, f, m\}, x] \&\& \text{NeQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p] \&\& (\text{GtQ}[p, 0] \parallel$   
 $(\text{IGtQ}[(m - 1)/2, 0] \&\& \text{LeQ}[m + p, 0]))$

6374.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^{\text{n_.}}*((f_.)*(x_.))^{\text{m_.}}*((d_.) + (e_.)*(x_.)^2)^{\text{p_.}}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCosh}[c*x])^n, (f*x)^m*(d + e*x^2)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{NeQ}[c^2*d + e, 0] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[p] \&\& \text{IntegerQ}[m]$

6375.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^{\text{n_.}}*((f_.)*(x_.))^{\text{m_.}}*((d_.) + (e_.)*(x_.)^2)^{\text{p_.}}, x\_Symbol] \rightarrow \text{Unintegrable}[(f*x)^m*(d + e*x^2)^p*(a + b*\text{ArcCosh}[c*x])^n, x] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p\}, x]$

6376.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^{\text{n_.}}*((f_.)*(x_.))^{\text{m_.}}*((d1_.) + (e1_.)*(x_.))^{\text{p_.}}*((d2_.) + (e2_.)*(x_.))^{\text{p_.}}, x\_Symbol] \rightarrow \text{Unintegrable}[(f*x)^m*(d1 + e1*x)^p*(d2 + e2*x)^p*(a + b*\text{ArcCosh}[c*x])^n, x] /; \text{FreeQ}[\{a, b, c, d1, e1, d2, e2, f, m, n, p\}, x]$

6377.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^{\text{n_.}}/((d_.) + (e_.)*(x_.)), x\_Symbol] \rightarrow \text{Subst}[\text{Int}[(a + b*x)^n*(\text{Sinh}[x]/(c*d + e*\text{Cosh}[x]))], x], x, \text{ArcCosh}[c*x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[n, 0]$

6378.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^{\text{n_.}}*((d_.) + (e_.)*(x_.))^{\text{m_.}}, x\_Symbol] \rightarrow \text{Simp}[(d + e*x)^{m+1}*((a + b*\text{ArcCosh}[c*x])^n/(e*(m+1))), x] - \text{Simp}[b*c*(n/(e*(m+1))) \text{Int}[(d + e*x)^{m+1}*((a + b*\text{ArcCosh}[c*x])^{n-1}/(\text{Sqrt}[-1 + c*x]*\text{Sqrt}[1 + c*x])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{NeQ}[m, -1]$

6379.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^{\text{n_.}}*((d_.) + (e_.)*(x_.))^{\text{m_.}}, x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d + e*x)^m*(a + b*\text{ArcCosh}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{LtQ}[n, -1]$

6380.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_.)]*(b_.))^{\text{n_.}}*((d_.) + (e_.)*(x_.))^{\text{m_.}}, x\_Symbol] \rightarrow \text{Simp}[1/c^{m+1} \text{Subst}[\text{Int}[(a + b*x)^n*\text{Sinh}[x]*(c*d + e*\text{Cosh}[x])^m, x], x, \text{ArcCosh}[c*x]], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[m, 0]$

6381.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]*(Px_), x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[\text{ExpandExpression}[Px, x], x]\}, \text{Simp}[(a + b*\text{ArcCosh}[c*x]) u, x] - \text{Simp}[b*c*(\text{Sqrt}[1 - c^2*x^2]/(\text{Sqrt}[-1 + c*x]*\text{Sqrt}[1 + c*x])) \text{Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[1 - c^2*x^2], x], x], x]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{PolyQ}[Px, x]$
6382.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_)}*(Px_), x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Px*(a + b*\text{ArcCosh}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, n\}, x] \&\& \text{PolyQ}[Px, x]$
6383.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]*(Px_)*((d_.) + (e_.)*(x_))^{(m_)}., x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[Px*(d + e*x)^m, x]\}, \text{Simp}[(a + b*\text{ArcCosh}[c*x]) u, x] - \text{Simp}[b*c*(\text{Sqrt}[1 - c^2*x^2]/(\text{Sqrt}[-1 + c*x]*\text{Sqrt}[1 + c*x])) \text{Int}[\text{SimplifyIntegrand}[u/\text{Sqrt}[1 - c^2*x^2], x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \&\& \text{PolyQ}[Px, x]$
6384.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_)}*((d_.) + (e_.)*(x_))^{(m_)}*((f_.) + (g_.)*(x_))^{(p_)}., x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(f + g*x)^p*(d + e*x)^m, x]\}, \text{Simp}[(a + b*\text{ArcCosh}[c*x])^n u, x] - \text{Simp}[b*c*n \text{Int}[\text{SimplifyIntegrand}[u*((a + b*\text{ArcCosh}[c*x])^{(n-1)})/(\text{Sqrt}[-1 + c*x]*\text{Sqrt}[1 + c*x]), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{ILtQ}[m, 0] \&\& \text{LtQ}[m + p + 1, 0]$
6385.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_)}*((f_.) + (g_.)*(x_.) + (h_.)*(x_.)^2)^{(p_)}./((d_.) + (e_.)*(x_))^{2}, x\_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(f + g*x + h*x^2)^p/(d + e*x)^2, x]\}, \text{Simp}[(a + b*\text{ArcCosh}[c*x])^n u, x] - \text{Simp}[b*c*n \text{Int}[\text{SimplifyIntegrand}[u*((a + b*\text{ArcCosh}[c*x])^{(n-1)})/(\text{Sqrt}[-1 + c*x]*\text{Sqrt}[1 + c*x]), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[e*g - 2*d*h, 0]$
6386.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_)}*(Px_)*((d_.) + (e_.)*(x_))^{(m_)}., x\_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Px*(d + e*x)^m*(a + b*\text{ArcCosh}[c*x])^n, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[m]$
6387.  $\text{Int}[(a_.) + \text{ArcCosh}[(c_.)*(x_)]*(b_.)]^{(n_)}*((f_.) + (g_.)*(x_))^{(m_)}*((d_.) + (e_.)*(x_.)^2)^{(p_)}., x\_Symbol] \rightarrow \text{Simp}[(-d)^{\text{IntPart}[p]}*((d +$

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e*x^2)^FracPart[p]/((-1 + c*x)^FracPart[p]*(1 + c*x)^FracPart[p])) Int
nt[(f + g*x)^m*(-1 + c*x)^p*(1 + c*x)^p*(a + b*ArcCosh[c*x])^n, x], x]
/; FreeQ[{a, b, c, d, e, f, g, n}, x] && EqQ[c^2*d + e, 0] && Integer
Q[p - 1/2] && IntegerQ[m]

6388. Int[Log[(h_.)*((f_.) + (g_.)*(x_))^(m_.)]*((a_.) + ArcCosh[(c_.)*(x_)]
*(b_.))^(n_.)*((d_) + (e_.)*(x_)^2)^(p_), x_Symbol] := Simp[(-d)^IntPa
rt[p]*((d + e*x^2)^FracPart[p]/((-1 + c*x)^FracPart[p]*(1 + c*x)^FracP
art[p])) Int[Log[h*(f + g*x)^m]*(-1 + c*x)^p*(1 + c*x)^p*(a + b*ArcC
osh[c*x])^n, x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n}, x] && EqQ
[c^2*d + e, 0] && IntegerQ[p - 1/2]

6389. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*((d1_) + (e1_.)*(x_))^(p_)*((d
2_) + (e2_.)*(x_))^(p_)*((f_) + (g_.)*(x_))^(m_), x_Symbol] := With[({
u = IntHide[(f + g*x)^m*(d1 + e1*x)^p*(d2 + e2*x)^p, x]}, Simp[(a + b*
ArcCosh[c*x]) u, x] - Simp[b*c Int[1/(Sqrt[-1 + c*x]*Sqrt[1 + c*x]
) u, x], x]] /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g}, x] && EqQ[e1
- c*d1, 0] && EqQ[e2 + c*d2, 0] && IGtQ[m, 0] && ILtQ[p + 1/2, 0] && G
tQ[d1, 0] && LtQ[d2, 0] && (GtQ[m, 3] || LtQ[m, -2*p - 1])

6390. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d1_) + (e1_.)*(x_))^(p
_)*((d2_) + (e2_.)*(x_))^(p_)*((f_) + (g_.)*(x_))^(m_), x_Symbol] :=
Int[ExpandIntegrand[(d1 + e1*x)^p*(d2 + e2*x)^p*(a + b*ArcCosh[c*x])^n
, (f + g*x)^m, x], x] /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g}, x] &&
EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && IGtQ[m, 0] && IntegerQ[p + 1
/2] && GtQ[d1, 0] && LtQ[d2, 0] && IGtQ[n, 0] && ((EqQ[n, 1] && GtQ[p,
-1]) || GtQ[p, 0] || EqQ[m, 1] || (EqQ[m, 2] && LtQ[p, -2]))

6391. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*Sqrt[(d1_) + (e1_.)*(x_)
]*Sqrt[(d2_) + (e2_.)*(x_)]*((f_) + (g_.)*(x_))^(m_), x_Symbol] := Sim
p[(f + g*x)^m*(d1*d2 + e1*e2*x^2)*((a + b*ArcCosh[c*x])^(n + 1)/(b*c*S
qrt[(-d1)*d2]*(n + 1))), x] - Simp[1/(b*c*Sqrt[(-d1)*d2]*(n + 1)) Int
[(d1*d2*g*m + 2*e1*e2*f*x + e1*e2*g*(m + 2)*x^2)*(f + g*x)^(m - 1)*(a
+ b*ArcCosh[c*x])^(n + 1), x], x] /; FreeQ[{a, b, c, d1, e1, d2, e2,
f, g}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && ILtQ[m, 0] && G
tQ[d1, 0] && LtQ[d2, 0] && IGtQ[n, 0]

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6392. $\text{Int}[\left((a_{_}) + \text{ArcCosh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*\left((d1_{_}) + (e1_{_})*(x_{_})\right)^{(p_{_})}*\left((d2_{_}) + (e2_{_})*(x_{_})\right)^{(p_{_})}*\left((f_{_}) + (g_{_})*(x_{_})\right)^{(m_{_})}, x_Symbol] \rightarrow$
 $\text{Int}[\text{ExpandIntegrand}[\text{Sqrt}[d1 + e1*x]*\text{Sqrt}[d2 + e2*x]*(a + b*\text{ArcCosh}[c*x])^n, (f + g*x)^m*(d1 + e1*x)^{(p - 1/2)}*(d2 + e2*x)^{(p - 1/2)}, x], x]$
 /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && IntegerQ[m] && IGtQ[p + 1/2, 0] && GtQ[d1, 0] && LtQ[d2, 0] && IGtQ[n, 0]
6393. $\text{Int}[\left((a_{_}) + \text{ArcCosh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*\left((d1_{_}) + (e1_{_})*(x_{_})\right)^{(p_{_})}*\left((d2_{_}) + (e2_{_})*(x_{_})\right)^{(p_{_})}*\left((f_{_}) + (g_{_})*(x_{_})\right)^{(m_{_})}, x_Symbol] \rightarrow$
 $\text{Simp}[(f + g*x)^m*(d1 + e1*x)^{(p + 1/2)}*(d2 + e2*x)^{(p + 1/2)}*((a + b*\text{ArcCosh}[c*x])^{(n + 1)})/(b*c*\text{Sqrt}[(-d1)*d2]*(n + 1)), x] - \text{Simp}[1/(b*c*\text{Sqrt}[(-d1)*d2]*(n + 1)) \text{Int}[\text{ExpandIntegrand}[(f + g*x)^{(m - 1)}*(a + b*\text{ArcCosh}[c*x])^{(n + 1)}, (d1*d2*g*m + e1*e2*f*(2*p + 1)*x + e1*e2*g*(m + 2*p + 1)*x^2)*(d1 + e1*x)^{(p - 1/2)}*(d2 + e2*x)^{(p - 1/2)}, x], x], x]$
 /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && ILtQ[m, 0] && IGtQ[p - 1/2, 0] && GtQ[d1, 0] && LtQ[d2, 0] && IGtQ[n, 0]
6394. $\text{Int}[\left(\left(\left(a_{_}\right) + \text{ArcCosh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*\left((f_{_}) + (g_{_})*(x_{_})\right)^{(m_{_})}\right)/\left(\text{Sqrt}[(d1_{_}) + (e1_{_})*(x_{_})]*\text{Sqrt}[(d2_{_}) + (e2_{_})*(x_{_})]\right), x_Symbol] \rightarrow$
 $\text{Simp}[(f + g*x)^m*((a + b*\text{ArcCosh}[c*x])^{(n + 1)})/(b*c*\text{Sqrt}[(-d1)*d2]*(n + 1)), x] - \text{Simp}[g*(m/(b*c*\text{Sqrt}[(-d1)*d2]*(n + 1))) \text{Int}[(f + g*x)^{(m - 1)}*(a + b*\text{ArcCosh}[c*x])^{(n + 1)}, x], x]$
 /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && IGtQ[m, 0] && GtQ[d1, 0] && LtQ[d2, 0] && LtQ[n, -1]
6395. $\text{Int}[\left(\left(\left(a_{_}\right) + \text{ArcCosh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*\left((f_{_}) + (g_{_})*(x_{_})\right)^{(m_{_})}\right)/\left(\text{Sqrt}[(d1_{_}) + (e1_{_})*(x_{_})]*\text{Sqrt}[(d2_{_}) + (e2_{_})*(x_{_})]\right), x_Symbol] \rightarrow$
 $\text{Simp}[1/(c^{(m + 1)}*\text{Sqrt}[(-d1)*d2]) \text{Subst}[\text{Int}[(a + b*x)^n*(c*f + g*\text{Cosh}[x])^m, x], x, \text{ArcCosh}[c*x]], x]$
 /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g, n}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && IntegerQ[m] && GtQ[d1, 0] && LtQ[d2, 0] && (GtQ[m, 0] || IGtQ[n, 0])
6396. $\text{Int}[\left((a_{_}) + \text{ArcCosh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(n_{_})}*\left((d1_{_}) + (e1_{_})*(x_{_})\right)^{(p_{_})}*\left((d2_{_}) + (e2_{_})*(x_{_})\right)^{(p_{_})}*\left((f_{_}) + (g_{_})*(x_{_})\right)^{(m_{_})}, x_Symbol] \rightarrow$
 $\text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCosh}[c*x])^n/(\text{Sqrt}[d1 + e1*x]*\text{Sqrt}[d2 +$

- $e2*x]$), $(f + g*x)^m*(d1 + e1*x)^{(p + 1/2)}*(d2 + e2*x)^{(p + 1/2)}$, $x]$, x /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && IntegerQ[m] && ILtQ[p + 1/2, 0] && GtQ[d1, 0] && LtQ[d2, 0] && IGtQ[n, 0]
6397. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d1_) + (e1_.)*(x_))^(p_) * ((d2_) + (e2_.)*(x_))^(p_) * ((f_) + (g_.)*(x_))^(m_.), x_Symbol] :> Simp[(-d1)*d2]^IntPart[p]*(d1 + e1*x)^FracPart[p]*((d2 + e2*x)^FracPart[p]/((-1 + c*x)^FracPart[p]*(1 + c*x)^FracPart[p])) Int[(f + g*x)^m*(-1 + c*x)^p*(1 + c*x)^p*(a + b*ArcCosh[c*x])^n, x], x] /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g, n}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && IntegerQ[m] && IntegerQ[p - 1/2] && !(GtQ[d1, 0] && LtQ[d2, 0])
6398. Int[(Log[(h_.)*((f_.) + (g_.)*(x_))^(m_.)]*((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.))/(Sqrt[(d1_) + (e1_.)*(x_)]*Sqrt[(d2_) + (e2_.)*(x_)]), x_Symbol] :> Simp[Log[h*(f + g*x)^m]*((a + b*ArcCosh[c*x])^(n + 1)/(b*c*Sqrt[(-d1)*d2]*(n + 1))), x] - Simp[g*(m/(b*c*Sqrt[(-d1)*d2]*(n + 1))) Int[(a + b*ArcCosh[c*x])^(n + 1)/(f + g*x), x], x] /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g, h, m}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && GtQ[d1, 0] && LtQ[d2, 0] && IGtQ[n, 0]
6399. Int[Log[(h_.)*((f_.) + (g_.)*(x_))^(m_.)]*((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))^(n_.)*((d1_) + (e1_.)*(x_))^(p_) * ((d2_) + (e2_.)*(x_))^(p_), x_Symbol] :> Simp[(-d1)*d2]^IntPart[p]*(d1 + e1*x)^FracPart[p]*((d2 + e2*x)^FracPart[p]/((-1 + c*x)^FracPart[p]*(1 + c*x)^FracPart[p])) Int[Log[h*(f + g*x)^m]*(-1 + c*x)^p*(1 + c*x)^p*(a + b*ArcCosh[c*x])^n, x], x] /; FreeQ[{a, b, c, d1, e1, d2, e2, f, g, h, m, n}, x] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && IntegerQ[p - 1/2] && !(GtQ[d1, 0] && LtQ[d2, 0])
6400. Int[((a_.) + ArcCosh[(c_.)*(x_)]*(b_.))*((d_) + (e_.)*(x_))^(m_)*((f_) + (g_.)*(x_))^(m_), x_Symbol] :> With[{u = IntHide[(d + e*x)^m*(f + g*x)^m, x]}, Simp[(a + b*ArcCosh[c*x]) u, x] - Simp[b*c Int[1/(Sqrt[-1 + c*x]*Sqrt[1 + c*x]) u, x], x]] /; FreeQ[{a, b, c, d, e, f, g}, x] && ILtQ[m + 1/2, 0]

6401. $\text{Int}[(a + \text{ArcCosh}[c \cdot x] \cdot b)^n \cdot (d + e \cdot x)^m \cdot (f + g \cdot x)^m, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcCosh}[c \cdot x])^n \cdot (d + e \cdot x)^m \cdot (f + g \cdot x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, n\}, x] \ \&\& \ \text{IntegerQ}[m]$
6402. $\text{Int}[(a + \text{ArcCosh}[c \cdot x] \cdot b) \cdot u, x_Symbol] \rightarrow \text{With}[\{v = \text{IntHide}[u, x]\}, \text{Simp}[(a + b \cdot \text{ArcCosh}[c \cdot x]) \cdot v, x] - \text{Simp}[b \cdot c \cdot (\text{Sqrt}[1 - c^2 \cdot x^2] / (\text{Sqrt}[-1 + c \cdot x] \cdot \text{Sqrt}[1 + c \cdot x])) \cdot \text{Int}[\text{SimplifyIntegrand}[v / \text{Sqrt}[1 - c^2 \cdot x^2], x], x], x] /; \text{InverseFunctionFreeQ}[v, x] /; \text{FreeQ}[\{a, b, c\}, x]$
6403. $\text{Int}[(a + \text{ArcCosh}[c \cdot x] \cdot b)^n \cdot (P_x) \cdot (d_1 + e_1 \cdot x)^p \cdot (d_2 + e_2 \cdot x)^p, x_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[P_x \cdot (d_1 + e_1 \cdot x)^p \cdot (d_2 + e_2 \cdot x)^p \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^n, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{a, b, c, d_1, e_1, d_2, e_2, n\}, x] \ \&\& \ \text{PolyQ}[P_x, x] \ \&\& \ \text{EqQ}[e_1 - c \cdot d_1, 0] \ \&\& \ \text{EqQ}[e_2 + c \cdot d_2, 0] \ \&\& \ \text{IntegerQ}[p - 1/2]$
6404. $\text{Int}[(a + \text{ArcCosh}[c \cdot x] \cdot b)^n \cdot (P_x) \cdot (f + g \cdot (d_1 + e_1 \cdot x)^p \cdot (d_2 + e_2 \cdot x)^p)^m, x_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[P_x \cdot (f + g \cdot (d_1 + e_1 \cdot x)^p \cdot (d_2 + e_2 \cdot x)^p)^m \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^n, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{a, b, c, d_1, e_1, d_2, e_2, f, g\}, x] \ \&\& \ \text{PolyQ}[P_x, x] \ \&\& \ \text{EqQ}[e_1 - c \cdot d_1, 0] \ \&\& \ \text{EqQ}[e_2 + c \cdot d_2, 0] \ \&\& \ \text{IGtQ}[p + 1/2, 0] \ \&\& \ \text{IntegersQ}[m, n]$
6405. $\text{Int}[\text{ArcCosh}[c \cdot x]^n \cdot (R_x), x_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[\text{ArcCosh}[c \cdot x]^n, R_x, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[c, x] \ \&\& \ \text{RationalFunctionQ}[R_x, x] \ \&\& \ \text{IGtQ}[n, 0]$
6406. $\text{Int}[(\text{ArcCosh}[c \cdot x] \cdot b + a)^n \cdot (R_x), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[R_x \cdot (a + b \cdot \text{ArcCosh}[c \cdot x])^n, x], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{RationalFunctionQ}[R_x, x] \ \&\& \ \text{IGtQ}[n, 0]$
6407. $\text{Int}[\text{ArcCosh}[c \cdot x]^n \cdot (R_x) \cdot (d_1 + e_1 \cdot x)^p \cdot (d_2 + e_2 \cdot x)^p, x_Symbol] \rightarrow \text{With}[\{u = \text{ExpandIntegrand}[(d_1 + e_1 \cdot x)^p \cdot (d_2 + e_2 \cdot x)^p \cdot \text{ArcCosh}[c \cdot x]^n, R_x, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}[\{c, d_1, e_1, d_2, e_2\}, x] \ \&\& \ \text{RationalFunctionQ}[R_x, x] \ \&\& \ \text{IGtQ}[n,$

- 0] && EqQ[e1 - c*d1, 0] && EqQ[e2 + c*d2, 0] && IntegerQ[p - 1/2]
6408. $\text{Int}[(\text{ArcCosh}[(c_)(x_)]*(b_)) + (a_)]^{(n_)}*(\text{RFX}_)*((d1_)+(e1_)(x_))^{(p_)}*((d2_)+(e2_)(x_))^{(p_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(d1 + e1*x)^p*(d2 + e2*x)^p, \text{RFX}*(a + b*\text{ArcCosh}[c*x])^n, x], x] /; \text{FreeQ}\{a, b, c, d1, e1, d2, e2\}, x\} \&\& \text{RationalFunctionQ}[\text{RFX}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[e1 - c*d1, 0] \&\& \text{EqQ}[e2 + c*d2, 0] \&\& \text{IntegerQ}[p - 1/2]$
6409. $\text{Int}[(a_)+\text{ArcCosh}[(c_)(x_)]*(b_)]^{(n_)}*(u_), x_Symbol] \rightarrow \text{Unintegrable}[u*(a + b*\text{ArcCosh}[c*x])^n, x] /; \text{FreeQ}\{a, b, c, n\}, x]$
6410. $\text{Int}[(a_)+\text{ArcCosh}[(c_)+(d_)(x_)]*(b_)]^{(n_)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b*\text{ArcCosh}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x]$
6411. $\text{Int}[(a_)+\text{ArcCosh}[(c_)+(d_)(x_)]*(b_)]^{(n_)}*((e_)+(f_)(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d*e - c*f)/d + f*(x/d)]^m*(a + b*\text{ArcCosh}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, n\}, x]$
6412. $\text{Int}[(a_)+\text{ArcCosh}[(c_)+(d_)(x_)]*(b_)]^{(n_)}*((A_)+(B_)(x_)+(C_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(-C/d^2 + (C/d^2)*x^2)^p*(a + b*\text{ArcCosh}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, A, B, C, n, p\}, x\} \&\& \text{EqQ}[B*(1 - c^2) + 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$
6413. $\text{Int}[(a_)+\text{ArcCosh}[(c_)+(d_)(x_)]*(b_)]^{(n_)}*((e_)+(f_)(x_))^{(m_)}*((A_)+(B_)(x_)+(C_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d*e - c*f)/d + f*(x/d)]^m*(-C/d^2 + (C/d^2)*x^2)^p*(a + b*\text{ArcCosh}[x])^n, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, n, p\}, x\} \&\& \text{EqQ}[B*(1 - c^2) + 2*A*c*d, 0] \&\& \text{EqQ}[2*c*C - B*d, 0]$
6414. $\text{Int}[\text{Sqrt}[(a_)+\text{ArcCosh}[1 + (d_)(x_)^2]]*(b_)], x_Symbol] \rightarrow \text{Simp}[2*\text{Sqrt}[a + b*\text{ArcCosh}[1 + d*x^2]]*(\text{Sinh}[(1/2)*\text{ArcCosh}[1 + d*x^2]])^2/(d*x), x] + (\text{Simp}[\text{Sqrt}[b]*\text{Sqrt}[\text{Pi}/2]*(\text{Cosh}[a/(2*b)] + \text{Sinh}[a/(2*b)])]*\text{Sinh}$

- $$\left[\frac{1}{2} \operatorname{ArcCosh}[1 + d*x^2] \right] * \left(\operatorname{Erf} \left[\frac{1}{\sqrt{2*b}} \right] * \sqrt{a + b*\operatorname{ArcCosh}[1 + d*x^2]} \right) / (d*x), x - \operatorname{Simp} \left[\sqrt{b} * \sqrt{\pi/2} * \left(\operatorname{Cosh}[a/(2*b)] - \operatorname{Sinh}[a/(2*b)] \right) * \operatorname{Sinh} \left[\frac{1}{2} \operatorname{ArcCosh}[1 + d*x^2] \right] * \left(\operatorname{Erfi} \left[\frac{1}{\sqrt{2*b}} \right] * \sqrt{a + b*\operatorname{ArcCosh}[1 + d*x^2]} \right) \right] / (d*x), x \right) /; \operatorname{FreeQ}[\{a, b, d\}, x]$$
6415. $\operatorname{Int}[\sqrt{(a_.) + \operatorname{ArcCosh}[-1 + (d_.)*(x_)^2]*(b_.)}, x_Symbol] \rightarrow \operatorname{Simp} \left[2*\sqrt{a + b*\operatorname{ArcCosh}[-1 + d*x^2]} * \left(\operatorname{Cosh} \left[\frac{1}{2} \operatorname{ArcCosh}[-1 + d*x^2] \right] \right)^2 / (d*x), x \right] + \left(-\operatorname{Simp} \left[\sqrt{b} * \sqrt{\pi/2} * \left(\operatorname{Cosh}[a/(2*b)] + \operatorname{Sinh}[a/(2*b)] \right) * \operatorname{Cosh} \left[\frac{1}{2} \operatorname{ArcCosh}[-1 + d*x^2] \right] * \left(\operatorname{Erf} \left[\frac{1}{\sqrt{2*b}} \right] * \sqrt{a + b*\operatorname{ArcCosh}[-1 + d*x^2]} \right) \right] / (d*x), x \right) - \operatorname{Simp} \left[\sqrt{b} * \sqrt{\pi/2} * \left(\operatorname{Cosh}[a/(2*b)] - \operatorname{Sinh}[a/(2*b)] \right) * \operatorname{Cosh} \left[\frac{1}{2} \operatorname{ArcCosh}[-1 + d*x^2] \right] * \left(\operatorname{Erfi} \left[\frac{1}{\sqrt{2*b}} \right] * \sqrt{a + b*\operatorname{ArcCosh}[-1 + d*x^2]} \right) \right] / (d*x), x \right) /; \operatorname{FreeQ}[\{a, b, d\}, x]$
6416. $\operatorname{Int}[\left((a_.) + \operatorname{ArcCosh}[(c_.) + (d_.)*(x_)^2]*(b_.) \right)^{(n_.)}, x_Symbol] \rightarrow \operatorname{Simp} \left[x*(a + b*\operatorname{ArcCosh}[c + d*x^2])^n, x \right] + \left(-\operatorname{Simp} \left[2*b*n*(2*c*d*x^2 + d^2*x^4) * \left((a + b*\operatorname{ArcCosh}[c + d*x^2])^{(n-1)} / (d*x*\sqrt{-1 + c + d*x^2})*\sqrt{1 + c + d*x^2} \right) \right], x \right) + \operatorname{Simp} \left[4*b^2*n*(n-1) \operatorname{Int} \left[(a + b*\operatorname{ArcCosh}[c + d*x^2])^{(n-2)}, x \right], x \right) /; \operatorname{FreeQ}[\{a, b, c, d\}, x] \&\& \operatorname{EqQ}[c^2, 1] \&\& \operatorname{GtQ}[n, 1]$
6417. $\operatorname{Int}[\left((a_.) + \operatorname{ArcCosh}[1 + (d_.)*(x_)^2]*(b_.) \right)^{-1}, x_Symbol] \rightarrow \operatorname{Simp} \left[x*\operatorname{Cosh}[a/(2*b)] * \left(\operatorname{CoshIntegral} \left[\frac{a + b*\operatorname{ArcCosh}[1 + d*x^2]}{2*b} \right] \right) / \left(\sqrt{2} * b * \sqrt{d*x^2} \right) \right], x - \operatorname{Simp} \left[x*\operatorname{Sinh}[a/(2*b)] * \left(\operatorname{SinhIntegral} \left[\frac{a + b*\operatorname{ArcCosh}[1 + d*x^2]}{2*b} \right] \right) / \left(\sqrt{2} * b * \sqrt{d*x^2} \right) \right], x \right) /; \operatorname{FreeQ}[\{a, b, d\}, x]$
6418. $\operatorname{Int}[\left((a_.) + \operatorname{ArcCosh}[-1 + (d_.)*(x_)^2]*(b_.) \right)^{-1}, x_Symbol] \rightarrow \operatorname{Simp} \left[(-x)*\operatorname{Sinh}[a/(2*b)] * \left(\operatorname{CoshIntegral} \left[\frac{a + b*\operatorname{ArcCosh}[-1 + d*x^2]}{2*b} \right] \right) / \left(\sqrt{2} * b * \sqrt{d*x^2} \right) \right], x \right] + \operatorname{Simp} \left[x*\operatorname{Cosh}[a/(2*b)] * \left(\operatorname{SinhIntegral} \left[\frac{a + b*\operatorname{ArcCosh}[-1 + d*x^2]}{2*b} \right] \right) / \left(\sqrt{2} * b * \sqrt{d*x^2} \right) \right], x \right) /; \operatorname{FreeQ}[\{a, b, d\}, x]$
6419. $\operatorname{Int} \left[\frac{1}{\sqrt{(a_.) + \operatorname{ArcCosh}[1 + (d_.)*(x_)^2]*(b_.)}}, x_Symbol \right] \rightarrow \operatorname{Simp} \left[\sqrt{\pi/2} * \left(\operatorname{Cosh}[a/(2*b)] - \operatorname{Sinh}[a/(2*b)] \right) * \operatorname{Sinh} \left[\frac{\operatorname{ArcCosh}[1 + d*x^2]}{2} \right] * \left(\operatorname{Erfi} \left[\frac{\sqrt{a + b*\operatorname{ArcCosh}[1 + d*x^2]}}{\sqrt{2*b}} \right] \right) / \left(\sqrt{b} * d*x \right) \right], x \right] + \operatorname{Simp} \left[\sqrt{\pi/2} * \left(\operatorname{Cosh}[a/(2*b)] + \operatorname{Sinh}[a/(2*b)] \right) * \operatorname{Sinh} \left[\frac{\operatorname{ArcCosh}[1 + d*x^2]}{2} \right] * \left(\operatorname{Erf} \left[\frac{\sqrt{a + b*\operatorname{ArcCosh}[1 + d*x^2]}}{\sqrt{2*b}} \right] \right) / \left(\sqrt{b} * d*x \right) \right], x \right]$

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/; FreeQ[{a, b, d}, x]

6420. Int[1/Sqrt[(a_.) + ArcCosh[-1 + (d_.)*(x_)^2]*(b_.)], x_Symbol] := Sim
p[Sqrt[Pi/2]*(Cosh[a/(2*b)] - Sinh[a/(2*b)])*Cosh[ArcCosh[-1 + d*x^2]/
2]*(Erfi[Sqrt[a + b*ArcCosh[-1 + d*x^2]]/Sqrt[2*b]]/(Sqrt[b]*d*x)), x]
- Simp[Sqrt[Pi/2]*(Cosh[a/(2*b)] + Sinh[a/(2*b)])*Cosh[ArcCosh[-1 + d
x^2]/2](Erf[Sqrt[a + b*ArcCosh[-1 + d*x^2]]/Sqrt[2*b]]/(Sqrt[b]*d*x)
), x] /; FreeQ[{a, b, d}, x]

6421. Int[((a_.) + ArcCosh[1 + (d_.)*(x_)^2]*(b_.))^(3/2), x_Symbol] := Sim
p[(-Sqrt[d*x^2])*(Sqrt[2 + d*x^2]/(b*d*x*Sqrt[a + b*ArcCosh[1 + d*x^2]
])), x] + (-Simp[Sqrt[Pi/2]*(Cosh[a/(2*b)] + Sinh[a/(2*b)])*Sinh[ArcCo
sh[1 + d*x^2]/2]*(Erf[Sqrt[a + b*ArcCosh[1 + d*x^2]]/Sqrt[2*b]]/(b^(3/
2)*d*x)), x] + Simp[Sqrt[Pi/2]*(Cosh[a/(2*b)] - Sinh[a/(2*b)])*Sinh[Ar
cCosh[1 + d*x^2]/2]*(Erfi[Sqrt[a + b*ArcCosh[1 + d*x^2]]/Sqrt[2*b]]/(b
^(3/2)*d*x)), x] /; FreeQ[{a, b, d}, x]

6422. Int[((a_.) + ArcCosh[-1 + (d_.)*(x_)^2]*(b_.))^(3/2), x_Symbol] := Si
mp[(-Sqrt[d*x^2])*(Sqrt[-2 + d*x^2]/(b*d*x*Sqrt[a + b*ArcCosh[-1 + d*x
^2]])), x] + (Simp[Sqrt[Pi/2]*(Cosh[a/(2*b)] + Sinh[a/(2*b)])*Cosh[Arc
Cosh[-1 + d*x^2]/2]*(Erf[Sqrt[a + b*ArcCosh[-1 + d*x^2]]/Sqrt[2*b]]/(b
^(3/2)*d*x)), x] + Simp[Sqrt[Pi/2]*(Cosh[a/(2*b)] - Sinh[a/(2*b)])*Cos
h[ArcCosh[-1 + d*x^2]/2]*(Erfi[Sqrt[a + b*ArcCosh[-1 + d*x^2]]/Sqrt[2*
b]]/(b^(3/2)*d*x)), x] /; FreeQ[{a, b, d}, x]

6423. Int[((a_.) + ArcCosh[1 + (d_.)*(x_)^2]*(b_.))^(2), x_Symbol] := Simp[
(-Sqrt[d*x^2])*(Sqrt[2 + d*x^2]/(2*b*d*x*(a + b*ArcCosh[1 + d*x^2]))),
x] + (-Simp[x*Sinh[a/(2*b)]*(CoshIntegral[(a + b*ArcCosh[1 + d*x^2])]/
(2*b)]/(2*Sqrt[2]*b^2*Sqrt[d*x^2])), x] + Simp[x*Cosh[a/(2*b)]*(SinhIn
tegral[(a + b*ArcCosh[1 + d*x^2])/(2*b)]/(2*Sqrt[2]*b^2*Sqrt[d*x^2])),
x] /; FreeQ[{a, b, d}, x]

6424. Int[((a_.) + ArcCosh[-1 + (d_.)*(x_)^2]*(b_.))^(2), x_Symbol] := Simp
[(-Sqrt[d*x^2])*(Sqrt[-2 + d*x^2]/(2*b*d*x*(a + b*ArcCosh[-1 + d*x^2]
))), x] + (Simp[x*Cosh[a/(2*b)]*(CoshIntegral[(a + b*ArcCosh[-1 + d*x^2
])]/(2*b)]/(2*Sqrt[2]*b^2*Sqrt[d*x^2])), x] - Simp[x*Sinh[a/(2*b)]*(Sin
hIntegral[(a + b*ArcCosh[-1 + d*x^2])/(2*b)]/(2*Sqrt[2]*b^2*Sqrt[d*x^2

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- $$\text{FreeQ}\{a, b, d\}, x]$$
6425.  $\text{Int}[(a_.) + \text{ArcCosh}[c_.) + (d_.)(x_)^2](b_.)^{n_}, x\_Symbol] \rightarrow \text{Simp}[(-x)((a + b \text{ArcCosh}[c + d x^2])^{n+2}/(4 b^2 (n+1)(n+2))), x] + (\text{Simp}[(2 c x^2 + d x^4)((a + b \text{ArcCosh}[c + d x^2])^{n+1}/(2 b (n+1) x \sqrt{-1 + c + d x^2} \sqrt{1 + c + d x^2}))], x] + \text{Simp}[1/(4 b^2 (n+1)(n+2)) \text{Int}[(a + b \text{ArcCosh}[c + d x^2])^{n+2}, x], x)] /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{EqQ}[c^2, 1] \ \&\& \ \text{LtQ}[n, -1] \ \&\& \ \text{NeQ}[n, -2]$
6426.  $\text{Int}[\text{ArcCosh}[a_.)(x_)^{p_}]^{n_}/(x_), x\_Symbol] \rightarrow \text{Simp}[1/p \ \text{Subst}[\text{Int}[x^n \text{Tanh}[x], x], x, \text{ArcCosh}[a x^p]], x] /; \text{FreeQ}\{a, p\}, x \ \&\& \ \text{IGtQ}[n, 0]$
6427.  $\text{Int}[\text{ArcCosh}[c_.)/(a_.) + (b_.)(x_)^{n_}]^{m_}(u_.), x\_Symbol] \rightarrow \text{Int}[u \text{ArcSech}[a/c + b(x^n/c)]^m, x] /; \text{FreeQ}\{a, b, c, n, m\}, x]$
6428.  $\text{Int}[\text{ArcCosh}[\sqrt{1 + (b_.)(x_)^2}]^{n_}/\sqrt{1 + (b_.)(x_)^2}, x\_Symbol] \rightarrow \text{Simp}[\sqrt{-1 + \sqrt{1 + b x^2}}(\sqrt{1 + \sqrt{1 + b x^2}})/(b x) \ \text{Subst}[\text{Int}[\text{ArcCosh}[x]^n/(\sqrt{-1 + x} \sqrt{1 + x}), x], x, \sqrt{1 + b x^2}], x] /; \text{FreeQ}\{b, n\}, x]$
6429.  $\text{Int}[(f_)^{\text{ArcCosh}[a_.) + (b_.)(x_)]^{n_}(c_.), x\_Symbol] \rightarrow \text{Simp}[1/b \ \text{Subst}[\text{Int}[f^{c x^n} \text{Sinh}[x], x], x, \text{ArcCosh}[a + b x]], x] /; \text{FreeQ}\{a, b, c, f\}, x \ \&\& \ \text{IGtQ}[n, 0]$
6430.  $\text{Int}[(f_)^{\text{ArcCosh}[a_.) + (b_.)(x_)]^{n_}(c_.)(x_)^{m_}, x\_Symbol] \rightarrow \text{Simp}[1/b \ \text{Subst}[\text{Int}[(-a/b + \text{Cosh}[x]/b)^m f^{c x^n} \text{Sinh}[x], x], x, \text{ArcCosh}[a + b x]], x] /; \text{FreeQ}\{a, b, c, f\}, x \ \&\& \ \text{IGtQ}[m, 0] \ \&\& \ \text{IGtQ}[n, 0]$
6431.  $\text{Int}[\text{ArcCosh}[u_], x\_Symbol] \rightarrow \text{Simp}[x \text{ArcCosh}[u], x] - \text{Int}[\text{SimplifyIntegrand}[x(D[u, x]/(\sqrt{-1 + u} \sqrt{1 + u}))], x], x] /; \text{InverseFunctionFreeQ}[u, x] \ \&\& \ \text{!FunctionOfExponentialQ}[u, x]$
6432.  $\text{Int}[(a_.) + \text{ArcCosh}[u_](b_.)((c_.) + (d_.)(x_))^{m_}, x\_Symbol] \rightarrow \text{Simp}[(c + d x)^{m+1}((a + b \text{ArcCosh}[u])/(d(m+1))), x] - \text{Simp}[\text{Int}[(a + b \text{ArcCosh}[u])^{m+1}/(d(m+1)), x], x]$

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b/(d*(m + 1)) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D[u, x]/(Sqrt
[-1 + u]*Sqrt[1 + u])), x], x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ
[m, -1] && InverseFunctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m +
1), u, x] && !FunctionOfExponentialQ[u, x]

6433. Int[((a_.) + ArcCosh[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v
, x]}, Simp[(a + b*ArcCosh[u]) w, x] - Simp[b Int[SimplifyIntegran
d[w*(D[u, x]/(Sqrt[-1 + u]*Sqrt[1 + u])), x], x], x] /; InverseFunction
nFreeQ[w, x] /; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] && !M
atchQ[v, ((c_.) + (d_.)*x)^(m_.) /; FreeQ[{c, d, m}, x]]

6434. Int[E^(ArcCosh[u_]*(n_.)), x_Symbol] := Int[(u + Sqrt[-1 + u]*Sqrt[1 +
u])^n, x] /; IntegerQ[n] && PolyQ[u, x]

6435. Int[E^(ArcCosh[u_]*(n_.))*(x_)^(m_.), x_Symbol] := Int[x^m*(u + Sqrt[-
1 + u]*Sqrt[1 + u])^n, x] /; RationalQ[m] && IntegerQ[n] && PolyQ[u, x
]

6436. Int[((a_.) + ArcTanh[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Simp
[x*(a + b*ArcTanh[c*x^n])^p, x] - Simp[b*c*n*p Int[x^n*((a + b*ArcTa
nh[c*x^n])^(p - 1)/(1 - c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, n}, x
] && IGtQ[p, 0] && (EqQ[n, 1] || EqQ[p, 1])

6437. Int[((a_.) + ArcCoth[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Simp
[x*(a + b*ArcCoth[c*x^n])^p, x] - Simp[b*c*n*p Int[x^n*((a + b*ArcCo
th[c*x^n])^(p - 1)/(1 - c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, n}, x
] && IGtQ[p, 0] && (EqQ[n, 1] || EqQ[p, 1])

6438. Int[((a_.) + ArcTanh[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Int[Ex
pandIntegrand[(a + b*(Log[1 + c*x^n]/2) - b*(Log[1 - c*x^n]/2))^p, x],
x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1] && IGtQ[n, 0]

6439. Int[((a_.) + ArcCoth[(c_.)*(x_)^(n_.)]*(b_.))^(p_.), x_Symbol] := Int[Ex
pandIntegrand[(a + b*(Log[1 + 1/(x^n*c)]/2) - b*(Log[1 - 1/(x^n*c)]/2)
)^p, x], x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1] && IGtQ[n, 0]

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6440. $\text{Int}[(a + \text{ArcTanh}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{Int}[(a + b \cdot \text{ArcCoth}[1/(x^n \cdot c)])^p, x] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{ILtQ}[n, 0]$
6441. $\text{Int}[(a + \text{ArcCoth}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{Int}[(a + b \cdot \text{ArcTanh}[1/(x^n \cdot c)])^p, x] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{ILtQ}[n, 0]$
6442. $\text{Int}[(a + \text{ArcTanh}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{With}[k = \text{Denominator}[n], \text{Simp}[k \ \text{Subst}[\text{Int}[x^{(k-1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x^{k \cdot n}])]^p, x], x, x^{1/k}], x]] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{FractionQ}[n]$
6443. $\text{Int}[(a + \text{ArcCoth}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{With}[k = \text{Denominator}[n], \text{Simp}[k \ \text{Subst}[\text{Int}[x^{(k-1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x^{k \cdot n}])]^p, x], x, x^{1/k}], x]] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{FractionQ}[n]$
6444. $\text{Int}[(a + \text{ArcTanh}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcTanh}[c \cdot x^n])^p, x] /; \text{FreeQ}\{a, b, c, n, p, x\}$
6445. $\text{Int}[(a + \text{ArcCoth}[c \cdot x^n] \cdot b)^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcCoth}[c \cdot x^n])^p, x] /; \text{FreeQ}\{a, b, c, n, p, x\}$
6446. $\text{Int}[(a + \text{ArcTanh}[c \cdot x] \cdot b)/x, x_Symbol] \rightarrow \text{Simp}[a \cdot \text{Log}[x], x] + (-\text{Simp}[(b/2) \cdot \text{PolyLog}[2, (-c) \cdot x], x] + \text{Simp}[(b/2) \cdot \text{PolyLog}[2, c \cdot x], x]) /; \text{FreeQ}\{a, b, c, x\}$
6447. $\text{Int}[(a + \text{ArcCoth}[c \cdot x] \cdot b)/x, x_Symbol] \rightarrow \text{Simp}[a \cdot \text{Log}[x], x] + (\text{Simp}[(b/2) \cdot \text{PolyLog}[2, -(c \cdot x)^{-1}], x] - \text{Simp}[(b/2) \cdot \text{PolyLog}[2, 1/(c \cdot x)], x]) /; \text{FreeQ}\{a, b, c, x\}$
6448. $\text{Int}[(a + \text{ArcTanh}[c \cdot x] \cdot b)^p/x, x_Symbol] \rightarrow \text{Simp}[2 \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p \cdot \text{ArcTanh}[1 - 2/(1 - c \cdot x)], x] - \text{Simp}[2 \cdot b \cdot c \cdot p \ \text{Int}[(a + b \cdot \text{ArcTanh}[c \cdot x])^{p-1} \cdot (\text{ArcTanh}[1 - 2/(1 - c \cdot x)])/(1 - c^2 \cdot x^2)], x]$

- 2)), x], x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1]
6449. Int[((a_.) + ArcCoth[(c_.)*(x_)]*(b_.))^(p_)/(x_), x_Symbol] := Simp[2*(a + b*ArcCoth[c*x])^p*ArcCoth[1 - 2/(1 - c*x)], x] - Simp[2*b*c*p Int[(a + b*ArcCoth[c*x])^(p - 1)*(ArcCoth[1 - 2/(1 - c*x)]/(1 - c^2*x^2)), x], x] /; FreeQ[{a, b, c}, x] && IGtQ[p, 1]
6450. Int[((a_.) + ArcTanh[(c_.)*(x_)^(n_)]*(b_.))^(p_)/(x_), x_Symbol] := Simp[1/n Subst[Int[(a + b*ArcTanh[c*x])^p/x, x], x, x^n], x] /; FreeQ[{a, b, c, n}, x] && IGtQ[p, 0]
6451. Int[((a_.) + ArcCoth[(c_.)*(x_)^(n_)]*(b_.))^(p_)/(x_), x_Symbol] := Simp[1/n Subst[Int[(a + b*ArcCoth[c*x])^p/x, x], x, x^n], x] /; FreeQ[{a, b, c, n}, x] && IGtQ[p, 0]
6452. Int[((a_.) + ArcTanh[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)*((a + b*ArcTanh[c*x^n])^p/(m + 1)), x] - Simp[b*c*n*(p/(m + 1)) Int[x^(m + n)*((a + b*ArcTanh[c*x^n])^(p - 1)/(1 - c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, m, n}, x] && IGtQ[p, 0] && (EqQ[p, 1] || (EqQ[n, 1] && IntegerQ[m])) && NeQ[m, -1]
6453. Int[((a_.) + ArcCoth[(c_.)*(x_)^(n_.)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)*((a + b*ArcCoth[c*x^n])^p/(m + 1)), x] - Simp[b*c*n*(p/(m + 1)) Int[x^(m + n)*((a + b*ArcCoth[c*x^n])^(p - 1)/(1 - c^2*x^(2*n))), x], x] /; FreeQ[{a, b, c, m, n}, x] && IGtQ[p, 0] && (EqQ[p, 1] || (EqQ[n, 1] && IntegerQ[m])) && NeQ[m, -1]
6454. Int[((a_.) + ArcTanh[(c_.)*(x_)^(n_)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*ArcTanh[c*x])^p, x], x, x^n], x] /; FreeQ[{a, b, c, m, n}, x] && IGtQ[p, 1] && IntegerQ[Simplify[(m + 1)/n]]
6455. Int[((a_.) + ArcCoth[(c_.)*(x_)^(n_)]*(b_.))^(p_.)*(x_)^(m_.), x_Symbol] := Simp[1/n Subst[Int[x^(Simplify[(m + 1)/n] - 1)*(a + b*ArcCoth[c*x])^p, x], x, x^n], x] /; FreeQ[{a, b, c, m, n}, x] && IGtQ[p, 1] && IntegerQ[Simplify[(m + 1)/n]]

6456. $\text{Int}[(a + \text{ArcTanh}[c(x)^n] \cdot b)^p (x)^m, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[x^m (a + b(\text{Log}[1 + cx^n]/2) - b(\text{Log}[1 - cx^n]/2))^p, x], x] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[m]$
6457. $\text{Int}[(a + \text{ArcCoth}[c(x)^n] \cdot b)^p (x)^m, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[x^m (a + b(\text{Log}[1 + 1/(x^n c)]/2) - b(\text{Log}[1 - 1/(x^n c)]/2))^p, x], x] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{IntegerQ}[m]$
6458. $\text{Int}[(a + \text{ArcTanh}[c(x)^n] \cdot b)^p (x)^m, x_{\text{Symbol}}] \rightarrow \text{With}[k = \text{Denominator}[m], \text{Simp}[k \ \text{Subst}[\text{Int}[x^{(k(m+1)-1)} (a + b \text{ArcTanh}[cx^{kn}])]^p, x], x, x^{1/k}], x]] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{FractionQ}[m]$
6459. $\text{Int}[(a + \text{ArcCoth}[c(x)^n] \cdot b)^p (x)^m, x_{\text{Symbol}}] \rightarrow \text{With}[k = \text{Denominator}[m], \text{Simp}[k \ \text{Subst}[\text{Int}[x^{(k(m+1)-1)} (a + b \text{ArcCoth}[cx^{kn}])]^p, x], x, x^{1/k}], x]] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{IGtQ}[n, 0] \ \&\& \ \text{FractionQ}[m]$
6460. $\text{Int}[(a + \text{ArcTanh}[c(x)^n] \cdot b)^p (x)^m, x_{\text{Symbol}}] \rightarrow \text{Int}[x^m (a + b \text{ArcCoth}[1/(x^n c)])^p, x] /; \text{FreeQ}\{a, b, c, m, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{ILtQ}[n, 0]$
6461. $\text{Int}[(a + \text{ArcCoth}[c(x)^n] \cdot b)^p (x)^m, x_{\text{Symbol}}] \rightarrow \text{Int}[x^m (a + b \text{ArcTanh}[1/(x^n c)])^p, x] /; \text{FreeQ}\{a, b, c, m, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{ILtQ}[n, 0]$
6462. $\text{Int}[(a + \text{ArcTanh}[c(x)^n] \cdot b)^p (x)^m, x_{\text{Symbol}}] \rightarrow \text{With}[k = \text{Denominator}[n], \text{Simp}[k \ \text{Subst}[\text{Int}[x^{(k(m+1)-1)} (a + b \text{ArcTanh}[cx^{kn}])]^p, x], x, x^{1/k}], x]] /; \text{FreeQ}\{a, b, c, m, x\} \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{FractionQ}[n]$
6463. $\text{Int}[(a + \text{ArcCoth}[c(x)^n] \cdot b)^p (x)^m, x_{\text{Symbol}}] \rightarrow \text{With}[k = \text{Denominator}[n], \text{Simp}[k \ \text{Subst}[\text{Int}[x^{(k(m+1)-1)} ($

- $a + b \operatorname{ArcCoth}[c x^{(k n)}]^p, x, x^{(1/k)}, x] /; \text{FreeQ}\{a, b, c, m\}, x \ \&\& \text{IGtQ}[p, 1] \ \&\& \text{FractionQ}[n]$
6464. $\text{Int}[(a + \operatorname{ArcTanh}[c(x)^n] \cdot b) \cdot (d(x))^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d x)^{m+1} \cdot (a + b \operatorname{ArcTanh}[c x^n] / (d(m+1))), x] - \text{Simp}[b c \cdot (n / (d^n \cdot (m+1))) \text{Int}[(d x)^{m+n} / (1 - c^2 x^{2n}), x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x \ \&\& \text{IntegerQ}[n] \ \&\& \text{NeQ}[m, -1]$
6465. $\text{Int}[(a + \operatorname{ArcCoth}[c(x)^n] \cdot b) \cdot (d(x))^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d x)^{m+1} \cdot (a + b \operatorname{ArcCoth}[c x^n] / (d(m+1))), x] - \text{Simp}[b c \cdot (n / (d^n \cdot (m+1))) \text{Int}[(d x)^{m+n} / (1 - c^2 x^{2n}), x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x \ \&\& \text{IntegerQ}[n] \ \&\& \text{NeQ}[m, -1]$
6466. $\text{Int}[(a + \operatorname{ArcTanh}[c(x)^n] \cdot b)^p \cdot (d(x))^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[d^{\text{IntPart}[m]} \cdot ((d x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m \cdot (a + b \operatorname{ArcTanh}[c x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x \ \&\& \text{IGtQ}[p, 0] \ \&\& (\text{EqQ}[p, 1] \ || \ \text{RationalQ}[m, n])$
6467. $\text{Int}[(a + \operatorname{ArcCoth}[c(x)^n] \cdot b)^p \cdot (d(x))^m, x_{\text{Symbol}}] \rightarrow \text{Simp}[d^{\text{IntPart}[m]} \cdot ((d x)^{\text{FracPart}[m]} / x^{\text{FracPart}[m]}) \text{Int}[x^m \cdot (a + b \operatorname{ArcCoth}[c x^n])^p, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x \ \&\& \text{IGtQ}[p, 0] \ \&\& (\text{EqQ}[p, 1] \ || \ \text{RationalQ}[m, n])$
6468. $\text{Int}[(a + \operatorname{ArcTanh}[c(x)^n] \cdot b)^p \cdot (d(x))^m, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d x)^m \cdot (a + b \operatorname{ArcTanh}[c x^n])^p, x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x]$
6469. $\text{Int}[(a + \operatorname{ArcCoth}[c(x)^n] \cdot b)^p \cdot (d(x))^m, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d x)^m \cdot (a + b \operatorname{ArcCoth}[c x^n])^p, x] /; \text{FreeQ}\{a, b, c, d, m, n, p\}, x]$
6470. $\text{Int}[(a + \operatorname{ArcTanh}[c(x)] \cdot b)^p / ((d + e(x))), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-a + b \operatorname{ArcTanh}[c x])^p \cdot (\text{Log}[2 / (1 + e(x/d))] / e), x] + \text{Simp}[b c \cdot (p/e) \text{Int}[(a + b \operatorname{ArcTanh}[c x])^{p-1} \cdot (\text{Log}[2 / (1 + e(x/d))] / (1 - c^2 x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{EqQ}[c^2 d^2 - e^2, 0]$

6471. $\text{Int}[(a + \text{ArcCoth}[c \cdot x]) \cdot (b + \text{ArcCoth}[c \cdot x])^p / ((d + e \cdot x))]$, x_{Symbol}
 $\rightarrow \text{Simp}[(-a + b \cdot \text{ArcCoth}[c \cdot x])^p \cdot (\text{Log}[2/(1 + e \cdot x/d)])/e, x]$
 $+ \text{Simp}[b \cdot c \cdot (p/e) \text{Int}[(a + b \cdot \text{ArcCoth}[c \cdot x])^{p-1} \cdot (\text{Log}[2/(1 + e \cdot x/d))]/(1 - c^2 \cdot x^2)], x]$ /; $\text{FreeQ}\{a, b, c, d, e\}, x\}$ && $\text{IGtQ}[p, 0]$
&& $\text{EqQ}[c^2 \cdot d^2 - e^2, 0]$
6472. $\text{Int}[(a + \text{ArcTanh}[c \cdot x]) \cdot (b + \text{ArcTanh}[c \cdot x]) / ((d + e \cdot x))]$, x_{Symbol}
 $\rightarrow \text{Simp}[(-a + b \cdot \text{ArcTanh}[c \cdot x]) \cdot (\text{Log}[2/(1 + c \cdot x)])/e, x] + (\text{Simp}[(a + b \cdot \text{ArcTanh}[c \cdot x]) \cdot (\text{Log}[2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/e), x] + \text{Simp}[b \cdot (c/e) \text{Int}[\text{Log}[2/(1 + c \cdot x)]/(1 - c^2 \cdot x^2)], x], x] - \text{Simp}[b \cdot (c/e) \text{Int}[\text{Log}[2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/(1 - c^2 \cdot x^2)], x], x])$ /; $\text{FreeQ}\{a, b, c, d, e\}, x\}$ && $\text{NeQ}[c^2 \cdot d^2 - e^2, 0]$
6473. $\text{Int}[(a + \text{ArcCoth}[c \cdot x]) \cdot (b + \text{ArcCoth}[c \cdot x]) / ((d + e \cdot x))]$, x_{Symbol}
 $\rightarrow \text{Simp}[(-a + b \cdot \text{ArcCoth}[c \cdot x]) \cdot (\text{Log}[2/(1 + c \cdot x)])/e, x] + (\text{Simp}[(a + b \cdot \text{ArcCoth}[c \cdot x]) \cdot (\text{Log}[2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/e), x] + \text{Simp}[b \cdot (c/e) \text{Int}[\text{Log}[2/(1 + c \cdot x)]/(1 - c^2 \cdot x^2)], x], x] - \text{Simp}[b \cdot (c/e) \text{Int}[\text{Log}[2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/(1 - c^2 \cdot x^2)], x], x])$ /; $\text{FreeQ}\{a, b, c, d, e\}, x\}$ && $\text{NeQ}[c^2 \cdot d^2 - e^2, 0]$
6474. $\text{Int}[(a + \text{ArcTanh}[c \cdot x]) \cdot (b + \text{ArcTanh}[c \cdot x])^2 / ((d + e \cdot x))]$, x_{Symbol}
 $\rightarrow \text{Simp}[(-a + b \cdot \text{ArcTanh}[c \cdot x])^2 \cdot (\text{Log}[2/(1 + c \cdot x)])/e, x] + (\text{Simp}[(a + b \cdot \text{ArcTanh}[c \cdot x])^2 \cdot (\text{Log}[2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/e), x] + \text{Simp}[b \cdot (a + b \cdot \text{ArcTanh}[c \cdot x]) \cdot (\text{PolyLog}[2, 1 - 2/(1 + c \cdot x)])/e, x] - \text{Simp}[b \cdot (a + b \cdot \text{ArcTanh}[c \cdot x]) \cdot (\text{PolyLog}[2, 1 - 2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/e), x] + \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2/(1 + c \cdot x)])/2e, x] - \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/2e), x])$ /; $\text{FreeQ}\{a, b, c, d, e\}, x\}$ && $\text{NeQ}[c^2 \cdot d^2 - e^2, 0]$
6475. $\text{Int}[(a + \text{ArcCoth}[c \cdot x]) \cdot (b + \text{ArcCoth}[c \cdot x])^2 / ((d + e \cdot x))]$, x_{Symbol}
 $\rightarrow \text{Simp}[(-a + b \cdot \text{ArcCoth}[c \cdot x])^2 \cdot (\text{Log}[2/(1 + c \cdot x)])/e, x] + (\text{Simp}[(a + b \cdot \text{ArcCoth}[c \cdot x])^2 \cdot (\text{Log}[2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/e), x] + \text{Simp}[b \cdot (a + b \cdot \text{ArcCoth}[c \cdot x]) \cdot (\text{PolyLog}[2, 1 - 2/(1 + c \cdot x)])/e, x] - \text{Simp}[b \cdot (a + b \cdot \text{ArcCoth}[c \cdot x]) \cdot (\text{PolyLog}[2, 1 - 2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/e), x] + \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2/(1 + c \cdot x)])/2e, x] - \text{Simp}[b^2 \cdot (\text{PolyLog}[3, 1 - 2 \cdot c \cdot ((d + e \cdot x) / ((c \cdot d + e) \cdot (1 + c \cdot x)))]/2e), x])$ /; $\text{FreeQ}\{a, b, c, d, e\}, x\}$ && $\text{NeQ}[c^2 \cdot d^2 - e^2, 0]$

$2*e)), x]) /; \text{FreeQ}\{a, b, c, d, e\}, x\} \ \&\& \ \text{NeQ}[c^2*d^2 - e^2, 0]$

6476. $\text{Int}[(a + \text{ArcTanh}[c*x])*(b + (d + e*x)/(c*d + e*(1 + c*x)))^3/(d + e*x), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-a + b*\text{ArcTanh}[c*x])^3*(\text{Log}[2/(1 + c*x)]/e), x] + (\text{Simp}[(a + b*\text{ArcTanh}[c*x])^3*(\text{Log}[2*c*((d + e*x)/((c*d + e)*(1 + c*x))])/e), x] + \text{Simp}[3*b*(a + b*\text{ArcTanh}[c*x])^2*(\text{PolyLog}[2, 1 - 2/(1 + c*x)]/(2*e)), x] - \text{Simp}[3*b*(a + b*\text{ArcTanh}[c*x])^2*(\text{PolyLog}[2, 1 - 2*c*((d + e*x)/((c*d + e)*(1 + c*x))])/e), x] + \text{Simp}[3*b^2*(a + b*\text{ArcTanh}[c*x])*(\text{PolyLog}[3, 1 - 2/(1 + c*x)]/(2*e)), x] - \text{Simp}[3*b^2*(a + b*\text{ArcTanh}[c*x])*(\text{PolyLog}[3, 1 - 2*c*((d + e*x)/((c*d + e)*(1 + c*x))])/e), x] + \text{Simp}[3*b^3*(\text{PolyLog}[4, 1 - 2/(1 + c*x)]/(4*e)), x] - \text{Simp}[3*b^3*(\text{PolyLog}[4, 1 - 2*c*((d + e*x)/((c*d + e)*(1 + c*x))])/e), x]) /; \text{FreeQ}\{a, b, c, d, e\}, x\} \ \&\& \ \text{NeQ}[c^2*d^2 - e^2, 0]$

6477. $\text{Int}[(a + \text{ArcCoth}[c*x])*(b + (d + e*x)/(c*d + e*(1 + c*x)))^3/(d + e*x), x_{\text{Symbol}}] \rightarrow \text{Simp}[(-a + b*\text{ArcCoth}[c*x])^3*(\text{Log}[2/(1 + c*x)]/e), x] + (\text{Simp}[(a + b*\text{ArcCoth}[c*x])^3*(\text{Log}[2*c*((d + e*x)/((c*d + e)*(1 + c*x))])/e), x] + \text{Simp}[3*b*(a + b*\text{ArcCoth}[c*x])^2*(\text{PolyLog}[2, 1 - 2/(1 + c*x)]/(2*e)), x] - \text{Simp}[3*b*(a + b*\text{ArcCoth}[c*x])^2*(\text{PolyLog}[2, 1 - 2*c*((d + e*x)/((c*d + e)*(1 + c*x))])/e), x] + \text{Simp}[3*b^2*(a + b*\text{ArcCoth}[c*x])*(\text{PolyLog}[3, 1 - 2/(1 + c*x)]/(2*e)), x] - \text{Simp}[3*b^2*(a + b*\text{ArcCoth}[c*x])*(\text{PolyLog}[3, 1 - 2*c*((d + e*x)/((c*d + e)*(1 + c*x))])/e), x] + \text{Simp}[3*b^3*(\text{PolyLog}[4, 1 - 2/(1 + c*x)]/(4*e)), x] - \text{Simp}[3*b^3*(\text{PolyLog}[4, 1 - 2*c*((d + e*x)/((c*d + e)*(1 + c*x))])/e), x]) /; \text{FreeQ}\{a, b, c, d, e\}, x\} \ \&\& \ \text{NeQ}[c^2*d^2 - e^2, 0]$

6478. $\text{Int}[(a + \text{ArcTanh}[c*x])*(b + (d + e*x)/(c*d + e*(1 + c*x)))^q/(d + e*x), x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e*x)^{q+1}*(a + b*\text{ArcTanh}[c*x])/(e*(q+1)), x] - \text{Simp}[b*(c/(e*(q+1))) \ \text{Int}[(d + e*x)^{q+1}/(1 - c^2*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, q\}, x\} \ \&\& \ \text{NeQ}[q, -1]$

6479. $\text{Int}[(a + \text{ArcCoth}[c*x])*(b + (d + e*x)/(c*d + e*(1 + c*x)))^q/(d + e*x), x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e*x)^{q+1}*(a + b*\text{ArcCoth}[c*x])/(e*(q+1)), x] - \text{Simp}[b*(c/(e*(q+1))) \ \text{Int}[(d + e*x)^{q+1}/(1 - c^2*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, q\}, x\} \ \&\& \ \text{NeQ}[q, -1]$

6480. $\text{Int}[(a + \text{ArcTanh}[c \cdot x]) \cdot (b)^{(p)} \cdot (d + e \cdot x)^{(q)}$, x_{Symbol}] $\rightarrow \text{Simp}[(d + e \cdot x)^{(q+1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p / (e \cdot (q + 1))$, $x]$ $- \text{Simp}[b \cdot c \cdot (p / (e \cdot (q + 1))) \text{Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcTanh}[c \cdot x])^{(p-1)} \cdot (d + e \cdot x)^{(q+1)} / (1 - c^2 \cdot x^2)$, $x]$, $x]$, $x]$ /; $\text{FreeQ}\{a, b, c, d, e, x\}$ && $\text{IGtQ}[p, 1]$ && $\text{IntegerQ}[q]$ && $\text{NeQ}[q, -1]$
6481. $\text{Int}[(a + \text{ArcCoth}[c \cdot x]) \cdot (b)^{(p)} \cdot (d + e \cdot x)^{(q)}$, x_{Symbol}] $\rightarrow \text{Simp}[(d + e \cdot x)^{(q+1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p / (e \cdot (q + 1))$, $x]$ $- \text{Simp}[b \cdot c \cdot (p / (e \cdot (q + 1))) \text{Int}[\text{ExpandIntegrand}[(a + b \cdot \text{ArcCoth}[c \cdot x])^{(p-1)} \cdot (d + e \cdot x)^{(q+1)} / (1 - c^2 \cdot x^2)$, $x]$, $x]$, $x]$ /; $\text{FreeQ}\{a, b, c, d, e, x\}$ && $\text{IGtQ}[p, 1]$ && $\text{IntegerQ}[q]$ && $\text{NeQ}[q, -1]$
6482. $\text{Int}[(a + \text{ArcTanh}[c \cdot x^n]) \cdot (b) / (d + e \cdot x)$, x_{Symbol}] $\rightarrow \text{Simp}[\text{Log}[d + e \cdot x] \cdot (a + b \cdot \text{ArcTanh}[c \cdot x^n]) / e$, $x]$ $- \text{Simp}[b \cdot c \cdot (n/e) \text{Int}[x^{(n-1)} \cdot (\text{Log}[d + e \cdot x] / (1 - c^2 \cdot x^{(2 \cdot n)}))$, $x]$, $x]$ /; $\text{FreeQ}\{a, b, c, d, e, n, x\}$ && $\text{IntegerQ}[n]$
6483. $\text{Int}[(a + \text{ArcCoth}[c \cdot x^n]) \cdot (b) / (d + e \cdot x)$, x_{Symbol}] $\rightarrow \text{Simp}[\text{Log}[d + e \cdot x] \cdot (a + b \cdot \text{ArcCoth}[c \cdot x^n]) / e$, $x]$ $- \text{Simp}[b \cdot c \cdot (n/e) \text{Int}[x^{(n-1)} \cdot (\text{Log}[d + e \cdot x] / (1 - c^2 \cdot x^{(2 \cdot n)}))$, $x]$, $x]$ /; $\text{FreeQ}\{a, b, c, d, e, n, x\}$ && $\text{IntegerQ}[n]$
6484. $\text{Int}[(a + \text{ArcTanh}[c \cdot x^n]) \cdot (b) / (d + e \cdot x)$, x_{Symbol}] $\rightarrow \text{With}\{k = \text{Denominator}[n]\}$, $\text{Simp}[k \text{Subst}[\text{Int}[x^{(k-1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x^{(k \cdot n)}]) / (d + e \cdot x^k)$, $x]$, $x, x^{(1/k)}]$, $x]$ /; $\text{FreeQ}\{a, b, c, d, e, x\}$ && $\text{FractionQ}[n]$
6485. $\text{Int}[(a + \text{ArcCoth}[c \cdot x^n]) \cdot (b) / (d + e \cdot x)$, x_{Symbol}] $\rightarrow \text{With}\{k = \text{Denominator}[n]\}$, $\text{Simp}[k \text{Subst}[\text{Int}[x^{(k-1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x^{(k \cdot n)}]) / (d + e \cdot x^k)$, $x]$, $x, x^{(1/k)}]$, $x]$ /; $\text{FreeQ}\{a, b, c, d, e, x\}$ && $\text{FractionQ}[n]$
6486. $\text{Int}[(a + \text{ArcTanh}[c \cdot x^n]) \cdot (b) \cdot (d + e \cdot x)^{(m)}$, x_{Symbol}] $\rightarrow \text{Simp}[(d + e \cdot x)^{(m+1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x^n]) / (e \cdot (m + 1))$, $x]$ $- \text{Simp}[b \cdot c \cdot (n / (e \cdot (m + 1))) \text{Int}[x^{(n-1)} \cdot (d + e \cdot x)^{(m+1)} / (1 - c^2 \cdot x^{(2 \cdot n)}))$, $x]$, $x]$ /; $\text{FreeQ}\{a, b, c, d, e, m, n, x\}$ && NeQ

[m, -1]

6487. $\text{Int}[\left((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}](b_{\cdot})\right)\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e*x)^{(m + 1)}\left(\frac{a + b*\text{ArcCoth}[c*x^n]}{e*(m + 1)}\right), x] - \text{Simp}[b*c*(n/(e*(m + 1))) \text{Int}[x^{(n - 1)}\left(\frac{(d + e*x)^{(m + 1)}}{(1 - c^2*x^{(2*n)})}\right), x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[m, -1]$

6488. $\text{Int}[\left((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}](b_{\cdot})\right)^{(p_{\cdot})}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTanh}[c*x^n])^p, (d + e*x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{IGtQ}[m, 0]$

6489. $\text{Int}[\left((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}](b_{\cdot})\right)^{(p_{\cdot})}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCoth}[c*x^n])^p, (d + e*x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[p, 1] \&\& \text{IGtQ}[m, 0]$

6490. $\text{Int}[\left((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}](b_{\cdot})\right)^{(p_{\cdot})}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d + e*x)^m*(a + b*\text{ArcTanh}[c*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$

6491. $\text{Int}[\left((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})^{(n_{\cdot})}](b_{\cdot})\right)^{(p_{\cdot})}\left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d + e*x)^m*(a + b*\text{ArcCoth}[c*x^n])^p, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n, p\}, x]$

6492. $\text{Int}[\left(\left(\left(a_{\cdot}\right) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}\left((f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}\right)/\left(\left(d_{\cdot}\right) + (e_{\cdot})(x_{\cdot})\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[f/e \text{Int}[(f*x)^{(m - 1)}(a + b*\text{ArcTanh}[c*x])^p, x], x] - \text{Simp}[d*(f/e) \text{Int}[(f*x)^{(m - 1)}\left(\frac{a + b*\text{ArcTanh}[c*x]}{d + e*x}\right)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d^2 - e^2, 0] \&\& \text{GtQ}[m, 0]$

6493. $\text{Int}[\left(\left(\left(a_{\cdot}\right) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})}\left((f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}\right)/\left(\left(d_{\cdot}\right) + (e_{\cdot})(x_{\cdot})\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[f/e \text{Int}[(f*x)^{(m - 1)}(a + b*\text{ArcCoth}[c*x])^p, x], x] - \text{Simp}[d*(f/e) \text{Int}[(f*x)^{(m - 1)}\left(\frac{a + b*\text{ArcCoth}[c*x]}{d + e*x}\right)^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p$

- , 0] && EqQ[c^2*d^2 - e^2, 0] && GtQ[m, 0]
6494. $\text{Int}[\left((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} / \left((x_{\cdot})((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b \cdot \text{ArcTanh}[c \cdot x])^p \cdot (\text{Log}[2 - 2/(1 + e \cdot (x/d))]/d), x] - \text{Simp}[b \cdot c \cdot (p/d) \text{Int}[(a + b \cdot \text{ArcTanh}[c \cdot x])^{(p-1)} \cdot (\text{Log}[2 - 2/(1 + e \cdot (x/d))]/(1 - c^2 \cdot x^2))], x], x] /;$ FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && EqQ[c^2*d^2 - e^2, 0]
6495. $\text{Int}[\left((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} / \left((x_{\cdot})((d_{\cdot}) + (e_{\cdot})(x_{\cdot}))\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b \cdot \text{ArcCoth}[c \cdot x])^p \cdot (\text{Log}[2 - 2/(1 + e \cdot (x/d))]/d), x] - \text{Simp}[b \cdot c \cdot (p/d) \text{Int}[(a + b \cdot \text{ArcCoth}[c \cdot x])^{(p-1)} \cdot (\text{Log}[2 - 2/(1 + e \cdot (x/d))]/(1 - c^2 \cdot x^2))], x], x] /;$ FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && EqQ[c^2*d^2 - e^2, 0]
6496. $\text{Int}[\left(\left((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} \cdot ((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}\right) / \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[1/d \text{Int}[(f \cdot x)^m \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p], x], x] - \text{Simp}[e/(d \cdot f) \text{Int}[(f \cdot x)^{(m+1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p / (d + e \cdot x)], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && EqQ[c^2*d^2 - e^2, 0] && LtQ[m, -1]
6497. $\text{Int}[\left(\left((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} \cdot ((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})}\right) / \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right), x_{\text{Symbol}}] \rightarrow \text{Simp}[1/d \text{Int}[(f \cdot x)^m \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p], x], x] - \text{Simp}[e/(d \cdot f) \text{Int}[(f \cdot x)^{(m+1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p / (d + e \cdot x)], x], x] /;$ FreeQ[{a, b, c, d, e, f}, x] && IGtQ[p, 0] && EqQ[c^2*d^2 - e^2, 0] && LtQ[m, -1]
6498. $\text{Int}[\left((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right) \cdot ((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})} \cdot \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{With}[\{u = \text{IntHide}[(f \cdot x)^m \cdot (d + e \cdot x)^q, x]\}, \text{Simp}[(a + b \cdot \text{ArcTanh}[c \cdot x])^u, x] - \text{Simp}[b \cdot c \text{Int}[\text{SimplifyIntegrand}[u/(1 - c^2 \cdot x^2), x], x], x]] /;$ FreeQ[{a, b, c, d, e, f, q}, x] && NeQ[q, -1] && IntegerQ[2*m] && ((IGtQ[m, 0] && IGtQ[q, 0]) || (ILtQ[m + q + 1, 0] && LtQ[m*q, 0]))
6499. $\text{Int}[\left((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})](b_{\cdot})\right) \cdot ((f_{\cdot})(x_{\cdot}))^{(m_{\cdot})} \cdot \left((d_{\cdot}) + (e_{\cdot})(x_{\cdot})\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{With}[\{u = \text{IntHide}[(f \cdot x)^m \cdot (d + e \cdot x)^q, x]\}, \text{Simp}[(a + b \cdot \text{ArcCoth}[c \cdot x])^u, x] - \text{Simp}[b \cdot c \text{Int}[\text{SimplifyIntegrand}[u/(1 - c^2 \cdot x^2), x], x], x]] /;$ FreeQ[{a, b, c, d, e, f, q}, x] &&

- $\text{NeQ}[q, -1] \ \&\& \ \text{IntegerQ}[2*m] \ \&\& \ ((\text{IGtQ}[m, 0] \ \&\& \ \text{IGtQ}[q, 0]) \ || \ (\text{ILtQ}[m + q + 1, 0] \ \&\& \ \text{LtQ}[m*q, 0]))$
6500. $\text{Int}[(a + \text{ArcTanh}[c*x])*(b)^{(p)}*((f)*(x))^{(m)}*((d) + (e)*(x))^{(q)}, x_Symbol] \ :> \ \text{With}[\{u = \text{IntHide}[(f*x)^m*(d + e*x)^q, x]\}, \text{Simp}[(a + b*\text{ArcTanh}[c*x])^p \ u, x] - \text{Simp}[b*c*p \ \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTanh}[c*x])^{(p-1)}, u/(1 - c^2*x^2), x], x], x]] \ /;$
 $\text{FreeQ}\{a, b, c, d, e, f, q\}, x \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{EqQ}[c^2*d^2 - e^2, 0] \ \&\& \ \text{IntegersQ}[m, q] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{NeQ}[q, -1] \ \&\& \ \text{ILtQ}[m + q + 1, 0] \ \&\& \ \text{LtQ}[m*q, 0]$
6501. $\text{Int}[(a + \text{ArcCoth}[c*x])*(b)^{(p)}*((f)*(x))^{(m)}*((d) + (e)*(x))^{(q)}, x_Symbol] \ :> \ \text{With}[\{u = \text{IntHide}[(f*x)^m*(d + e*x)^q, x]\}, \text{Simp}[(a + b*\text{ArcCoth}[c*x])^p \ u, x] - \text{Simp}[b*c*p \ \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCoth}[c*x])^{(p-1)}, u/(1 - c^2*x^2), x], x], x]] \ /;$
 $\text{FreeQ}\{a, b, c, d, e, f, q\}, x \ \&\& \ \text{IGtQ}[p, 1] \ \&\& \ \text{EqQ}[c^2*d^2 - e^2, 0] \ \&\& \ \text{IntegersQ}[m, q] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{NeQ}[q, -1] \ \&\& \ \text{ILtQ}[m + q + 1, 0] \ \&\& \ \text{LtQ}[m*q, 0]$
6502. $\text{Int}[(a + \text{ArcTanh}[c*x])*(b)^{(p)}*((f)*(x))^{(m)}*((d) + (e)*(x))^{(q)}, x_Symbol] \ :> \ \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTanh}[c*x])^p, (f*x)^m*(d + e*x)^q, x], x] \ /;$
 $\text{FreeQ}\{a, b, c, d, e, f, m\}, x \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ (\text{GtQ}[q, 0] \ || \ \text{NeQ}[a, 0] \ || \ \text{IntegerQ}[m])$
6503. $\text{Int}[(a + \text{ArcCoth}[c*x])*(b)^{(p)}*((f)*(x))^{(m)}*((d) + (e)*(x))^{(q)}, x_Symbol] \ :> \ \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCoth}[c*x])^p, (f*x)^m*(d + e*x)^q, x], x] \ /;$
 $\text{FreeQ}\{a, b, c, d, e, f, m\}, x \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{IntegerQ}[q] \ \&\& \ (\text{GtQ}[q, 0] \ || \ \text{NeQ}[a, 0] \ || \ \text{IntegerQ}[m])$
6504. $\text{Int}[(a + \text{ArcTanh}[c*x])*(b)*((d) + (e)*(x)^2)^{(q)}, x_Symbol] \ :> \ \text{Simp}[b*((d + e*x^2)^q/(2*c*q*(2*q + 1))), x] + (\text{Simp}[x*(d + e*x^2)^q*((a + b*\text{ArcTanh}[c*x])/(2*q + 1)), x] + \text{Simp}[2*d*(q/(2*q + 1)) \ \text{Int}[(d + e*x^2)^{(q-1)}*(a + b*\text{ArcTanh}[c*x]), x], x]) \ /;$
 $\text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{GtQ}[q, 0]$

6505. $\text{Int}[\left((a_{_}) + \text{ArcCoth}[(c_{_}) \cdot (x_{_})] \cdot (b_{_})\right) \cdot \left((d_{_}) + (e_{_}) \cdot (x_{_})^2\right)^{(q_{_})}, x_{_}\text{Symbol}] \rightarrow \text{Simp}[b \cdot \left((d + e \cdot x^2)^q / (2 \cdot c \cdot q \cdot (2 \cdot q + 1))\right), x] + \left(\text{Simp}[x \cdot (d + e \cdot x^2)^q \cdot \left((a + b \cdot \text{ArcCoth}[c \cdot x]) / (2 \cdot q + 1)\right), x] + \text{Simp}[2 \cdot d \cdot (q / (2 \cdot q + 1)) \text{Int}[(d + e \cdot x^2)^{(q-1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x]), x], x]\right) / ; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[q, 0]$
6506. $\text{Int}[\left((a_{_}) + \text{ArcTanh}[(c_{_}) \cdot (x_{_})] \cdot (b_{_})\right)^{(p_{_})} \cdot \left((d_{_}) + (e_{_}) \cdot (x_{_})^2\right)^{(q_{_})}, x_{_}\text{Symbol}] \rightarrow \text{Simp}[b \cdot p \cdot (d + e \cdot x^2)^q \cdot \left((a + b \cdot \text{ArcTanh}[c \cdot x])^{(p-1)} / (2 \cdot c \cdot q \cdot (2 \cdot q + 1))\right), x] + \left(\text{Simp}[x \cdot (d + e \cdot x^2)^q \cdot \left((a + b \cdot \text{ArcTanh}[c \cdot x])^p / (2 \cdot q + 1)\right), x] + \text{Simp}[2 \cdot d \cdot (q / (2 \cdot q + 1)) \text{Int}[(d + e \cdot x^2)^{(q-1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p, x], x] - \text{Simp}[b^2 \cdot d \cdot p \cdot \left((p-1) / (2 \cdot q \cdot (2 \cdot q + 1))\right) \text{Int}[(d + e \cdot x^2)^{(q-1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^{(p-2)}, x], x]\right) / ; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{GtQ}[p, 1]$
6507. $\text{Int}[\left((a_{_}) + \text{ArcCoth}[(c_{_}) \cdot (x_{_})] \cdot (b_{_})\right)^{(p_{_})} \cdot \left((d_{_}) + (e_{_}) \cdot (x_{_})^2\right)^{(q_{_})}, x_{_}\text{Symbol}] \rightarrow \text{Simp}[b \cdot p \cdot (d + e \cdot x^2)^q \cdot \left((a + b \cdot \text{ArcCoth}[c \cdot x])^{(p-1)} / (2 \cdot c \cdot q \cdot (2 \cdot q + 1))\right), x] + \left(\text{Simp}[x \cdot (d + e \cdot x^2)^q \cdot \left((a + b \cdot \text{ArcCoth}[c \cdot x])^p / (2 \cdot q + 1)\right), x] + \text{Simp}[2 \cdot d \cdot (q / (2 \cdot q + 1)) \text{Int}[(d + e \cdot x^2)^{(q-1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p, x], x] - \text{Simp}[b^2 \cdot d \cdot p \cdot \left((p-1) / (2 \cdot q \cdot (2 \cdot q + 1))\right) \text{Int}[(d + e \cdot x^2)^{(q-1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^{(p-2)}, x], x]\right) / ; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{GtQ}[p, 1]$
6508. $\text{Int}[1 / \left(\left((a_{_}) + \text{ArcTanh}[(c_{_}) \cdot (x_{_})] \cdot (b_{_})\right) \cdot \left((d_{_}) + (e_{_}) \cdot (x_{_})^2\right)\right), x_{_}\text{Symbol}] \rightarrow \text{Simp}[\text{Log}[\text{RemoveContent}[a + b \cdot \text{ArcTanh}[c \cdot x], x]] / (b \cdot c \cdot d), x] / ; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0]$
6509. $\text{Int}[1 / \left(\left((a_{_}) + \text{ArcCoth}[(c_{_}) \cdot (x_{_})] \cdot (b_{_})\right) \cdot \left((d_{_}) + (e_{_}) \cdot (x_{_})^2\right)\right), x_{_}\text{Symbol}] \rightarrow \text{Simp}[\text{Log}[\text{RemoveContent}[a + b \cdot \text{ArcCoth}[c \cdot x], x]] / (b \cdot c \cdot d), x] / ; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0]$
6510. $\text{Int}[\left((a_{_}) + \text{ArcTanh}[(c_{_}) \cdot (x_{_})] \cdot (b_{_})\right)^{(p_{_})} / \left((d_{_}) + (e_{_}) \cdot (x_{_})^2\right), x_{_}\text{Symbol}] \rightarrow \text{Simp}[\left((a + b \cdot \text{ArcTanh}[c \cdot x])^{(p+1)} / (b \cdot c \cdot d \cdot (p+1))\right), x] / ; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{NeQ}[p, -1]$
6511. $\text{Int}[\left((a_{_}) + \text{ArcCoth}[(c_{_}) \cdot (x_{_})] \cdot (b_{_})\right)^{(p_{_})} / \left((d_{_}) + (e_{_}) \cdot (x_{_})^2\right), x_{_}\text{Symbol}] \rightarrow \text{Simp}[\left((a + b \cdot \text{ArcCoth}[c \cdot x])^{(p+1)} / (b \cdot c \cdot d \cdot (p+1))\right), x] / ; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{NeQ}[p, -1]$

```
reeQ[{a, b, c, d, e, p}, x] && EqQ[c^2*d + e, 0] && NeQ[p, -1]
```

```
6512. Int[((a_.) + ArcTanh[(c_.)*(x_)]*(b_.))/Sqrt[(d_) + (e_.)*(x_)^2], x_Symbol]
:> Simp[-2*(a + b*ArcTanh[c*x])*(ArcTan[Sqrt[1 - c*x]/Sqrt[1 + c*x]]/(c*Sqrt[d])), x]
+ (-Simp[I*b*(PolyLog[2, (-I)*(Sqrt[1 - c*x]/Sqrt[1 + c*x])])/(c*Sqrt[d])), x]
+ Simp[I*b*(PolyLog[2, I*(Sqrt[1 - c*x]/Sqrt[1 + c*x])])/(c*Sqrt[d])), x]) /;
FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && GtQ[d, 0]
```

```
6513. Int[((a_.) + ArcCoth[(c_.)*(x_)]*(b_.))/Sqrt[(d_) + (e_.)*(x_)^2], x_Symbol]
:> Simp[-2*(a + b*ArcCoth[c*x])*(ArcTan[Sqrt[1 - c*x]/Sqrt[1 + c*x]]/(c*Sqrt[d])), x]
+ (-Simp[I*b*(PolyLog[2, (-I)*(Sqrt[1 - c*x]/Sqrt[1 + c*x])])/(c*Sqrt[d])), x]
+ Simp[I*b*(PolyLog[2, I*(Sqrt[1 - c*x]/Sqrt[1 + c*x])])/(c*Sqrt[d])), x]) /;
FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && GtQ[d, 0]
```

```
6514. Int[((a_.) + ArcTanh[(c_.)*(x_)]*(b_.))^(p_.)/Sqrt[(d_) + (e_.)*(x_)^2], x_Symbol]
:> Simp[1/(c*Sqrt[d]) Subst[Int[(a + b*x)^p*Sech[x], x], x, ArcTanh[c*x]], x] /;
FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && GtQ[d, 0]
```

```
6515. Int[((a_.) + ArcCoth[(c_.)*(x_)]*(b_.))^(p_.)/Sqrt[(d_) + (e_.)*(x_)^2], x_Symbol]
:> Simp[(-x)*(Sqrt[1 - 1/(c^2*x^2)]/Sqrt[d + e*x^2]) Subst[Int[(a + b*x)^p*Csch[x], x], x, ArcCoth[c*x]], x] /;
FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && GtQ[d, 0]
```

```
6516. Int[((a_.) + ArcTanh[(c_.)*(x_)]*(b_.))^(p_.)/Sqrt[(d_) + (e_.)*(x_)^2], x_Symbol]
:> Simp[Sqrt[1 - c^2*x^2]/Sqrt[d + e*x^2] Int[(a + b*ArcTanh[c*x])^p/Sqrt[1 - c^2*x^2], x], x] /;
FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && !GtQ[d, 0]
```

```
6517. Int[((a_.) + ArcCoth[(c_.)*(x_)]*(b_.))^(p_.)/Sqrt[(d_) + (e_.)*(x_)^2], x_Symbol]
:> Simp[Sqrt[1 - c^2*x^2]/Sqrt[d + e*x^2] Int[(a + b*ArcCoth[c*x])^p/Sqrt[1 - c^2*x^2], x], x] /;
FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && !GtQ[d, 0]
```

6518. $\text{Int}[\frac{(a + \text{ArcTanh}[c \cdot x] \cdot b)^p}{(d + e \cdot x^2)^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p / (2 \cdot d \cdot (d + e \cdot x^2))], x] + (\text{Simp}[(a + b \cdot \text{ArcTanh}[c \cdot x])^{p+1} / (2 \cdot b \cdot c \cdot d^2 \cdot (p+1)), x] - \text{Simp}[b \cdot c \cdot (p/2) \text{Int}[x \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^{p-1} / (d + e \cdot x^2)^2], x]) /;$
 $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[p, 0]$
6519. $\text{Int}[\frac{(a + \text{ArcCoth}[c \cdot x] \cdot b)^p}{(d + e \cdot x^2)^2}, x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p / (2 \cdot d \cdot (d + e \cdot x^2))], x] + (\text{Simp}[(a + b \cdot \text{ArcCoth}[c \cdot x])^{p+1} / (2 \cdot b \cdot c \cdot d^2 \cdot (p+1)), x] - \text{Simp}[b \cdot c \cdot (p/2) \text{Int}[x \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^{p-1} / (d + e \cdot x^2)^2], x]) /;$
 $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[p, 0]$
6520. $\text{Int}[\frac{(a + \text{ArcTanh}[c \cdot x] \cdot b)}{(d + e \cdot x^2)^{3/2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-b / (c \cdot d \cdot \text{Sqrt}[d + e \cdot x^2]), x] + \text{Simp}[x \cdot (a + b \cdot \text{ArcTanh}[c \cdot x]) / (d \cdot \text{Sqrt}[d + e \cdot x^2]), x] /;$
 $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0]$
6521. $\text{Int}[\frac{(a + \text{ArcCoth}[c \cdot x] \cdot b)}{(d + e \cdot x^2)^{3/2}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[-b / (c \cdot d \cdot \text{Sqrt}[d + e \cdot x^2]), x] + \text{Simp}[x \cdot (a + b \cdot \text{ArcCoth}[c \cdot x]) / (d \cdot \text{Sqrt}[d + e \cdot x^2]), x] /;$
 $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0]$
6522. $\text{Int}[\frac{(a + \text{ArcTanh}[c \cdot x] \cdot b) \cdot (d + e \cdot x^2)^q}{(d + e \cdot x^2)^{q+1}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b) \cdot (d + e \cdot x^2)^{q+1} / (4 \cdot c \cdot d \cdot (q+1)^2), x] + (-\text{Simp}[x \cdot (d + e \cdot x^2)^{q+1} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x]) / (2 \cdot d \cdot (q+1)), x] + \text{Simp}[(2 \cdot q + 3) / (2 \cdot d \cdot (q+1)) \text{Int}[(d + e \cdot x^2)^{q+1} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x]), x], x]) /;$
 $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{NeQ}[q, -3/2]$
6523. $\text{Int}[\frac{(a + \text{ArcCoth}[c \cdot x] \cdot b) \cdot (d + e \cdot x^2)^q}{(d + e \cdot x^2)^{q+1}}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b) \cdot (d + e \cdot x^2)^{q+1} / (4 \cdot c \cdot d \cdot (q+1)^2), x] + (-\text{Simp}[x \cdot (d + e \cdot x^2)^{q+1} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x]) / (2 \cdot d \cdot (q+1)), x] + \text{Simp}[(2 \cdot q + 3) / (2 \cdot d \cdot (q+1)) \text{Int}[(d + e \cdot x^2)^{q+1} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x]), x], x]) /;$
 $\text{FreeQ}\{a, b, c, d, e, x\} \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{NeQ}[q, -3/2]$

6524. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.)]^{(p_)} / ((d_ + (e_.)*(x_)^2)^{(3/2)}, x_Symbol] \rightarrow \text{Simp}[(-b)*p*((a + b*\text{ArcTanh}[c*x])^{(p-1)} / (c*d*\text{Sqrt}[d + e*x^2]))], x] + (\text{Simp}[x*((a + b*\text{ArcTanh}[c*x])^p / (d*\text{Sqrt}[d + e*x^2]))], x] + \text{Simp}[b^2*p*(p-1) \text{Int}[(a + b*\text{ArcTanh}[c*x])^{(p-2)} / (d + e*x^2)^{(3/2)}, x], x]) /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{GtQ}[p, 1]$
6525. $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.)]^{(p_)} / ((d_ + (e_.)*(x_)^2)^{(3/2)}, x_Symbol] \rightarrow \text{Simp}[(-b)*p*((a + b*\text{ArcCoth}[c*x])^{(p-1)} / (c*d*\text{Sqrt}[d + e*x^2]))], x] + (\text{Simp}[x*((a + b*\text{ArcCoth}[c*x])^p / (d*\text{Sqrt}[d + e*x^2]))], x] + \text{Simp}[b^2*p*(p-1) \text{Int}[(a + b*\text{ArcCoth}[c*x])^{(p-2)} / (d + e*x^2)^{(3/2)}, x], x]) /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{GtQ}[p, 1]$
6526. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.)]^{(p_)} * ((d_ + (e_.)*(x_)^2)^{(q_)}), x_Symbol] \rightarrow \text{Simp}[(-b)*p*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcTanh}[c*x])^{(p-1)} / (4*c*d*(q+1)^2)), x] + (-\text{Simp}[x*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcTanh}[c*x])^p / (2*d*(q+1))), x] + \text{Simp}[(2*q + 3) / (2*d*(q+1)) \text{Int}[(d + e*x^2)^{(q+1)}*(a + b*\text{ArcTanh}[c*x])^p, x], x] + \text{Simp}[b^2*p*((p-1) / (4*(q+1)^2)) \text{Int}[(d + e*x^2)^q*(a + b*\text{ArcTanh}[c*x])^{(p-2)}, x], x]) /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{GtQ}[p, 1] \ \&\& \ \text{NeQ}[q, -3/2]$
6527. $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.)]^{(p_)} * ((d_ + (e_.)*(x_)^2)^{(q_)}), x_Symbol] \rightarrow \text{Simp}[(-b)*p*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcCoth}[c*x])^{(p-1)} / (4*c*d*(q+1)^2)), x] + (-\text{Simp}[x*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcCoth}[c*x])^p / (2*d*(q+1))), x] + \text{Simp}[(2*q + 3) / (2*d*(q+1)) \text{Int}[(d + e*x^2)^{(q+1)}*(a + b*\text{ArcCoth}[c*x])^p, x], x] + \text{Simp}[b^2*p*((p-1) / (4*(q+1)^2)) \text{Int}[(d + e*x^2)^q*(a + b*\text{ArcCoth}[c*x])^{(p-2)}, x], x]) /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{GtQ}[p, 1] \ \&\& \ \text{NeQ}[q, -3/2]$
6528. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.)]^{(p_)} * ((d_ + (e_.)*(x_)^2)^{(q_)}), x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(q+1)}*((a + b*\text{ArcTanh}[c*x])^{(p+1)} / (b*c*d*(p+1))), x] + \text{Simp}[2*c*((q+1) / (b*(p+1))) \text{Int}[x*(d + e*x^2)^q*(a + b*\text{ArcTanh}[c*x])^{(p+1)}, x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2*d + e, 0] \ \&\& \ \text{LtQ}[q, -1] \ \&\& \ \text{LtQ}[p, -1]$

6529. $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)(x_.)](b_.)]^{(p_.)}((d_.) + (e_.)(x_.)^2)^{(q_.)}$, x_Symbol] \rightarrow $\text{Simp}[(d + e x^2)^{(q + 1)}((a + b \text{ArcCoth}[c x])^{(p + 1)}) / (b c d (p + 1))]$, x] + $\text{Simp}[2 c ((q + 1) / (b (p + 1))) \text{Int}[x (d + e x^2)^q (a + b \text{ArcCoth}[c x])^{(p + 1)}, x], x]$ /; $\text{FreeQ}\{a, b, c, d, e\}, x$] && $\text{EqQ}[c^2 d + e, 0]$ && $\text{LtQ}[q, -1]$ && $\text{LtQ}[p, -1]$
6530. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)(x_.)](b_.)]^{(p_.)}((d_.) + (e_.)(x_.)^2)^{(q_.)}$, x_Symbol] \rightarrow $\text{Simp}[d^q / c \text{Subst}[\text{Int}[(a + b x)^p / \text{Cosh}[x]^{2(q + 1)}], x], x, \text{ArcTanh}[c x]]$, x] /; $\text{FreeQ}\{a, b, c, d, e, p\}, x$] && $\text{EqQ}[c^2 d + e, 0]$ && $\text{ILtQ}[2(q + 1), 0]$ && $(\text{IntegerQ}[q] \parallel \text{GtQ}[d, 0])$
6531. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)(x_.)](b_.)]^{(p_.)}((d_.) + (e_.)(x_.)^2)^{(q_.)}$, x_Symbol] \rightarrow $\text{Simp}[d^{(q + 1/2)} (\text{Sqrt}[1 - c^2 x^2] / \text{Sqrt}[d + e x^2]) \text{Int}[(1 - c^2 x^2)^q (a + b \text{ArcTanh}[c x])^p, x], x]$ /; $\text{FreeQ}\{a, b, c, d, e, p\}, x$] && $\text{EqQ}[c^2 d + e, 0]$ && $\text{ILtQ}[2(q + 1), 0]$ && $!(\text{IntegerQ}[q] \parallel \text{GtQ}[d, 0])$
6532. $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)(x_.)](b_.)]^{(p_.)}((d_.) + (e_.)(x_.)^2)^{(q_.)}$, x_Symbol] \rightarrow $\text{Simp}[(-d)^q / c \text{Subst}[\text{Int}[(a + b x)^p / \text{Sinh}[x]^{2(q + 1)}], x], x, \text{ArcCoth}[c x]]$, x] /; $\text{FreeQ}\{a, b, c, d, e, p\}, x$] && $\text{EqQ}[c^2 d + e, 0]$ && $\text{ILtQ}[2(q + 1), 0]$ && $\text{IntegerQ}[q]$
6533. $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)(x_.)](b_.)]^{(p_.)}((d_.) + (e_.)(x_.)^2)^{(q_.)}$, x_Symbol] \rightarrow $\text{Simp}[(-d)^{(q + 1/2)} x (\text{Sqrt}[(c^2 x^2 - 1) / (c^2 x^2)]) / \text{Sqrt}[d + e x^2] \text{Subst}[\text{Int}[(a + b x)^p / \text{Sinh}[x]^{2(q + 1)}], x], x, \text{ArcCoth}[c x]]$, x] /; $\text{FreeQ}\{a, b, c, d, e, p\}, x$] && $\text{EqQ}[c^2 d + e, 0]$ && $\text{ILtQ}[2(q + 1), 0]$ && $!\text{IntegerQ}[q]$
6534. $\text{Int}[\text{ArcTanh}[(c_.)(x_.)] / ((d_.) + (e_.)(x_.)^2), x_Symbol]$ \rightarrow $\text{Simp}[1/2 \text{Int}[\text{Log}[1 + c x] / (d + e x^2), x], x] - \text{Simp}[1/2 \text{Int}[\text{Log}[1 - c x] / (d + e x^2), x], x]$ /; $\text{FreeQ}\{c, d, e\}, x$
6535. $\text{Int}[\text{ArcCoth}[(c_.)(x_.)] / ((d_.) + (e_.)(x_.)^2), x_Symbol]$ \rightarrow $\text{Simp}[1/2 \text{Int}[\text{Log}[1 + 1/(c x)] / (d + e x^2), x], x] - \text{Simp}[1/2 \text{Int}[\text{Log}[1 - 1/(c x)] / (d + e x^2), x], x]$ /; $\text{FreeQ}\{c, d, e\}, x$

6536. $\text{Int}[(\text{ArcTanh}[(c_)(x_)]*(b_)) + (a_)]/((d_)+(e_)(x_)^2), x_Symbol] \rightarrow \text{Simp}[a \text{ Int}[1/(d + e*x^2), x], x] + \text{Simp}[b \text{ Int}[\text{ArcTanh}[c*x]/(d + e*x^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x]$
6537. $\text{Int}[(\text{ArcCoth}[(c_)(x_)]*(b_)) + (a_)]/((d_)+(e_)(x_)^2), x_Symbol] \rightarrow \text{Simp}[a \text{ Int}[1/(d + e*x^2), x], x] + \text{Simp}[b \text{ Int}[\text{ArcCoth}[c*x]/(d + e*x^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x]$
6538. $\text{Int}[(a_)+\text{ArcTanh}[(c_)(x_)]*(b_)]*((d_)+(e_)(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(d + e*x^2)^q, x]\}, \text{Simp}[(a + b*\text{ArcTanh}[c*x]) u, x] - \text{Simp}[b*c \text{ Int}[\text{SimplifyIntegrand}[u/(1 - c^2*x^2), x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& (\text{IntegerQ}[q] \parallel \text{ILtQ}[q + 1/2, 0])$
6539. $\text{Int}[(a_)+\text{ArcCoth}[(c_)(x_)]*(b_)]*((d_)+(e_)(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[(d + e*x^2)^q, x]\}, \text{Simp}[(a + b*\text{ArcCoth}[c*x]) u, x] - \text{Simp}[b*c \text{ Int}[\text{SimplifyIntegrand}[u/(1 - c^2*x^2), x], x]] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& (\text{IntegerQ}[q] \parallel \text{ILtQ}[q + 1/2, 0])$
6540. $\text{Int}[(a_)+\text{ArcTanh}[(c_)(x_)]*(b_)]^{(p_)}*((d_)+(e_)(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTanh}[c*x])^p, (d + e*x^2)^q, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IGtQ}[p, 0]$
6541. $\text{Int}[(a_)+\text{ArcCoth}[(c_)(x_)]*(b_)]^{(p_)}*((d_)+(e_)(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCoth}[c*x])^p, (d + e*x^2)^q, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IGtQ}[p, 0]$
6542. $\text{Int}[(a_)+\text{ArcTanh}[(c_)(x_)]*(b_)]^{(p_)}*((f_)(x_))^{(m_)]/((d_)+(e_)(x_)^2), x_Symbol] \rightarrow \text{Simp}[f^2/e \text{ Int}[(f*x)^{(m-2)}*(a + b*\text{ArcTanh}[c*x])^p, x], x] - \text{Simp}[d*(f^2/e) \text{ Int}[(f*x)^{(m-2)}*((a + b*\text{ArcTanh}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{GtQ}[m, 1]$

6543. $\text{Int}[(((a_.) + \text{ArcCoth}[(c_.)(x_)])(b_.))^{(p_.)}((f_.)(x_))^{(m_.)} / ((d_.) + (e_.)(x_)^2), x_Symbol] \rightarrow \text{Simp}[f^2/e \text{ Int}[(f*x)^{(m-2)}(a + b*\text{ArcCoth}[c*x])^p, x], x] - \text{Simp}[d*(f^2/e \text{ Int}[(f*x)^{(m-2)}((a + b*\text{ArcCoth}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{GtQ}[m, 1]$
6544. $\text{Int}[(((a_.) + \text{ArcTanh}[(c_.)(x_)])(b_.))^{(p_.)}((f_.)(x_))^{(m_.)} / ((d_.) + (e_.)(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/d \text{ Int}[(f*x)^m(a + b*\text{ArcTanh}[c*x])^p, x], x] - \text{Simp}[e/(d*f^2) \text{ Int}[(f*x)^{(m+2)}((a + b*\text{ArcTanh}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -1]$
6545. $\text{Int}[(((a_.) + \text{ArcCoth}[(c_.)(x_)])(b_.))^{(p_.)}((f_.)(x_))^{(m_.)} / ((d_.) + (e_.)(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/d \text{ Int}[(f*x)^m(a + b*\text{ArcCoth}[c*x])^p, x], x] - \text{Simp}[e/(d*f^2) \text{ Int}[(f*x)^{(m+2)}((a + b*\text{ArcCoth}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -1]$
6546. $\text{Int}[(((a_.) + \text{ArcTanh}[(c_.)(x_)])(b_.))^{(p_.)}(x_) / ((d_.) + (e_.)(x_)^2), x_Symbol] \rightarrow \text{Simp}[(a + b*\text{ArcTanh}[c*x])^{(p+1)} / (b*e*(p+1)), x] + \text{Simp}[1/(c*d) \text{ Int}[(a + b*\text{ArcTanh}[c*x])^p / (1 - c*x), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[p, 0]$
6547. $\text{Int}[(((a_.) + \text{ArcCoth}[(c_.)(x_)])(b_.))^{(p_.)}(x_) / ((d_.) + (e_.)(x_)^2), x_Symbol] \rightarrow \text{Simp}[(a + b*\text{ArcCoth}[c*x])^{(p+1)} / (b*e*(p+1)), x] + \text{Simp}[1/(c*d) \text{ Int}[(a + b*\text{ArcCoth}[c*x])^p / (1 - c*x), x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[p, 0]$
6548. $\text{Int}[(((a_.) + \text{ArcTanh}[(c_.)(x_)])(b_.))^{(p_.)}(x_) / ((d_.) + (e_.)(x_)^2), x_Symbol] \rightarrow \text{Simp}[x*((a + b*\text{ArcTanh}[c*x])^{(p+1)} / (b*c*d*(p+1))), x] - \text{Simp}[1/(b*c*d*(p+1)) \text{ Int}[(a + b*\text{ArcTanh}[c*x])^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& !\text{IGtQ}[p, 0] \&\& \text{NeQ}[p, -1]$

6549. $\text{Int}[\frac{((a_{.}) + \text{ArcCoth}[(c_{.})*(x_{.})]*(b_{.}))^{(p_{.})}*(x_{.})}{((d_{.}) + (e_{.})*(x_{.})^2)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-x)*(a + b*\text{ArcCoth}[c*x])^{(p + 1)}/(b*c*d*(p + 1))], x] - \text{Simp}[1/(b*c*d*(p + 1)) \text{Int}[(a + b*\text{ArcCoth}[c*x])^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& !\text{IGtQ}[p, 0] \&\& \text{NeQ}[p, -1]$
6550. $\text{Int}[\frac{((a_{.}) + \text{ArcTanh}[(c_{.})*(x_{.})]*(b_{.}))^{(p_{.})}}{(x_{.})*((d_{.}) + (e_{.})*(x_{.})^2)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b*\text{ArcTanh}[c*x])^{(p + 1)}/(b*d*(p + 1)), x] + \text{Simp}[1/d \text{Int}[(a + b*\text{ArcTanh}[c*x])^p/(x*(1 + c*x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0]$
6551. $\text{Int}[\frac{((a_{.}) + \text{ArcCoth}[(c_{.})*(x_{.})]*(b_{.}))^{(p_{.})}}{(x_{.})*((d_{.}) + (e_{.})*(x_{.})^2)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(a + b*\text{ArcCoth}[c*x])^{(p + 1)}/(b*d*(p + 1)), x] + \text{Simp}[1/d \text{Int}[(a + b*\text{ArcCoth}[c*x])^p/(x*(1 + c*x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0]$
6552. $\text{Int}[\frac{((a_{.}) + \text{ArcTanh}[(c_{.})*(x_{.})]*(b_{.}))^{(p_{.})}*((f_{.})*(x_{.}))^{(m_{.})}}{(d_{.}) + (e_{.})*(x_{.})^2)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(f*x)^m*((a + b*\text{ArcTanh}[c*x])^{(p + 1)}/(b*c*d*(p + 1))), x] - \text{Simp}[f*(m/(b*c*d*(p + 1))) \text{Int}[(f*x)^{(m - 1)}*(a + b*\text{ArcTanh}[c*x])^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[p, -1]$
6553. $\text{Int}[\frac{((a_{.}) + \text{ArcCoth}[(c_{.})*(x_{.})]*(b_{.}))^{(p_{.})}*((f_{.})*(x_{.}))^{(m_{.})}}{(d_{.}) + (e_{.})*(x_{.})^2)}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(f*x)^m*((a + b*\text{ArcCoth}[c*x])^{(p + 1)}/(b*c*d*(p + 1))), x] - \text{Simp}[f*(m/(b*c*d*(p + 1))) \text{Int}[(f*x)^{(m - 1)}*(a + b*\text{ArcCoth}[c*x])^{(p + 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[p, -1]$
6554. $\text{Int}[\frac{((a_{.}) + \text{ArcTanh}[(c_{.})*(x_{.})]*(b_{.}))*(x_{.})^{(m_{.})}}{(d_{.}) + (e_{.})*(x_{.})^2)}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[a + b*\text{ArcTanh}[c*x], x^m/(d + e*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, x\} \&\& \text{IntegerQ}[m] \&\& !(\text{EqQ}[m, 1] \&\& \text{NeQ}[a, 0])$
6555. $\text{Int}[\frac{((a_{.}) + \text{ArcCoth}[(c_{.})*(x_{.})]*(b_{.}))*(x_{.})^{(m_{.})}}{(d_{.}) + (e_{.})*(x_{.})^2)}, x_{\text{Symbol}}] \rightarrow \text{Int}[\text{ExpandIntegrand}[a + b*\text{ArcCoth}[c*x], x^m/(d + e*x^2), x], x] /; \text{FreeQ}\{a, b, c, d, e, x\} \&\& \text{IntegerQ}[m] \&\& !(\text{EqQ}[m,$

- 1] && NeQ[a, 0])
6556. $\text{Int}[\left((a_{.}) + \text{ArcTanh}[(c_{.})(x_{.})](b_{.})\right)^{(p_{.})}(x_{.})\left((d_{.}) + (e_{.})(x_{.})^2\right)^{(q_{.})}, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(q + 1)}\left((a + b*\text{ArcTanh}[c*x])^p / (2*e*(q + 1))\right), x] + \text{Simp}[b*(p/(2*c*(q + 1))) \text{Int}[(d + e*x^2)^q*(a + b*\text{ArcTanh}[c*x])^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, q\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[q, -1]$
6557. $\text{Int}[\left((a_{.}) + \text{ArcCoth}[(c_{.})(x_{.})](b_{.})\right)^{(p_{.})}(x_{.})\left((d_{.}) + (e_{.})(x_{.})^2\right)^{(q_{.})}, x_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(q + 1)}\left((a + b*\text{ArcCoth}[c*x])^p / (2*e*(q + 1))\right), x] + \text{Simp}[b*(p/(2*c*(q + 1))) \text{Int}[(d + e*x^2)^q*(a + b*\text{ArcCoth}[c*x])^{(p - 1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, q\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0] \&\& \text{NeQ}[q, -1]$
6558. $\text{Int}[\left(\left(\left(a_{.}\right) + \text{ArcTanh}[(c_{.})(x_{.})](b_{.})\right)^{(p_{.})}(x_{.})\right) / \left(\left(d_{.}\right) + (e_{.})(x_{.})^2\right)^2, x_Symbol] \rightarrow \text{Simp}[x*\left((a + b*\text{ArcTanh}[c*x])^{(p + 1)} / (b*c*d*(p + 1)*(d + e*x^2)\right), x] + \left(\text{Simp}[(1 + c^2*x^2)*\left((a + b*\text{ArcTanh}[c*x])^{(p + 2)} / (b^2*e*(p + 1)*(p + 2)*(d + e*x^2)\right), x] + \text{Simp}[4/(b^2*(p + 1)*(p + 2)) \text{Int}[x*\left((a + b*\text{ArcTanh}[c*x])^{(p + 2)} / (d + e*x^2)^2\right), x], x]\right) /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2]$
6559. $\text{Int}[\left(\left(\left(a_{.}\right) + \text{ArcCoth}[(c_{.})(x_{.})](b_{.})\right)^{(p_{.})}(x_{.})\right) / \left(\left(d_{.}\right) + (e_{.})(x_{.})^2\right)^2, x_Symbol] \rightarrow \text{Simp}[x*\left((a + b*\text{ArcCoth}[c*x])^{(p + 1)} / (b*c*d*(p + 1)*(d + e*x^2)\right), x] + \left(\text{Simp}[(1 + c^2*x^2)*\left((a + b*\text{ArcCoth}[c*x])^{(p + 2)} / (b^2*e*(p + 1)*(p + 2)*(d + e*x^2)\right), x] + \text{Simp}[4/(b^2*(p + 1)*(p + 2)) \text{Int}[x*\left((a + b*\text{ArcCoth}[c*x])^{(p + 2)} / (d + e*x^2)^2\right), x], x]\right) /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[p, -2]$
6560. $\text{Int}[\left((a_{.}) + \text{ArcTanh}[(c_{.})(x_{.})](b_{.})\right)*(x_{.})^2*\left((d_{.}) + (e_{.})(x_{.})^2\right)^{(q_{.})}, x_Symbol] \rightarrow \text{Simp}[(-b)*\left((d + e*x^2)^{(q + 1)} / (4*c^3*d*(q + 1)^2\right), x] + \left(-\text{Simp}[x*(d + e*x^2)^{(q + 1)}*\left((a + b*\text{ArcTanh}[c*x]) / (2*c^2*d*(q + 1))\right), x] + \text{Simp}[1/(2*c^2*d*(q + 1)) \text{Int}[(d + e*x^2)^{(q + 1)}*(a + b*\text{ArcTanh}[c*x]), x], x]\right) /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[q, -1] \&\& \text{NeQ}[q, -5/2]$

6561. $\text{Int}[\left((a_{_}) + \text{ArcCoth}[(c_{_})*(x_{_})]*(b_{_})\right)*(x_{_})^2*((d_{_}) + (e_{_})*(x_{_})^2)^{(q_{_})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b)*((d + e*x^2)^{(q + 1)}/(4*c^3*d*(q + 1)^2)), x] + (-\text{Simp}[x*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcCoth}[c*x])/(2*c^2*d*(q + 1))), x] + \text{Simp}[1/(2*c^2*d*(q + 1)) \text{Int}[(d + e*x^2)^{(q + 1)}*(a + b*\text{ArcCoth}[c*x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{LtQ}[q, -1] \&\& \text{NeQ}[q, -5/2]$
6562. $\text{Int}[\left(\left((a_{_}) + \text{ArcTanh}[(c_{_})*(x_{_})]*(b_{_})\right)^{(p_{_})}*(x_{_})^2\right)/((d_{_}) + (e_{_})*(x_{_})^2)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[-(a + b*\text{ArcTanh}[c*x])^{(p + 1)}/(2*b*c^3*d^2*(p + 1)), x] + (\text{Simp}[x*((a + b*\text{ArcTanh}[c*x])^p/(2*c^2*d*(d + e*x^2))), x] - \text{Simp}[b*(p/(2*c)) \text{Int}[x*((a + b*\text{ArcTanh}[c*x])^{(p - 1)})/(d + e*x^2)^2], x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0]$
6563. $\text{Int}[\left(\left((a_{_}) + \text{ArcCoth}[(c_{_})*(x_{_})]*(b_{_})\right)^{(p_{_})}*(x_{_})^2\right)/((d_{_}) + (e_{_})*(x_{_})^2)^2, x_{\text{Symbol}}] \rightarrow \text{Simp}[-(a + b*\text{ArcCoth}[c*x])^{(p + 1)}/(2*b*c^3*d^2*(p + 1)), x] + (\text{Simp}[x*((a + b*\text{ArcCoth}[c*x])^p/(2*c^2*d*(d + e*x^2))), x] - \text{Simp}[b*(p/(2*c)) \text{Int}[x*((a + b*\text{ArcCoth}[c*x])^{(p - 1)})/(d + e*x^2)^2], x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0]$
6564. $\text{Int}[\left((a_{_}) + \text{ArcTanh}[(c_{_})*(x_{_})]*(b_{_})\right)*((f_{_})*(x_{_}))^{(m_{_})}*((d_{_}) + (e_{_})*(x_{_})^2)^{(q_{_})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b)*(f*x)^m*((d + e*x^2)^{(q + 1)})/(c*d*m^2), x] + (\text{Simp}[f*(f*x)^{(m - 1)}*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcTanh}[c*x])/(c^2*d*m)), x] - \text{Simp}[f^2*((m - 1)/(c^2*d*m)) \text{Int}[(f*x)^{(m - 2)}*(d + e*x^2)^{(q + 1)}*(a + b*\text{ArcTanh}[c*x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[q, -1]$
6565. $\text{Int}[\left((a_{_}) + \text{ArcCoth}[(c_{_})*(x_{_})]*(b_{_})\right)*((f_{_})*(x_{_}))^{(m_{_})}*((d_{_}) + (e_{_})*(x_{_})^2)^{(q_{_})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(-b)*(f*x)^m*((d + e*x^2)^{(q + 1)})/(c*d*m^2), x] + (\text{Simp}[f*(f*x)^{(m - 1)}*(d + e*x^2)^{(q + 1)}*((a + b*\text{ArcCoth}[c*x])/(c^2*d*m)), x] - \text{Simp}[f^2*((m - 1)/(c^2*d*m)) \text{Int}[(f*x)^{(m - 2)}*(d + e*x^2)^{(q + 1)}*(a + b*\text{ArcCoth}[c*x]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[q, -1]$

6566. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.)]^{(p_)}*((f_.)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(-b)*p*(f*x)^m*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcTanh}[c*x])^{(p-1)})/(c*d*m^2), x] + (\text{Simp}[f*(f*x)^{(m-1)}*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcTanh}[c*x])^p)/(c^2*d*m), x] - \text{Simp}[f^2*((m-1)/(c^2*d*m)) \text{Int}[(f*x)^{(m-2)}*(d + e*x^2)^{(q+1)}*(a + b*\text{ArcTanh}[c*x])^p, x], x] + \text{Simp}[b^2*p*((p-1)/m^2) \text{Int}[(f*x)^m*(d + e*x^2)^q*(a + b*\text{ArcTanh}[c*x])^{(p-2)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[q, -1] \&\& \text{GtQ}[p, 1]$
6567. $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.)]^{(p_)}*((f_.)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(-b)*p*(f*x)^m*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcCoth}[c*x])^{(p-1)})/(c*d*m^2), x] + (\text{Simp}[f*(f*x)^{(m-1)}*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcCoth}[c*x])^p)/(c^2*d*m), x] - \text{Simp}[f^2*((m-1)/(c^2*d*m)) \text{Int}[(f*x)^{(m-2)}*(d + e*x^2)^{(q+1)}*(a + b*\text{ArcCoth}[c*x])^p, x], x] + \text{Simp}[b^2*p*((p-1)/m^2) \text{Int}[(f*x)^m*(d + e*x^2)^q*(a + b*\text{ArcCoth}[c*x])^{(p-2)}, x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[q, -1] \&\& \text{GtQ}[p, 1]$
6568. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.)]^{(p_)}*((f_.)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^m*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcTanh}[c*x])^{(p+1)})/(b*c*d*(p+1)), x] - \text{Simp}[f*(m/(b*c*(p+1))) \text{Int}[(f*x)^{(m-1)}*(d + e*x^2)^q*(a + b*\text{ArcTanh}[c*x])^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[p, -1]$
6569. $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.)]^{(p_)}*((f_.)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^m*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcCoth}[c*x])^{(p+1)})/(b*c*d*(p+1)), x] - \text{Simp}[f*(m/(b*c*(p+1))) \text{Int}[(f*x)^{(m-1)}*(d + e*x^2)^q*(a + b*\text{ArcCoth}[c*x])^{(p+1)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[m + 2*q + 2, 0] \&\& \text{LtQ}[p, -1]$
6570. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.)]^{(p_)}*((f_.)*(x_))^{(m_)}*((d_.) + (e_.)*(x_)^2)^{(q_)}, x_Symbol] \rightarrow \text{Simp}[(f*x)^{(m+1)}*(d + e*x^2)^{(q+1)}*((a + b*\text{ArcTanh}[c*x])^p)/(d*(m+1)), x] - \text{Simp}[b*c*(p/(m+1))$

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Int[(f*x)^(m + 1)*(d + e*x^2)^q*(a + b*ArcTanh[c*x])^(p - 1), x], x]
/; FreeQ[{a, b, c, d, e, f, m, q}, x] && EqQ[c^2*d + e, 0] && EqQ[m +
2*q + 3, 0] && GtQ[p, 0] && NeQ[m, -1]

6571. Int[((a_.) + ArcCoth[(c_.)*(x_)]*(b_.))^(p_.)*((f_.)*(x_))^(m_.)*((d_)
+ (e_.)*(x_)^2)^(q_.), x_Symbol] := Simp[(f*x)^(m + 1)*(d + e*x^2)^(q
+ 1)*((a + b*ArcCoth[c*x])^p/(d*f*(m + 1))), x] - Simp[b*c*(p/(f*(m +
1))) Int[(f*x)^(m + 1)*(d + e*x^2)^q*(a + b*ArcCoth[c*x])^(p - 1),
x], x] /; FreeQ[{a, b, c, d, e, f, m, q}, x] && EqQ[c^2*d + e, 0] && E
qQ[m + 2*q + 3, 0] && GtQ[p, 0] && NeQ[m, -1]

6572. Int[((a_.) + ArcTanh[(c_.)*(x_)]*(b_.))*((f_.)*(x_))^(m_)*Sqrt[(d_) +
(e_.)*(x_)^2], x_Symbol] := Simp[(f*x)^(m + 1)*Sqrt[d + e*x^2]*((a + b
*ArcTanh[c*x])/(f*(m + 2))), x] + (Simp[d/(m + 2) Int[(f*x)^m*((a +
b*ArcTanh[c*x])/Sqrt[d + e*x^2]), x], x] - Simp[b*c*(d/(f*(m + 2)))
Int[(f*x)^(m + 1)/Sqrt[d + e*x^2], x], x]) /; FreeQ[{a, b, c, d, e, f,
m}, x] && EqQ[c^2*d + e, 0] && NeQ[m, -2]

6573. Int[((a_.) + ArcCoth[(c_.)*(x_)]*(b_.))*((f_.)*(x_))^(m_)*Sqrt[(d_) +
(e_.)*(x_)^2], x_Symbol] := Simp[(f*x)^(m + 1)*Sqrt[d + e*x^2]*((a + b
*ArcCoth[c*x])/(f*(m + 2))), x] + (Simp[d/(m + 2) Int[(f*x)^m*((a +
b*ArcCoth[c*x])/Sqrt[d + e*x^2]), x], x] - Simp[b*c*(d/(f*(m + 2)))
Int[(f*x)^(m + 1)/Sqrt[d + e*x^2], x], x]) /; FreeQ[{a, b, c, d, e, f,
m}, x] && EqQ[c^2*d + e, 0] && NeQ[m, -2]

6574. Int[((a_.) + ArcTanh[(c_.)*(x_)]*(b_.))^(p_.)*((f_.)*(x_))^(m_)*((d_)
+ (e_.)*(x_)^2)^(q_.), x_Symbol] := Int[ExpandIntegrand[(f*x)^m*(d + e*
x^2)^q*(a + b*ArcTanh[c*x])^p, x], x] /; FreeQ[{a, b, c, d, e, f, m},
x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && IGtQ[q, 1]

6575. Int[((a_.) + ArcCoth[(c_.)*(x_)]*(b_.))^(p_.)*((f_.)*(x_))^(m_)*((d_)
+ (e_.)*(x_)^2)^(q_.), x_Symbol] := Int[ExpandIntegrand[(f*x)^m*(d + e*
x^2)^q*(a + b*ArcCoth[c*x])^p, x], x] /; FreeQ[{a, b, c, d, e, f, m},
x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && IGtQ[q, 1]

6576. Int[((a_.) + ArcTanh[(c_.)*(x_)]*(b_.))^(p_.)*((f_.)*(x_))^(m_)*((d_)
+ (e_.)*(x_)^2)^(q_.), x_Symbol] := Simp[d Int[(f*x)^m*(d + e*x^2)^(

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- $$(q - 1) \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p, x], x] - \text{Simp}[c^2 \cdot (d/f^2) \text{ Int}[(f \cdot x)^{(m + 2)} \cdot (d + e \cdot x^2)^{(q - 1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ (\text{RationalQ}[m] \ || \ (\text{EqQ}[p, 1] \ \&\& \ \text{IntegerQ}[q]))$$
6577. 
$$\text{Int}[\{(a_{\cdot}) + \text{ArcCoth}[(c_{\cdot}) \cdot (x_{\cdot})] \cdot (b_{\cdot})\}^{(p_{\cdot})} \cdot \{(f_{\cdot}) \cdot (x_{\cdot})\}^{(m_{\cdot})} \cdot \{(d_{\cdot}) + (e_{\cdot}) \cdot (x_{\cdot})^2\}^{(q_{\cdot})}, x\_Symbol] \rightarrow \text{Simp}[d \text{ Int}[(f \cdot x)^m \cdot (d + e \cdot x^2)^{(q - 1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p, x], x] - \text{Simp}[c^2 \cdot (d/f^2) \text{ Int}[(f \cdot x)^{(m + 2)} \cdot (d + e \cdot x^2)^{(q - 1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[q, 0] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ (\text{RationalQ}[m] \ || \ (\text{EqQ}[p, 1] \ \&\& \ \text{IntegerQ}[q]))$$
6578. 
$$\text{Int}[\{(a_{\cdot}) + \text{ArcTanh}[(c_{\cdot}) \cdot (x_{\cdot})] \cdot (b_{\cdot})\}^{(p_{\cdot})} \cdot \{(f_{\cdot}) \cdot (x_{\cdot})\}^{(m_{\cdot})} / \text{Sqrt}[(d_{\cdot}) + (e_{\cdot}) \cdot (x_{\cdot})^2], x\_Symbol] \rightarrow \text{Simp}[(-f) \cdot (f \cdot x)^{(m - 1)} \cdot \text{Sqrt}[d + e \cdot x^2] \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p / (c^2 \cdot d \cdot m), x] + (\text{Simp}[b \cdot f \cdot (p / (c \cdot m)) \text{ Int}[(f \cdot x)^{(m - 1)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^{(p - 1)} / \text{Sqrt}[d + e \cdot x^2]), x], x] + \text{Simp}[f^2 \cdot (m - 1) / (c^2 \cdot m) \text{ Int}[(f \cdot x)^{(m - 2)} \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p / \text{Sqrt}[d + e \cdot x^2]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{GtQ}[m, 1]$$
6579. 
$$\text{Int}[\{(a_{\cdot}) + \text{ArcCoth}[(c_{\cdot}) \cdot (x_{\cdot})] \cdot (b_{\cdot})\}^{(p_{\cdot})} \cdot \{(f_{\cdot}) \cdot (x_{\cdot})\}^{(m_{\cdot})} / \text{Sqrt}[(d_{\cdot}) + (e_{\cdot}) \cdot (x_{\cdot})^2], x\_Symbol] \rightarrow \text{Simp}[(-f) \cdot (f \cdot x)^{(m - 1)} \cdot \text{Sqrt}[d + e \cdot x^2] \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p / (c^2 \cdot d \cdot m), x] + (\text{Simp}[b \cdot f \cdot (p / (c \cdot m)) \text{ Int}[(f \cdot x)^{(m - 1)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^{(p - 1)} / \text{Sqrt}[d + e \cdot x^2]), x], x] + \text{Simp}[f^2 \cdot (m - 1) / (c^2 \cdot m) \text{ Int}[(f \cdot x)^{(m - 2)} \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p / \text{Sqrt}[d + e \cdot x^2]), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[p, 0] \ \&\& \ \text{GtQ}[m, 1]$$
6580. 
$$\text{Int}[\{(a_{\cdot}) + \text{ArcTanh}[(c_{\cdot}) \cdot (x_{\cdot})] \cdot (b_{\cdot})\} / ((x_{\cdot}) \cdot \text{Sqrt}[(d_{\cdot}) + (e_{\cdot}) \cdot (x_{\cdot})^2]), x\_Symbol] \rightarrow \text{Simp}[(-2 / \text{Sqrt}[d]) \cdot (a + b \cdot \text{ArcTanh}[c \cdot x]) \cdot \text{ArcTanh}[\text{Sqrt}[1 - c \cdot x] / \text{Sqrt}[1 + c \cdot x]], x] + (\text{Simp}[(b / \text{Sqrt}[d]) \cdot \text{PolyLog}[2, -\text{Sqrt}[1 - c \cdot x] / \text{Sqrt}[1 + c \cdot x]], x] - \text{Simp}[(b / \text{Sqrt}[d]) \cdot \text{PolyLog}[2, \text{Sqrt}[1 - c \cdot x] / \text{Sqrt}[1 + c \cdot x]], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \ \&\& \ \text{EqQ}[c^2 \cdot d + e, 0] \ \&\& \ \text{GtQ}[d, 0]$$
6581. 
$$\text{Int}[\{(a_{\cdot}) + \text{ArcCoth}[(c_{\cdot}) \cdot (x_{\cdot})] \cdot (b_{\cdot})\} / ((x_{\cdot}) \cdot \text{Sqrt}[(d_{\cdot}) + (e_{\cdot}) \cdot (x_{\cdot})^2]), x\_Symbol] \rightarrow \text{Simp}[(-2 / \text{Sqrt}[d]) \cdot (a + b \cdot \text{ArcCoth}[c \cdot x]) \cdot \text{ArcTanh}[\text{Sqrt}[1$$

- $$-c*x]/\text{Sqrt}[1+c*x]], x] + (\text{Simp}[(b/\text{Sqrt}[d])*PolyLog[2, -\text{Sqrt}[1-c*x]/\text{Sqrt}[1+c*x]], x] - \text{Simp}[(b/\text{Sqrt}[d])*PolyLog[2, \text{Sqrt}[1-c*x]/\text{Sqrt}[1+c*x]], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[d, 0]$$
6582.  $\text{Int}[(a + \text{ArcTanh}[(c \cdot x)] \cdot b)^p / ((x) \cdot \text{Sqrt}[(d) + (e) \cdot (x)^2]), x\_Symbol] \rightarrow \text{Simp}[1/\text{Sqrt}[d] \text{ Subst}[\text{Int}[(a + b \cdot x)^p \cdot \text{Csch}[x], x], x, \text{ArcTanh}[c \cdot x]], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{GtQ}[d, 0]$
6583.  $\text{Int}[(a + \text{ArcCoth}[(c \cdot x)] \cdot b)^p / ((x) \cdot \text{Sqrt}[(d) + (e) \cdot (x)^2]), x\_Symbol] \rightarrow \text{Simp}[(-c) \cdot x \cdot (\text{Sqrt}[1 - 1/(c^2 \cdot x^2)]/\text{Sqrt}[d + e \cdot x^2]) \text{ Subst}[\text{Int}[(a + b \cdot x)^p \cdot \text{Sech}[x], x], x, \text{ArcCoth}[c \cdot x]], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[p, 0] \&\& \text{GtQ}[d, 0]$
6584.  $\text{Int}[(a + \text{ArcTanh}[(c \cdot x)] \cdot b)^p / ((x) \cdot \text{Sqrt}[(d) + (e) \cdot (x)^2]), x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 - c^2 \cdot x^2]/\text{Sqrt}[d + e \cdot x^2] \text{ Int}[(a + b \cdot \text{ArcTanh}[c \cdot x])^p / (x \cdot \text{Sqrt}[1 - c^2 \cdot x^2]), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[p, 0] \&\& !\text{GtQ}[d, 0]$
6585.  $\text{Int}[(a + \text{ArcCoth}[(c \cdot x)] \cdot b)^p / ((x) \cdot \text{Sqrt}[(d) + (e) \cdot (x)^2]), x\_Symbol] \rightarrow \text{Simp}[\text{Sqrt}[1 - c^2 \cdot x^2]/\text{Sqrt}[d + e \cdot x^2] \text{ Int}[(a + b \cdot \text{ArcCoth}[c \cdot x])^p / (x \cdot \text{Sqrt}[1 - c^2 \cdot x^2]), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[p, 0] \&\& !\text{GtQ}[d, 0]$
6586.  $\text{Int}[(a + \text{ArcTanh}[(c \cdot x)] \cdot b)^p / ((x)^2 \cdot \text{Sqrt}[(d) + (e) \cdot (x)^2]), x\_Symbol] \rightarrow \text{Simp}[(-\text{Sqrt}[d + e \cdot x^2]) \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])^p / (d \cdot x), x] + \text{Simp}[b \cdot c \cdot p \text{ Int}[(a + b \cdot \text{ArcTanh}[c \cdot x])^{p-1} / (x \cdot \text{Sqrt}[d + e \cdot x^2]), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0]$
6587.  $\text{Int}[(a + \text{ArcCoth}[(c \cdot x)] \cdot b)^p / ((x)^2 \cdot \text{Sqrt}[(d) + (e) \cdot (x)^2]), x\_Symbol] \rightarrow \text{Simp}[(-\text{Sqrt}[d + e \cdot x^2]) \cdot (a + b \cdot \text{ArcCoth}[c \cdot x])^p / (d \cdot x), x] + \text{Simp}[b \cdot c \cdot p \text{ Int}[(a + b \cdot \text{ArcCoth}[c \cdot x])^{p-1} / (x \cdot \text{Sqrt}[d + e \cdot x^2]), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0]$

6588.  $\text{Int}[\frac{((a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.))^{\text{p}_.}*((f_.)*(x_))^{\text{m}_.}}{\sqrt{(d_.) + (e_.)*(x_)^2}}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^{\text{m}+1}*\sqrt{d+e*x^2}*((a+b*\text{ArcTanh}[c*x])^{\text{p}}/(d*f*(\text{m}+1))), x] + (-\text{Simp}[b*c*(\text{p}/(f*(\text{m}+1))) \text{Int}[(f*x)^{\text{m}+1}*((a+b*\text{ArcTanh}[c*x])^{\text{p}-1})/\sqrt{d+e*x^2}], x], x] + \text{Simp}[c^2*((\text{m}+2)/(f^2*(\text{m}+1))) \text{Int}[(f*x)^{\text{m}+2}*((a+b*\text{ArcTanh}[c*x])^{\text{p}}/\sqrt{d+e*x^2}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[m, -2]$
6589.  $\text{Int}[\frac{((a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.))^{\text{p}_.}*((f_.)*(x_))^{\text{m}_.}}{\sqrt{(d_.) + (e_.)*(x_)^2}}, x\_Symbol] \rightarrow \text{Simp}[(f*x)^{\text{m}+1}*\sqrt{d+e*x^2}*((a+b*\text{ArcCoth}[c*x])^{\text{p}}/(d*f*(\text{m}+1))), x] + (-\text{Simp}[b*c*(\text{p}/(f*(\text{m}+1))) \text{Int}[(f*x)^{\text{m}+1}*((a+b*\text{ArcCoth}[c*x])^{\text{p}-1})/\sqrt{d+e*x^2}], x], x] + \text{Simp}[c^2*((\text{m}+2)/(f^2*(\text{m}+1))) \text{Int}[(f*x)^{\text{m}+2}*((a+b*\text{ArcCoth}[c*x])^{\text{p}}/\sqrt{d+e*x^2}), x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{GtQ}[p, 0] \&\& \text{LtQ}[m, -1] \&\& \text{NeQ}[m, -2]$
6590.  $\text{Int}[\frac{((a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.))^{\text{p}_.}*(x_)^{\text{m}_.}*((d_.) + (e_.)*(x_)^2)^{\text{q}_.}}{x\_Symbol], x\_Symbol] \rightarrow \text{Simp}[1/e \text{Int}[x^{\text{m}-2}*(d+e*x^2)^{\text{q}+1}*(a+b*\text{ArcTanh}[c*x])^{\text{p}}, x], x] - \text{Simp}[d/e \text{Int}[x^{\text{m}-2}*(d+e*x^2)^{\text{q}}*(a+b*\text{ArcTanh}[c*x])^{\text{p}}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegersQ}[p, 2*q] \&\& \text{LtQ}[q, -1] \&\& \text{IGtQ}[m, 1] \&\& \text{NeQ}[p, -1]$
6591.  $\text{Int}[\frac{((a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.))^{\text{p}_.}*(x_)^{\text{m}_.}*((d_.) + (e_.)*(x_)^2)^{\text{q}_.}}{x\_Symbol], x\_Symbol] \rightarrow \text{Simp}[1/e \text{Int}[x^{\text{m}-2}*(d+e*x^2)^{\text{q}+1}*(a+b*\text{ArcCoth}[c*x])^{\text{p}}, x], x] - \text{Simp}[d/e \text{Int}[x^{\text{m}-2}*(d+e*x^2)^{\text{q}}*(a+b*\text{ArcCoth}[c*x])^{\text{p}}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegersQ}[p, 2*q] \&\& \text{LtQ}[q, -1] \&\& \text{IGtQ}[m, 1] \&\& \text{NeQ}[p, -1]$
6592.  $\text{Int}[\frac{((a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.))^{\text{p}_.}*(x_)^{\text{m}_.}*((d_.) + (e_.)*(x_)^2)^{\text{q}_.}}{x\_Symbol], x\_Symbol] \rightarrow \text{Simp}[1/d \text{Int}[x^{\text{m}}*(d+e*x^2)^{\text{q}+1}*(a+b*\text{ArcTanh}[c*x])^{\text{p}}, x], x] - \text{Simp}[e/d \text{Int}[x^{\text{m}+2}*(d+e*x^2)^{\text{q}}*(a+b*\text{ArcTanh}[c*x])^{\text{p}}, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegersQ}[p, 2*q] \&\& \text{LtQ}[q, -1] \&\& \text{ILtQ}[m, 0] \&\& \text{NeQ}[p, -1]$

6593.  $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)(x_)]*(b_.)]^{(p_.)}(x_)^{(m_.)}((d_) + (e_.)) * (x_)^2)^{(q_)} , x\_Symbol] \rightarrow \text{Simp}[1/d \text{ Int}[x^m(d + e*x^2)^{(q+1)}(a + b*\text{ArcCoth}[c*x])^p, x], x] - \text{Simp}[e/d \text{ Int}[x^{(m+2)}(d + e*x^2)^q(a + b*\text{ArcCoth}[c*x])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegersQ}[p, 2*q] \&\& \text{LtQ}[q, -1] \&\& \text{ILtQ}[m, 0] \&\& \text{NeQ}[p, -1]$
6594.  $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)(x_)]*(b_.)]^{(p_.)}(x_)^{(m_.)}((d_) + (e_.)) * (x_)^2)^{(q_)} , x\_Symbol] \rightarrow \text{Simp}[x^m(d + e*x^2)^{(q+1)}((a + b*\text{ArcTanh}[c*x])^{(p+1)})/(b*c*d*(p+1)), x] + (\text{Simp}[c*((m+2*q+2)/(b*(p+1))) \text{ Int}[x^{(m+1)}(d + e*x^2)^q(a + b*\text{ArcTanh}[c*x])^{(p+1)}, x], x] - \text{Simp}[m/(b*c*(p+1)) \text{ Int}[x^{(m-1)}(d + e*x^2)^q(a + b*\text{ArcTanh}[c*x])^{(p+1)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[m] \&\& \text{LtQ}[q, -1] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[m + 2*q + 2, 0]$
6595.  $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)(x_)]*(b_.)]^{(p_.)}(x_)^{(m_.)}((d_) + (e_.)) * (x_)^2)^{(q_)} , x\_Symbol] \rightarrow \text{Simp}[x^m(d + e*x^2)^{(q+1)}((a + b*\text{ArcCoth}[c*x])^{(p+1)})/(b*c*d*(p+1)), x] + (\text{Simp}[c*((m+2*q+2)/(b*(p+1))) \text{ Int}[x^{(m+1)}(d + e*x^2)^q(a + b*\text{ArcCoth}[c*x])^{(p+1)}, x], x] - \text{Simp}[m/(b*c*(p+1)) \text{ Int}[x^{(m-1)}(d + e*x^2)^q(a + b*\text{ArcCoth}[c*x])^{(p+1)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[m] \&\& \text{LtQ}[q, -1] \&\& \text{LtQ}[p, -1] \&\& \text{NeQ}[m + 2*q + 2, 0]$
6596.  $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)(x_)]*(b_.)]^{(p_.)}(x_)^{(m_.)}((d_) + (e_.)) * (x_)^2)^{(q_)} , x\_Symbol] \rightarrow \text{Simp}[d^q/c^{(m+1)} \text{ Subst}[\text{Int}[(a + b*x)^p * (\text{Sinh}[x]^m/\text{Cosh}[x]^{(m+2*(q+1))}), x], x, \text{ArcTanh}[c*x]], x] /; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{ILtQ}[m + 2*q + 1, 0] \&\& (\text{IntegerQ}[q] \|\| \text{GtQ}[d, 0])$
6597.  $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)(x_)]*(b_.)]^{(p_.)}(x_)^{(m_.)}((d_) + (e_.)) * (x_)^2)^{(q_)} , x\_Symbol] \rightarrow \text{Simp}[d^{(q+1/2)}*(\text{Sqrt}[1 - c^2*x^2]/\text{Sqrt}[d + e*x^2]) \text{ Int}[x^m(1 - c^2*x^2)^q(a + b*\text{ArcTanh}[c*x])^p, x], x] /; \text{FreeQ}[\{a, b, c, d, e, p\}, x] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[m, 0] \&\& \text{ILtQ}[m + 2*q + 1, 0] \&\& !(\text{IntegerQ}[q] \|\| \text{GtQ}[d, 0])$
6598.  $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)(x_)]*(b_.)]^{(p_.)}(x_)^{(m_.)}((d_) + (e_.)) * (x_)^2)^{(q_)} , x\_Symbol] \rightarrow \text{Simp}[(-d)^q/c^{(m+1)} \text{ Subst}[\text{Int}[(a + b*$



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x)^p*(Cosh[x]^m/Sinh[x]^(m + 2*(q + 1))), x], x, ArcCoth[c*x]], x] /;
FreeQ[{a, b, c, d, e, p}, x] && EqQ[c^2*d + e, 0] && IGtQ[m, 0] && ILt
Q[m + 2*q + 1, 0] && IntegerQ[q]

6599. Int[((a_.) + ArcCoth[(c_.)*(x_)])*(b_.))^(p_.)*(x_)^(m_.)*((d_.) + (e_.)
*(x_)^2)^(q_.), x_Symbol] := Simp[(-(-d)^(q + 1/2))*x*(Sqrt[(c^2*x^2 -
1)/(c^2*x^2)]/(c^m*Sqrt[d + e*x^2])) Subst[Int[(a + b*x)^p*(Cosh[x]^
m/Sinh[x]^(m + 2*(q + 1))), x], x, ArcCoth[c*x]], x] /; FreeQ[{a, b, c
, d, e, p}, x] && EqQ[c^2*d + e, 0] && IGtQ[m, 0] && ILtQ[m + 2*q + 1,
0] && !IntegerQ[q]

6600. Int[((a_.) + ArcTanh[(c_.)*(x_)])*(b_.))*(x_)*((d_.) + (e_.)*(x_)^2)^(q
_.), x_Symbol] := Simp[(d + e*x^2)^(q + 1)*((a + b*ArcTanh[c*x])/(2*e*
(q + 1))), x] - Simp[b*(c/(2*e*(q + 1))) Int[(d + e*x^2)^(q + 1)/(1
- c^2*x^2), x], x] /; FreeQ[{a, b, c, d, e, q}, x] && NeQ[q, -1]

6601. Int[((a_.) + ArcCoth[(c_.)*(x_)])*(b_.))*(x_)*((d_.) + (e_.)*(x_)^2)^(q
_.), x_Symbol] := Simp[(d + e*x^2)^(q + 1)*((a + b*ArcCoth[c*x])/(2*e*
(q + 1))), x] - Simp[b*(c/(2*e*(q + 1))) Int[(d + e*x^2)^(q + 1)/(1
- c^2*x^2), x], x] /; FreeQ[{a, b, c, d, e, q}, x] && NeQ[q, -1]

6602. Int[((a_.) + ArcTanh[(c_.)*(x_)])*(b_.))*((f_.)*(x_)^(m_.)*((d_.) + (e
_.)*(x_)^2)^(q_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x^2)^
q, x]}, Simp[(a + b*ArcTanh[c*x]) u, x] - Simp[b*c Int[SimplifyInt
egrand[u/(1 - c^2*x^2), x], x], x]] /; FreeQ[{a, b, c, d, e, f, m, q},
x] && ((IGtQ[q, 0] && !(ILtQ[(m - 1)/2, 0] && GtQ[m + 2*q + 3, 0]))
|| (IGtQ[(m + 1)/2, 0] && !(ILtQ[q, 0] && GtQ[m + 2*q + 3, 0])) || (I
LtQ[(m + 2*q + 1)/2, 0] && !ILtQ[(m - 1)/2, 0]))

6603. Int[((a_.) + ArcCoth[(c_.)*(x_)])*(b_.))*((f_.)*(x_)^(m_.)*((d_.) + (e
_.)*(x_)^2)^(q_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x^2)^
q, x]}, Simp[(a + b*ArcCoth[c*x]) u, x] - Simp[b*c Int[SimplifyInt
egrand[u/(1 - c^2*x^2), x], x], x]] /; FreeQ[{a, b, c, d, e, f, m, q},
x] && ((IGtQ[q, 0] && !(ILtQ[(m - 1)/2, 0] && GtQ[m + 2*q + 3, 0]))
|| (IGtQ[(m + 1)/2, 0] && !(ILtQ[q, 0] && GtQ[m + 2*q + 3, 0])) || (I
LtQ[(m + 2*q + 1)/2, 0] && !ILtQ[(m - 1)/2, 0]))

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6604. $\text{Int}[(((a_.) + \text{ArcTanh}[(c_.)(x_)])(b_.))^{(p_.)(x_)} / ((d_.) + (e_.)(x_)^2)^2, x_Symbol] \rightarrow \text{Simp}[1/(4*d^2*Rt[-e/d, 2]) \text{Int}[(a + b*\text{ArcTanh}[c*x])^p/(1 - Rt[-e/d, 2]*x)^2, x], x] - \text{Simp}[1/(4*d^2*Rt[-e/d, 2]) \text{Int}[(a + b*\text{ArcTanh}[c*x])^p/(1 + Rt[-e/d, 2]*x)^2, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0]$
6605. $\text{Int}[(((a_.) + \text{ArcCoth}[(c_.)(x_)])(b_.))^{(p_.)(x_)} / ((d_.) + (e_.)(x_)^2)^2, x_Symbol] \rightarrow \text{Simp}[1/(4*d^2*Rt[-e/d, 2]) \text{Int}[(a + b*\text{ArcCoth}[c*x])^p/(1 - Rt[-e/d, 2]*x)^2, x], x] - \text{Simp}[1/(4*d^2*Rt[-e/d, 2]) \text{Int}[(a + b*\text{ArcCoth}[c*x])^p/(1 + Rt[-e/d, 2]*x)^2, x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0]$
6606. $\text{Int}[(a_.) + \text{ArcTanh}[(c_.)(x_)](b_.))^{(p_.)((f_.)(x_))^{(m_.)((d_.) + (e_.)(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{With}\{u = \text{ExpandIntegrand}[(a + b*\text{ArcTanh}[c*x])^p, (f*x)^m*(d + e*x^2)^q, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IGtQ}[p, 0] \&\& (\text{GtQ}[q, 0] \|\| \text{IntegerQ}[m])$
6607. $\text{Int}[(a_.) + \text{ArcCoth}[(c_.)(x_)](b_.))^{(p_.)((f_.)(x_))^{(m_.)((d_.) + (e_.)(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{With}\{u = \text{ExpandIntegrand}[(a + b*\text{ArcCoth}[c*x])^p, (f*x)^m*(d + e*x^2)^q, x]\}, \text{Int}[u, x] /; \text{SumQ}[u] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{IntegerQ}[q] \&\& \text{IGtQ}[p, 0] \&\& (\text{GtQ}[q, 0] \|\| \text{IntegerQ}[m])$
6608. $\text{Int}[(\text{ArcTanh}[(c_.)(x_)](b_.) + (a_.))^{((f_.)(x_))^{(m_.)((d_.) + (e_.)(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[a \text{Int}[(f*x)^m*(d + e*x^2)^q, x], x] + \text{Simp}[b \text{Int}[(f*x)^m*(d + e*x^2)^q*\text{ArcTanh}[c*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x]$
6609. $\text{Int}[(\text{ArcCoth}[(c_.)(x_)](b_.) + (a_.))^{((f_.)(x_))^{(m_.)((d_.) + (e_.)(x_)^2)^{(q_.)}, x_Symbol] \rightarrow \text{Simp}[a \text{Int}[(f*x)^m*(d + e*x^2)^q, x], x] + \text{Simp}[b \text{Int}[(f*x)^m*(d + e*x^2)^q*\text{ArcCoth}[c*x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, q\}, x]$
6610. $\text{Int}[(((a_.) + \text{ArcTanh}[(c_.)(x_)])(b_.))^{(p_.)((f_.) + (g_.)(x_))^{(m_.)} / ((d_.) + (e_.)(x_)^2), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcTanh}[c*x])^p/(d + e*x^2), (f + g*x)^m, x], x] /; \text{FreeQ}\{a, b, c, d, e,$

- $f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[m, 0]$
6611. $\text{Int}[(((a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_))^{\text{p_}}*((f_.) + (g_.)*(x_))^{\text{m_}})/((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[(a + b*\text{ArcCoth}[c*x])^p/(d + e*x^2), (f + g*x)^m, x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[m, 0]$
6612. $\text{Int}[(\text{ArcTanh}[u_]*((a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_))^{\text{p_}})/((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[1 + u]*((a + b*\text{ArcTanh}[c*x])^p/(d + e*x^2)), x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[1 - u]*((a + b*\text{ArcTanh}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[u^2 - (1 - 2/(1 + c*x))^2, 0]$
6613. $\text{Int}[(\text{ArcCoth}[u_]*((a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_))^{\text{p_}})/((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[\text{SimplifyIntegrand}[1 + 1/u, x]]*((a + b*\text{ArcCoth}[c*x])^p/(d + e*x^2)), x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[\text{SimplifyIntegrand}[1 - 1/u, x]]*((a + b*\text{ArcCoth}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[u^2 - (1 - 2/(1 + c*x))^2, 0]$
6614. $\text{Int}[(\text{ArcTanh}[u_]*((a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_))^{\text{p_}})/((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[1 + u]*((a + b*\text{ArcTanh}[c*x])^p/(d + e*x^2)), x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[1 - u]*((a + b*\text{ArcTanh}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[u^2 - (1 - 2/(1 - c*x))^2, 0]$
6615. $\text{Int}[(\text{ArcCoth}[u_]*((a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_))^{\text{p_}})/((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[\text{SimplifyIntegrand}[1 + 1/u, x]]*((a + b*\text{ArcCoth}[c*x])^p/(d + e*x^2)), x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[\text{SimplifyIntegrand}[1 - 1/u, x]]*((a + b*\text{ArcCoth}[c*x])^p/(d + e*x^2)), x], x] /; \text{FreeQ}[\{a, b, c, d, e\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{EqQ}[u^2 - (1 - 2/(1 - c*x))^2, 0]$
6616. $\text{Int}[(\text{Log}[(f_.) + (g_.)*(x_)]*((a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_))^{\text{p_}})/((d_.) + (e_.)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[(a + b*\text{ArcTanh}[c*x])^{p+1}*(\text{Log}[f + g*x]/(b*c*d*(p+1))), x] - \text{Simp}[g/(b*c*d*(p+1)) \text{ Int}[(a + b*\text{ArcTanh}[c*x])^{p+1}/(f + g*x), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f$

- , g], x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[c^2*f^2 - g^2, 0]
6617. Int[(Log[(f_) + (g_)*(x_)]*((a_) + ArcCoth[(c_)*(x_)]*(b_))^(p_)) / ((d_) + (e_)*(x_)^2), x_Symbol] := Simp[(a + b*ArcCoth[c*x])^(p + 1) * (Log[f + g*x]/(b*c*d*(p + 1))), x] - Simp[g/(b*c*d*(p + 1)) Int[(a + b*ArcCoth[c*x])^(p + 1)/(f + g*x), x], x] /; FreeQ[{a, b, c, d, e, f, g}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[c^2*f^2 - g^2, 0]
6618. Int[(Log[u_] * ((a_) + ArcTanh[(c_)*(x_)]*(b_))^(p_)) / ((d_) + (e_)*(x_)^2), x_Symbol] := Simp[(a + b*ArcTanh[c*x])^p * (PolyLog[2, 1 - u] / (2*c*d)), x] - Simp[b*(p/2) Int[(a + b*ArcTanh[c*x])^(p - 1) * (PolyLog[2, 1 - u] / (d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[(1 - u)^2 - (1 - 2/(1 + c*x))^2, 0]
6619. Int[(Log[u_] * ((a_) + ArcCoth[(c_)*(x_)]*(b_))^(p_)) / ((d_) + (e_)*(x_)^2), x_Symbol] := Simp[(a + b*ArcCoth[c*x])^p * (PolyLog[2, 1 - u] / (2*c*d)), x] - Simp[b*(p/2) Int[(a + b*ArcCoth[c*x])^(p - 1) * (PolyLog[2, 1 - u] / (d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[(1 - u)^2 - (1 - 2/(1 + c*x))^2, 0]
6620. Int[(Log[u_] * ((a_) + ArcTanh[(c_)*(x_)]*(b_))^(p_)) / ((d_) + (e_)*(x_)^2), x_Symbol] := Simp[(- (a + b*ArcTanh[c*x])^p) * (PolyLog[2, 1 - u] / (2*c*d)), x] + Simp[b*(p/2) Int[(a + b*ArcTanh[c*x])^(p - 1) * (PolyLog[2, 1 - u] / (d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[(1 - u)^2 - (1 - 2/(1 - c*x))^2, 0]
6621. Int[(Log[u_] * ((a_) + ArcCoth[(c_)*(x_)]*(b_))^(p_)) / ((d_) + (e_)*(x_)^2), x_Symbol] := Simp[(- (a + b*ArcCoth[c*x])^p) * (PolyLog[2, 1 - u] / (2*c*d)), x] + Simp[b*(p/2) Int[(a + b*ArcCoth[c*x])^(p - 1) * (PolyLog[2, 1 - u] / (d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[(1 - u)^2 - (1 - 2/(1 - c*x))^2, 0]
6622. Int[(((a_) + ArcTanh[(c_)*(x_)]*(b_))^(p_) * PolyLog[k_, u]) / ((d_) + (e_)*(x_)^2), x_Symbol] := Simp[(- (a + b*ArcTanh[c*x])^p) * (PolyLog[k + 1, u] / (2*c*d)), x] + Simp[b*(p/2) Int[(a + b*ArcTanh[c*x])^(p -

- 1)*(PolyLog[k + 1, u]/(d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e, k}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[u^2 - (1 - 2/(1 + c*x))^2, 0]
6623. Int[(((a_.) + ArcCoth[(c_.)*(x_)])*(b_.))^(p_.)*PolyLog[k_, u_])/((d_.) + (e_.)*(x_)^2), x_Symbol] :> Simp[(-(a + b*ArcCoth[c*x])^p)*(PolyLog[k + 1, u]/(2*c*d)), x] + Simp[b*(p/2) Int[(a + b*ArcCoth[c*x])^(p - 1)*(PolyLog[k + 1, u]/(d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e, k}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[u^2 - (1 - 2/(1 + c*x))^2, 0]
6624. Int[(((a_.) + ArcTanh[(c_.)*(x_)])*(b_.))^(p_.)*PolyLog[k_, u_])/((d_.) + (e_.)*(x_)^2), x_Symbol] :> Simp[(a + b*ArcTanh[c*x])^p*(PolyLog[k + 1, u]/(2*c*d)), x] - Simp[b*(p/2) Int[(a + b*ArcTanh[c*x])^(p - 1)*(PolyLog[k + 1, u]/(d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e, k}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[u^2 - (1 - 2/(1 - c*x))^2, 0]
6625. Int[(((a_.) + ArcCoth[(c_.)*(x_)])*(b_.))^(p_.)*PolyLog[k_, u_])/((d_.) + (e_.)*(x_)^2), x_Symbol] :> Simp[(a + b*ArcCoth[c*x])^p*(PolyLog[k + 1, u]/(2*c*d)), x] - Simp[b*(p/2) Int[(a + b*ArcCoth[c*x])^(p - 1)*(PolyLog[k + 1, u]/(d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e, k}, x] && IGtQ[p, 0] && EqQ[c^2*d + e, 0] && EqQ[u^2 - (1 - 2/(1 - c*x))^2, 0]
6626. Int[1/(((a_.) + ArcCoth[(c_.)*(x_)])*(b_.))*((a_.) + ArcTanh[(c_.)*(x_)])*(b_.))*((d_.) + (e_.)*(x_)^2), x_Symbol] :> Simp[(-Log[a + b*ArcCoth[c*x]] + Log[a + b*ArcTanh[c*x]])/(b^2*c*d*(ArcCoth[c*x] - ArcTanh[c*x])), x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0]
6627. Int[(((a_.) + ArcCoth[(c_.)*(x_)])*(b_.))^(m_.)*((a_.) + ArcTanh[(c_.)*(x_)])*(b_.))^(p_.))/((d_.) + (e_.)*(x_)^2), x_Symbol] :> Simp[(a + b*ArcCoth[c*x])^(m + 1)*((a + b*ArcTanh[c*x])^p/(b*c*d*(m + 1))), x] - Simp[p/(m + 1) Int[(a + b*ArcCoth[c*x])^(m + 1)*((a + b*ArcTanh[c*x])^(p - 1)/(d + e*x^2)), x], x] /; FreeQ[{a, b, c, d, e}, x] && EqQ[c^2*d + e, 0] && IGtQ[p, 0] && IGeQ[m, p]

6628. $\text{Int}[(((a_.) + \text{ArcCoth}[(c_.)(x_)]*(b_.))^{\text{p}_.}) * ((a_.) + \text{ArcTanh}[(c_.)(x_)]*(b_.))^{\text{m}_.}) / ((d_.) + (e_.)(x_)^2), x_Symbol] \rightarrow \text{Simp}[(a + b*\text{ArcTanh}[c*x])^{\text{m} + 1} * ((a + b*\text{ArcCoth}[c*x])^{\text{p}} / (b*c*d*(\text{m} + 1))), x] - \text{Simp}[\text{p} / (\text{m} + 1) \text{Int}[(a + b*\text{ArcTanh}[c*x])^{\text{m} + 1} * ((a + b*\text{ArcCoth}[c*x])^{\text{p} - 1}) / (d + e*x^2)], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x\} \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IGtQ}[\text{p}, 0] \&\& \text{IGtQ}[\text{m}, \text{p}]$
6629. $\text{Int}[\text{ArcTanh}[(a_.)(x_)] / ((c_.) + (d_.)(x_)^{\text{n}_.}), x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[\text{Log}[1 + a*x] / (c + d*x^n), x], x] - \text{Simp}[1/2 \text{Int}[\text{Log}[1 - a*x] / (c + d*x^n), x], x] /; \text{FreeQ}\{a, c, d\}, x\} \&\& \text{IntegerQ}[\text{n}] \&\& \text{!(EqQ}[\text{n}, 2] \&\& \text{EqQ}[a^2*c + d, 0])$
6630. $\text{Int}[\text{ArcCoth}[(a_.)(x_)] / ((c_.) + (d_.)(x_)^{\text{n}_.}), x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[\text{Log}[1 + 1/(a*x)] / (c + d*x^n), x], x] - \text{Simp}[1/2 \text{Int}[\text{Log}[1 - 1/(a*x)] / (c + d*x^n), x], x] /; \text{FreeQ}\{a, c, d\}, x\} \&\& \text{IntegerQ}[\text{n}] \&\& \text{!(EqQ}[\text{n}, 2] \&\& \text{EqQ}[a^2*c + d, 0])$
6631. $\text{Int}[(\text{ArcTanh}[(c_.)(x_)^{\text{n}_.}] * \text{Log}[(d_.)(x_)^{\text{m}_.}]) / (x_), x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[\text{Log}[d*x^m] * (\text{Log}[1 + c*x^n] / x), x], x] - \text{Simp}[1/2 \text{Int}[\text{Log}[d*x^m] * (\text{Log}[1 - c*x^n] / x), x], x] /; \text{FreeQ}\{c, d, m, n\}, x]$
6632. $\text{Int}[(\text{ArcCoth}[(c_.)(x_)^{\text{n}_.}] * \text{Log}[(d_.)(x_)^{\text{m}_.}]) / (x_), x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[\text{Log}[d*x^m] * (\text{Log}[1 + 1/(c*x^n)] / x), x], x] - \text{Simp}[1/2 \text{Int}[\text{Log}[d*x^m] * (\text{Log}[1 - 1/(c*x^n)] / x), x], x] /; \text{FreeQ}\{c, d, m, n\}, x]$
6633. $\text{Int}[(\text{Log}[(d_.)(x_)^{\text{m}_.}] * (\text{ArcTanh}[(c_.)(x_)^{\text{n}_.}] * (b_.) + (a_.))) / (x_), x_Symbol] \rightarrow \text{Simp}[a \text{Int}[\text{Log}[d*x^m] / x, x], x] + \text{Simp}[b \text{Int}[(\text{Log}[d*x^m] * \text{ArcTanh}[c*x^n]) / x, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x]$
6634. $\text{Int}[(\text{Log}[(d_.)(x_)^{\text{m}_.}] * (\text{ArcCoth}[(c_.)(x_)^{\text{n}_.}] * (b_.) + (a_.))) / (x_), x_Symbol] \rightarrow \text{Simp}[a \text{Int}[\text{Log}[d*x^m] / x, x], x] + \text{Simp}[b \text{Int}[(\text{Log}[d*x^m] * \text{ArcCoth}[c*x^n]) / x, x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x]$
6635. $\text{Int}[((a_.) + \text{ArcTanh}[(c_.)(x_)]*(b_.)) * ((d_.) + \text{Log}[(f_.) + (g_.)(x_)^2]) * (e_.), x_Symbol] \rightarrow \text{Simp}[x * (d + e*\text{Log}[f + g*x^2]) * (a + b*\text{ArcTanh}$

- $$[c*x]), x] + (-\text{Simp}[b*c \text{ Int}[x*((d + e*\text{Log}[f + g*x^2])/(1 - c^2*x^2))$$

$$, x], x] - \text{Simp}[2*e*g \text{ Int}[x^2*((a + b*\text{ArcTanh}[c*x])/(f + g*x^2)), x]$$

$$, x]) /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x]$$
6636.
$$\text{Int}[(a_.) + \text{ArcCoth}[(c_.)*(x_.)]*(b_.))*((d_.) + \text{Log}[(f_.) + (g_.)*(x_.)^2]*(e_.)), x_Symbol] \rightarrow \text{Simp}[x*(d + e*\text{Log}[f + g*x^2])*(a + b*\text{ArcCoth}[c*x]), x] + (-\text{Simp}[b*c \text{ Int}[x*((d + e*\text{Log}[f + g*x^2])/(1 - c^2*x^2))$$

$$, x], x] - \text{Simp}[2*e*g \text{ Int}[x^2*((a + b*\text{ArcCoth}[c*x])/(f + g*x^2)), x]$$

$$, x]) /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x]$$
6637.
$$\text{Int}[(\text{ArcTanh}[(c_.)*(x_.)]*\text{Log}[(f_.) + (g_.)*(x_.)^2])/(x_), x_Symbol] \rightarrow$$

$$\text{Simp}[(\text{Log}[f + g*x^2] - \text{Log}[1 - c*x] - \text{Log}[1 + c*x]) \text{ Int}[\text{ArcTanh}[c*x]$$

$$]/x, x], x] + (-\text{Simp}[1/2 \text{ Int}[\text{Log}[1 - c*x]^2/x, x], x] + \text{Simp}[1/2 \text{ Int}[\text{Log}[1 + c*x]^2/x, x], x]) /; \text{FreeQ}\{c, f, g\}, x] \&\& \text{EqQ}[c^2*f + g,$$

$$0]$$
6638.
$$\text{Int}[(\text{ArcCoth}[(c_.)*(x_.)]*\text{Log}[(f_.) + (g_.)*(x_.)^2])/(x_), x_Symbol] \rightarrow$$

$$\text{Simp}[(\text{Log}[f + g*x^2] - \text{Log}[(-c^2)*x^2] - \text{Log}[1 - 1/(c*x)] - \text{Log}[1 + 1/(c*x)]) \text{ Int}[\text{ArcCoth}[c*x]/x, x], x] + (\text{Int}[\text{Log}[(-c^2)*x^2]*(\text{ArcCoth}[c*x]/x), x] + \text{Simp}[1/2 \text{ Int}[\text{Log}[1 + 1/(c*x)]^2/x, x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[1 - 1/(c*x)]^2/x, x], x]) /; \text{FreeQ}\{c, f, g\}, x] \&\& \text{EqQ}[c^2*f + g, 0]$$
6639.
$$\text{Int}[(\text{Log}[(f_.) + (g_.)*(x_.)^2]*(\text{ArcTanh}[(c_.)*(x_.)]*(b_.) + (a_.)))/(x_), x_Symbol] \rightarrow \text{Simp}[a \text{ Int}[\text{Log}[f + g*x^2]/x, x], x] + \text{Simp}[b \text{ Int}[\text{Log}[f + g*x^2]*(\text{ArcTanh}[c*x]/x), x], x] /; \text{FreeQ}\{a, b, c, f, g\}, x]$$
6640.
$$\text{Int}[(\text{Log}[(f_.) + (g_.)*(x_.)^2]*(\text{ArcCoth}[(c_.)*(x_.)]*(b_.) + (a_.)))/(x_), x_Symbol] \rightarrow \text{Simp}[a \text{ Int}[\text{Log}[f + g*x^2]/x, x], x] + \text{Simp}[b \text{ Int}[\text{Log}[f + g*x^2]*(\text{ArcCoth}[c*x]/x), x], x] /; \text{FreeQ}\{a, b, c, f, g\}, x]$$
6641.
$$\text{Int}[(((a_.) + \text{ArcTanh}[(c_.)*(x_.)]*(b_.))*(\text{Log}[(f_.) + (g_.)*(x_.)^2]*(e_.) + (d_.)))/(x_), x_Symbol] \rightarrow \text{Simp}[d \text{ Int}[(a + b*\text{ArcTanh}[c*x])/x, x], x] + \text{Simp}[e \text{ Int}[\text{Log}[f + g*x^2]*((a + b*\text{ArcTanh}[c*x])/x), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g\}, x]$$

6642. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})]) \cdot (b_{\cdot}) \cdot (\text{Log}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})^2] \cdot (e_{\cdot}) + (d_{\cdot}))}{(x_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[d \text{ Int}[(a + b \cdot \text{ArcCoth}[c \cdot x])/x], x] + \text{Simp}[e \text{ Int}[\text{Log}[f + g \cdot x^2] \cdot ((a + b \cdot \text{ArcCoth}[c \cdot x])/x)], x] / ; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x]$
6643. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})]) \cdot (b_{\cdot}) \cdot ((d_{\cdot}) + \text{Log}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})^2] \cdot (e_{\cdot})) \cdot (x_{\cdot})^{(m_{\cdot})}}{x_{\text{Symbol}}] \rightarrow \text{Simp}[x^{(m+1)} \cdot (d + e \cdot \text{Log}[f + g \cdot x^2]) \cdot ((a + b \cdot \text{ArcTanh}[c \cdot x]) / (m + 1)), x] + (-\text{Simp}[b \cdot (c / (m + 1)) \text{ Int}[x^{(m+1)} \cdot ((d + e \cdot \text{Log}[f + g \cdot x^2]) / (1 - c^2 \cdot x^2))], x], x] - \text{Simp}[2 \cdot e \cdot (g / (m + 1)) \text{ Int}[x^{(m+2)} \cdot ((a + b \cdot \text{ArcTanh}[c \cdot x]) / (f + g \cdot x^2))], x], x]) / ; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{ILtQ}[m/2, 0]$
6644. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})]) \cdot (b_{\cdot}) \cdot ((d_{\cdot}) + \text{Log}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})^2] \cdot (e_{\cdot})) \cdot (x_{\cdot})^{(m_{\cdot})}}{x_{\text{Symbol}}] \rightarrow \text{Simp}[x^{(m+1)} \cdot (d + e \cdot \text{Log}[f + g \cdot x^2]) \cdot ((a + b \cdot \text{ArcCoth}[c \cdot x]) / (m + 1)), x] + (-\text{Simp}[b \cdot (c / (m + 1)) \text{ Int}[x^{(m+1)} \cdot ((d + e \cdot \text{Log}[f + g \cdot x^2]) / (1 - c^2 \cdot x^2))], x], x] - \text{Simp}[2 \cdot e \cdot (g / (m + 1)) \text{ Int}[x^{(m+2)} \cdot ((a + b \cdot \text{ArcCoth}[c \cdot x]) / (f + g \cdot x^2))], x], x]) / ; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{ILtQ}[m/2, 0]$
6645. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})]) \cdot (b_{\cdot}) \cdot ((d_{\cdot}) + \text{Log}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})^2] \cdot (e_{\cdot})) \cdot (x_{\cdot})^{(m_{\cdot})}}{x_{\text{Symbol}}] \rightarrow \text{With}[\{u = \text{IntHide}[x^m \cdot (d + e \cdot \text{Log}[f + g \cdot x^2])], x\}, \text{Simp}[(a + b \cdot \text{ArcTanh}[c \cdot x]) u, x] - \text{Simp}[b \cdot c \text{ Int}[\text{ExpandIntegrand}[u / (1 - c^2 \cdot x^2)], x], x], x] / ; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[(m + 1)/2, 0]$
6646. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot})(x_{\cdot})]) \cdot (b_{\cdot}) \cdot ((d_{\cdot}) + \text{Log}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})^2] \cdot (e_{\cdot})) \cdot (x_{\cdot})^{(m_{\cdot})}}{x_{\text{Symbol}}] \rightarrow \text{With}[\{u = \text{IntHide}[x^m \cdot (d + e \cdot \text{Log}[f + g \cdot x^2])], x\}, \text{Simp}[(a + b \cdot \text{ArcCoth}[c \cdot x]) u, x] - \text{Simp}[b \cdot c \text{ Int}[\text{ExpandIntegrand}[u / (1 - c^2 \cdot x^2)], x], x], x] / ; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IGtQ}[(m + 1)/2, 0]$
6647. $\text{Int}[\frac{((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot})(x_{\cdot})]) \cdot (b_{\cdot}) \cdot ((d_{\cdot}) + \text{Log}[(f_{\cdot}) + (g_{\cdot})(x_{\cdot})^2] \cdot (e_{\cdot})) \cdot (x_{\cdot})^{(m_{\cdot})}}{x_{\text{Symbol}}] \rightarrow \text{With}[\{u = \text{IntHide}[x^m \cdot (a + b \cdot \text{ArcTanh}[c \cdot x])], x\}, \text{Simp}[(d + e \cdot \text{Log}[f + g \cdot x^2]) u, x] - \text{Simp}[2 \cdot e \cdot g \text{ Int}[\text{ExpandIntegrand}[x \cdot (u / (f + g \cdot x^2))], x], x], x] / ; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[m] \&\& \text{NeQ}[m, -1]$

6648. $\text{Int}[\{(a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.)\}^2*\{(d_.) + \text{Log}[(f_.) + (g_.)*(x_)^2]*(e_.)\}*(x_)^{(m_.)}, x_Symbol] := \text{With}[\{u = \text{IntHide}[x^m*(a + b*\text{ArcCoth}[c*x]), x]\}, \text{Simp}[(d + e*\text{Log}[f + g*x^2]) u, x] - \text{Simp}[2*e*g \text{Int}[\text{ExpandIntegrand}[x*(u/(f + g*x^2)), x], x], x]] /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{IntegerQ}[m] \&\& \text{NeQ}[m, -1]$
6649. $\text{Int}[\{(a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.)\}^2*\{(d_.) + \text{Log}[(f_.) + (g_.)*(x_)^2]*(e_.)\}*(x_), x_Symbol] := \text{Simp}[(f + g*x^2)*(d + e*\text{Log}[f + g*x^2])*(\{(a + b*\text{ArcTanh}[c*x]\}^2/(2*g)), x] + (-\text{Simp}[e*x^2*(\{(a + b*\text{ArcTanh}[c*x]\}^2/2), x] + \text{Simp}[b/c \text{Int}[(d + e*\text{Log}[f + g*x^2])*(a + b*\text{ArcTanh}[c*x]), x], x] + \text{Simp}[b*c*e \text{Int}[x^2*(\{(a + b*\text{ArcTanh}[c*x]\})/(1 - c^2*x^2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[c^2*f + g, 0]$
6650. $\text{Int}[\{(a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.)\}^2*\{(d_.) + \text{Log}[(f_.) + (g_.)*(x_)^2]*(e_.)\}*(x_), x_Symbol] := \text{Simp}[(f + g*x^2)*(d + e*\text{Log}[f + g*x^2])*(\{(a + b*\text{ArcCoth}[c*x]\}^2/(2*g)), x] + (-\text{Simp}[e*x^2*(\{(a + b*\text{ArcCoth}[c*x]\}^2/2), x] + \text{Simp}[b/c \text{Int}[(d + e*\text{Log}[f + g*x^2])*(a + b*\text{ArcCoth}[c*x]), x], x] + \text{Simp}[b*c*e \text{Int}[x^2*(\{(a + b*\text{ArcCoth}[c*x]\})/(1 - c^2*x^2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f, g\}, x] \&\& \text{EqQ}[c^2*f + g, 0]$
6651. $\text{Int}[\{(a_.) + \text{ArcTanh}[(c_.)*(x_)]*(b_.)\}^{(p_.)}*(u_.), x_Symbol] := \text{Unintegrable}[u*(a + b*\text{ArcTanh}[c*x])^p, x] /; \text{FreeQ}[\{a, b, c, p\}, x] \&\& (\text{EqQ}[u, 1] \|\| \text{MatchQ}[u, \{(d_.) + (e_.)*x\}^{(q_.)} /; \text{FreeQ}[\{d, e, q\}, x]] \|\| \text{MatchQ}[u, \{(f_.)*x\}^{(m_.)}*\{(d_.) + (e_.)*x\}^{(q_.)} /; \text{FreeQ}[\{d, e, f, m, q\}, x]] \|\| \text{MatchQ}[u, \{(d_.) + (e_.)*x^2\}^{(q_.)} /; \text{FreeQ}[\{d, e, q\}, x]] \|\| \text{MatchQ}[u, \{(f_.)*x\}^{(m_.)}*\{(d_.) + (e_.)*x^2\}^{(q_.)} /; \text{FreeQ}[\{d, e, f, m, q\}, x]])$
6652. $\text{Int}[\{(a_.) + \text{ArcCoth}[(c_.)*(x_)]*(b_.)\}^{(p_.)}*(u_.), x_Symbol] := \text{Unintegrable}[u*(a + b*\text{ArcCoth}[c*x])^p, x] /; \text{FreeQ}[\{a, b, c, p\}, x] \&\& (\text{EqQ}[u, 1] \|\| \text{MatchQ}[u, \{(d_.) + (e_.)*x\}^{(q_.)} /; \text{FreeQ}[\{d, e, q\}, x]] \|\| \text{MatchQ}[u, \{(f_.)*x\}^{(m_.)}*\{(d_.) + (e_.)*x\}^{(q_.)} /; \text{FreeQ}[\{d, e, f, m, q\}, x]] \|\| \text{MatchQ}[u, \{(d_.) + (e_.)*x^2\}^{(q_.)} /; \text{FreeQ}[\{d, e, q\}, x]] \|\| \text{MatchQ}[u, \{(f_.)*x\}^{(m_.)}*\{(d_.) + (e_.)*x^2\}^{(q_.)} /; \text{FreeQ}[\{d, e, f, m, q\}, x]])$

6653. $\text{Int}[(a + \text{ArcTanh}[c + (d \cdot x)] \cdot b)^p, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b \cdot \text{ArcTanh}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
6654. $\text{Int}[(a + \text{ArcCoth}[c + (d \cdot x)] \cdot b)^p, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b \cdot \text{ArcCoth}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[p, 0]$
6655. $\text{Int}[(a + \text{ArcTanh}[c + (d \cdot x)] \cdot b)^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcTanh}[c + d \cdot x])^p, x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \ \&\& \ \text{!IGtQ}[p, 0]$
6656. $\text{Int}[(a + \text{ArcCoth}[c + (d \cdot x)] \cdot b)^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcCoth}[c + d \cdot x])^p, x] /; \text{FreeQ}[\{a, b, c, d, p\}, x] \ \&\& \ \text{!IGtQ}[p, 0]$
6657. $\text{Int}[(a + \text{ArcTanh}[c + (d \cdot x)] \cdot b)^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(f \cdot (x/d))^m \cdot (a + b \cdot \text{ArcTanh}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[d \cdot e - c \cdot f, 0] \ \&\& \ \text{IGtQ}[p, 0]$
6658. $\text{Int}[(a + \text{ArcCoth}[c + (d \cdot x)] \cdot b)^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(f \cdot (x/d))^m \cdot (a + b \cdot \text{ArcCoth}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \ \text{EqQ}[d \cdot e - c \cdot f, 0] \ \&\& \ \text{IGtQ}[p, 0]$
6659. $\text{Int}[(a + \text{ArcTanh}[c + (d \cdot x)] \cdot b)^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[(e + f \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcTanh}[c + d \cdot x])^p / (f \cdot (m + 1)), x] - \text{Simp}[b \cdot d \cdot (p / (f \cdot (m + 1))) \text{ Int}[(e + f \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcTanh}[c + d \cdot x])^{p-1} / (1 - (c + d \cdot x)^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{ILtQ}[m, -1]$
6660. $\text{Int}[(a + \text{ArcCoth}[c + (d \cdot x)] \cdot b)^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[(e + f \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcCoth}[c + d \cdot x])^p / (f \cdot (m + 1)), x] - \text{Simp}[b \cdot d \cdot (p / (f \cdot (m + 1))) \text{ Int}[(e + f \cdot x)^{m+1} \cdot (a + b \cdot \text{ArcCoth}[c + d \cdot x])^{p-1} / (1 - (c + d \cdot x)^2), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{IGtQ}[p, 0] \ \&\& \ \text{ILtQ}[m, -1]$

$Q[\{a, b, c, d, e, f\}, x] \ \&\& \text{IGtQ}[p, 0] \ \&\& \text{ILtQ}[m, -1]$

6661. $\text{Int}[\{(a_.) + \text{ArcTanh}[(c_.) + (d_.)*(x_)]*(b_.)\}^{(p_.)} * \{(e_.) + (f_.)*(x_)\}^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[1/d \ \text{Subst}[\text{Int}[\{(d*e - c*f)/d + f*(x/d)\}^m * (a + b*\text{ArcTanh}[x])^p, x], x, c + d*x], x] \ /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \text{IGtQ}[p, 0]$

6662. $\text{Int}[\{(a_.) + \text{ArcCoth}[(c_.) + (d_.)*(x_)]*(b_.)\}^{(p_.)} * \{(e_.) + (f_.)*(x_)\}^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[1/d \ \text{Subst}[\text{Int}[\{(d*e - c*f)/d + f*(x/d)\}^m * (a + b*\text{ArcCoth}[x])^p, x], x, c + d*x], x] \ /; \text{FreeQ}[\{a, b, c, d, e, f, m\}, x] \ \&\& \text{IGtQ}[p, 0]$

6663. $\text{Int}[\{(a_.) + \text{ArcTanh}[(c_.) + (d_.)*(x_)]*(b_.)\}^{(p_.)} * \{(e_.) + (f_.)*(x_)\}^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^m * (a + b*\text{ArcTanh}[c + d*x])^p, x] \ /; \text{FreeQ}[\{a, b, c, d, e, f, m, p\}, x] \ \&\& \ !\text{IGtQ}[p, 0]$

6664. $\text{Int}[\{(a_.) + \text{ArcCoth}[(c_.) + (d_.)*(x_)]*(b_.)\}^{(p_.)} * \{(e_.) + (f_.)*(x_)\}^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^m * (a + b*\text{ArcCoth}[c + d*x])^p, x] \ /; \text{FreeQ}[\{a, b, c, d, e, f, m, p\}, x] \ \&\& \ !\text{IGtQ}[p, 0]$

6665. $\text{Int}[\text{ArcTanh}[(c_.) + (d_.)*(x_)] / \{(e_.) + (f_.)*(x_)\}^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[1/2 \ \text{Int}[\text{Log}[1 + c + d*x] / (e + f*x^n), x], x] - \text{Simp}[1/2 \ \text{Int}[\text{Log}[1 - c - d*x] / (e + f*x^n), x], x] \ /; \text{FreeQ}[\{c, d, e, f\}, x] \ \&\& \ \text{RationalQ}[n]$

6666. $\text{Int}[\text{ArcCoth}[(c_.) + (d_.)*(x_)] / \{(e_.) + (f_.)*(x_)\}^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[1/2 \ \text{Int}[\text{Log}[(1 + c + d*x) / (c + d*x)] / (e + f*x^n), x], x] - \text{Simp}[1/2 \ \text{Int}[\text{Log}[(-1 + c + d*x) / (c + d*x)] / (e + f*x^n), x], x] \ /; \text{FreeQ}[\{c, d, e, f\}, x] \ \&\& \ \text{RationalQ}[n]$

6667. $\text{Int}[\text{ArcTanh}[(c_.) + (d_.)*(x_)] / \{(e_.) + (f_.)*(x_)\}^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrable}[\text{ArcTanh}[c + d*x] / (e + f*x^n), x] \ /; \text{FreeQ}[\{c, d, e, f, n\}, x] \ \&\& \ !\text{RationalQ}[n]$

6668. $\text{Int}[\text{ArcCoth}[(c_.) + (d_.)*(x_)] / \{(e_.) + (f_.)*(x_)\}^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrable}[\text{ArcCoth}[c + d*x] / (e + f*x^n), x] \ /; \text{FreeQ}[\{c, d, e, f, n\}, x]$

- , x] && !RationalQ[n]
6669. $\text{Int}[\left((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} \left((A_{\cdot}) + (B_{\cdot})(x_{\cdot}) + (C_{\cdot})(x_{\cdot})^2\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{1}{d} \text{Subst}\left[\text{Int}\left[\left(-\frac{C}{d^2} + \frac{C}{d^2}x^2\right)^q (a + b \text{ArcTanh}[x])^p, x\right], x, c + dx\right], x\right] /; \text{FreeQ}\{a, b, c, d, A, B, C, p, q\}, x\} \&\& \text{EqQ}[B(1 - c^2) + 2Ac*d, 0] \&\& \text{EqQ}[2c*C - B*d, 0]$
6670. $\text{Int}[\left((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} \left((A_{\cdot}) + (B_{\cdot})(x_{\cdot}) + (C_{\cdot})(x_{\cdot})^2\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{1}{d} \text{Subst}\left[\text{Int}\left[\left(\frac{C}{d^2} + \frac{C}{d^2}x^2\right)^q (a + b \text{ArcCoth}[x])^p, x\right], x, c + dx\right], x\right] /; \text{FreeQ}\{a, b, c, d, A, B, C, p, q\}, x\} \&\& \text{EqQ}[B(1 - c^2) + 2Ac*d, 0] \&\& \text{EqQ}[2c*C - B*d, 0]$
6671. $\text{Int}[\left((a_{\cdot}) + \text{ArcTanh}[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} \left((e_{\cdot}) + (f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((A_{\cdot}) + (B_{\cdot})(x_{\cdot}) + (C_{\cdot})(x_{\cdot})^2\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{1}{d} \text{Subst}\left[\text{Int}\left[\left(\frac{d*e - c*f}{d} + f*(x/d)\right)^m \left(-\frac{C}{d^2} + \frac{C}{d^2}x^2\right)^q (a + b \text{ArcTanh}[x])^p, x\right], x, c + dx\right], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, p, q\}, x\} \&\& \text{EqQ}[B(1 - c^2) + 2Ac*d, 0] \&\& \text{EqQ}[2c*C - B*d, 0]$
6672. $\text{Int}[\left((a_{\cdot}) + \text{ArcCoth}[(c_{\cdot}) + (d_{\cdot})(x_{\cdot})](b_{\cdot})\right)^{(p_{\cdot})} \left((e_{\cdot}) + (f_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})} \left((A_{\cdot}) + (B_{\cdot})(x_{\cdot}) + (C_{\cdot})(x_{\cdot})^2\right)^{(q_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Simp}\left[\frac{1}{d} \text{Subst}\left[\text{Int}\left[\left(\frac{d*e - c*f}{d} + f*(x/d)\right)^m \left(-\frac{C}{d^2} + \frac{C}{d^2}x^2\right)^q (a + b \text{ArcCoth}[x])^p, x\right], x, c + dx\right], x\right] /; \text{FreeQ}\{a, b, c, d, e, f, A, B, C, m, p, q\}, x\} \&\& \text{EqQ}[B(1 - c^2) + 2Ac*d, 0] \&\& \text{EqQ}[2c*C - B*d, 0]$
6673. $\text{Int}[E^{\text{ArcTanh}[(a_{\cdot})(x_{\cdot})]}(n_{\cdot}), x_{\text{Symbol}}] \rightarrow \text{Int}\left[\frac{(1 + ax)^{(n+1)/2}}{(1 - ax)^{(n-1)/2} \sqrt{1 - a^2x^2}}, x\right] /; \text{FreeQ}\{a, x\} \&\& \text{IntegerQ}\left[\frac{n-1}{2}\right]$
6674. $\text{Int}[E^{\text{ArcTanh}[(a_{\cdot})(x_{\cdot})]}(n_{\cdot}) \left((c_{\cdot})(x_{\cdot})\right)^{(m_{\cdot})}, x_{\text{Symbol}}] \rightarrow \text{Int}\left[\frac{(cx)^m (1 + ax)^{(n+1)/2}}{(1 - ax)^{(n-1)/2} \sqrt{1 - a^2x^2}}, x\right] /; \text{FreeQ}\{a, c, m\}, x\} \&\& \text{IntegerQ}\left[\frac{n-1}{2}\right]$

6675. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)]*(n_.)}, x_Symbol] \rightarrow \text{Int}[(1 + a*x)^{(n/2)}/(1 - a*x)^{(n/2)}, x] /; \text{FreeQ}[\{a, n\}, x] \ \&\& \ !\text{IntegerQ}[(n - 1)/2]$
6676. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)]*(n_.)*((c_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Int}[(c*x)^m*((1 + a*x)^{(n/2)}/(1 - a*x)^{(n/2)}), x] /; \text{FreeQ}[\{a, c, m, n\}, x] \ \&\& \ !\text{IntegerQ}[(n - 1)/2]$
6677. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)]*(n_.)*((c_.) + (d_.)(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[c^n \ \text{Int}[(c + d*x)^{(p - n)}*(1 - a^2*x^2)^{(n/2)}, x], x] /; \text{FreeQ}[\{a, c, d, p\}, x] \ \&\& \ \text{EqQ}[a*c + d, 0] \ \&\& \ \text{IntegerQ}[(n - 1)/2] \ \&\& \ \text{IntegerQ}[2*p]$
6678. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)]*(n_.)*((c_.) + (d_.)(x_))^{(p_.)*((e_.) + (f_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[c^n \ \text{Int}[(e + f*x)^m*(c + d*x)^{(p - n)}*(1 - a^2*x^2)^{(n/2)}, x], x] /; \text{FreeQ}[\{a, c, d, e, f, m, p\}, x] \ \&\& \ \text{EqQ}[a*c + d, 0] \ \&\& \ \text{IntegerQ}[(n - 1)/2] \ \&\& \ (\text{IntegerQ}[p] \ || \ \text{EqQ}[p, n/2]) \ || \ \text{EqQ}[p - n/2 - 1, 0]) \ \&\& \ \text{IntegerQ}[2*p]$
6679. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)]*(n_.)*(u_.)*((c_.) + (d_.)(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[c^p \ \text{Int}[u*(1 + d*(x/c))^p*((1 + a*x)^{(n/2)}/(1 - a*x)^{(n/2)}), x], x] /; \text{FreeQ}[\{a, c, d, n, p\}, x] \ \&\& \ \text{EqQ}[a^2*c^2 - d^2, 0] \ \&\& \ (\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0])$
6680. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)]*(n_.)*(u_.)*((c_.) + (d_.)(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Int}[u*(c + d*x)^p*((1 + a*x)^{(n/2)}/(1 - a*x)^{(n/2)}), x] /; \text{FreeQ}[\{a, c, d, n, p\}, x] \ \&\& \ \text{EqQ}[a^2*c^2 - d^2, 0] \ \&\& \ !(\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0])$
6681. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)]*(n_.)*(u_.)*((c_.) + (d_.)/(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[d^p \ \text{Int}[u*(1 + c*(x/d))^p*(E^{(n*\text{ArcTanh}[a*x])/x^p}), x], x] /; \text{FreeQ}[\{a, c, d, n\}, x] \ \&\& \ \text{EqQ}[c^2 - a^2*d^2, 0] \ \&\& \ \text{IntegerQ}[p]$
6682. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)]*(n_.)*(u_.)*((c_.) + (d_.)/(x_))^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(-1)^{(n/2)}*c^p \ \text{Int}[u*(1 + d/(c*x))^p*((1 + 1/(a*x))^{(n/2)}/(1 - 1/(a*x))^{(n/2)}), x], x] /; \text{FreeQ}[\{a, c, d, p\}, x] \ \&\& \ \text{EqQ}[c^2 -$

- $a^2d^2, 0] \&\& !\text{IntegerQ}[p] \&\& \text{IntegerQ}[n/2] \&\& \text{GtQ}[c, 0]$
6683. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}(u_.)((c_.) + (d_.)/(x_.))^p, x_Symbol] \rightarrow \text{Int}[u*(c + d/x)^p*((1 + a*x)^{n/2}/(1 - a*x)^{n/2}), x] /; \text{FreeQ}[\{a, c, d, p\}, x] \&\& \text{EqQ}[c^2 - a^2d^2, 0] \&\& !\text{IntegerQ}[p] \&\& \text{IntegerQ}[n/2] \&\& !\text{GtQ}[c, 0]$
6684. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}(u_.)((c_.) + (d_.)/(x_.))^p, x_Symbol] \rightarrow \text{Simp}[x^p*((c + d/x)^p/(1 + c*(x/d))^p) \text{Int}[u*(1 + c*(x/d))^p*(E^{n*\text{ArcTanh}[a*x]}/x^p), x], x] /; \text{FreeQ}[\{a, c, d, n, p\}, x] \&\& \text{EqQ}[c^2 - a^2d^2, 0] \&\& !\text{IntegerQ}[p]$
6685. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_.) + (d_.)(x_)^2)^{3/2}, x_Symbol] \rightarrow \text{Simp}[(n - a*x)*(E^{n*\text{ArcTanh}[a*x]}/(a*c*(n^2 - 1)*\text{Sqrt}[c + d*x^2])), x] /; \text{FreeQ}[\{a, c, d, n\}, x] \&\& \text{EqQ}[a^2*c + d, 0] \&\& !\text{IntegerQ}[n]$
6686. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_.) + (d_.)(x_)^2)^p, x_Symbol] \rightarrow \text{Simp}[(n + 2*a*(p + 1)*x)*(c + d*x^2)^{p + 1}*(E^{n*\text{ArcTanh}[a*x]}/(a*c*(n^2 - 4*(p + 1)^2))), x] - \text{Simp}[2*(p + 1)*((2*p + 3)/(c*(n^2 - 4*(p + 1)^2))) \text{Int}[(c + d*x^2)^{p + 1}*E^{n*\text{ArcTanh}[a*x]}, x], x] /; \text{FreeQ}[\{a, c, d, n\}, x] \&\& \text{EqQ}[a^2*c + d, 0] \&\& \text{LtQ}[p, -1] \&\& !\text{IntegerQ}[n] \&\& \text{NeQ}[n^2 - 4*(p + 1)^2, 0] \&\& \text{IntegerQ}[2*p]$
6687. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_.) + (d_.)(x_)^2), x_Symbol] \rightarrow \text{Simp}[E^{n*\text{ArcTanh}[a*x]}/(a*c*n), x] /; \text{FreeQ}[\{a, c, d, n\}, x] \&\& \text{EqQ}[a^2*c + d, 0] \&\& !\text{IntegerQ}[n/2]$
6688. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_.) + (d_.)(x_)^2)^{p_.}, x_Symbol] \rightarrow \text{Simp}[c^p \text{Int}[(1 - a^2*x^2)^{p - n/2}*(1 + a*x)^n, x], x] /; \text{FreeQ}[\{a, c, d, p\}, x] \&\& \text{EqQ}[a^2*c + d, 0] \&\& \text{IntegerQ}[p] \&\& \text{IGtQ}[(n + 1)/2, 0] \&\& !\text{IntegerQ}[p - n/2]$
6689. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_.) + (d_.)(x_)^2)^{p_.}, x_Symbol] \rightarrow \text{Simp}[c^p \text{Int}[(1 - a^2*x^2)^{p + n/2}/(1 - a*x)^n, x], x] /; \text{FreeQ}[\{a, c, d, p\}, x] \&\& \text{EqQ}[a^2*c + d, 0] \&\& \text{IntegerQ}[p] \&\& \text{ILtQ}[(n - 1)/2, 0] \&\& !\text{IntegerQ}[p - n/2]$

6690. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_) + (d_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[c^p \text{Int}[(1 - a*x)^{(p - n/2)}(1 + a*x)^{(p + n/2)}, x], x] / ; \text{FreeQ}[\{a, c, d, n, p\}, x] \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ (\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0])$
6691. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_) + (d_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[c^{(n/2)} \text{Int}[(c + d*x^2)^{(p - n/2)}(1 + a*x)^n, x], x] / ; \text{FreeQ}[\{a, c, d, p\}, x] \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ !(\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0]) \ \&\& \ \text{IGtQ}[n/2, 0]$
6692. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_) + (d_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/c^{(n/2)} \text{Int}[(c + d*x^2)^{(p + n/2)}(1 - a*x)^{-n}, x], x] / ; \text{FreeQ}[\{a, c, d, p\}, x] \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ !(\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0]) \ \&\& \ \text{ILtQ}[n/2, 0]$
6693. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}((c_) + (d_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[p]}((c + d*x^2)^{\text{FracPart}[p]}(1 - a^2*x^2)^{-\text{FracPart}[p]}) \text{Int}[(1 - a^2*x^2)^p E^{(n*\text{ArcTanh}[a*x])}, x], x] / ; \text{FreeQ}[\{a, c, d, n, p\}, x] \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ !(\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0])$
6694. $\text{Int}[(E^{\text{ArcTanh}[(a_.)(x_)](n_.)}(x_))/((c_) + (d_.)(x_)^2)^{(3/2)}, x_Symbol] \rightarrow \text{Simp}[(1 - a*n*x)(E^{(n*\text{ArcTanh}[a*x])})/(d*(n^2 - 1)*\text{Sqrt}[c + d*x^2]), x] / ; \text{FreeQ}[\{a, c, d, n\}, x] \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ !\text{IntegerQ}[n]$
6695. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}(x_)*((c_) + (d_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(c + d*x^2)^{(p + 1)}(E^{(n*\text{ArcTanh}[a*x])})/(2*d*(p + 1)), x] - \text{Simp}[a*c*(n/(2*d*(p + 1))) \text{Int}[(c + d*x^2)^p E^{(n*\text{ArcTanh}[a*x])}, x], x] / ; \text{FreeQ}[\{a, c, d, n\}, x] \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ !\text{IntegerQ}[n] \ \&\& \ \text{IntegerQ}[2*p]$
6696. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}(x_)^2*((c_) + (d_.)(x_)^2)^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(1 - a*n*x)(c + d*x^2)^{(p + 1)}(E^{(n*\text{ArcTanh}[a*x])})/(a*d*n*(n^2 - 1)), x] / ; \text{FreeQ}[\{a, c, d, n\}, x] \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ \text{EqQ}[n^2 + 2*(p + 1), 0] \ \&\& \ !\text{IntegerQ}[n]$

6697. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_)}(x_)^2((c_) + (d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(-n + 2(p + 1)a*x)(c + d*x^2)^{(p + 1)}(E^{n\text{ArcTanh}[a*x]})/(a*d*(n^2 - 4*(p + 1)^2)), x] + \text{Simp}[(n^2 + 2*(p + 1))/(d*(n^2 - 4*(p + 1)^2)) \text{Int}[(c + d*x^2)^{(p + 1)}E^{n\text{ArcTanh}[a*x]}, x], x] /; \text{FreeQ}\{a, c, d, n\}, x\} \&\& \text{EqQ}[a^2*c + d, 0] \&\& \text{LtQ}[p, -1] \&\& !\text{IntegerQ}[n] \&\& \text{NeQ}[n^2 - 4*(p + 1)^2, 0] \&\& \text{IntegerQ}[2*p]$
6698. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_)}(x_)^{(m_)}((c_) + (d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^p \text{Int}[x^m*(1 - a^2*x^2)^{(p - n/2)}(1 + a*x)^n, x], x] /; \text{FreeQ}\{a, c, d, m, p\}, x\} \&\& \text{EqQ}[a^2*c + d, 0] \&\& (\text{IntegerQ}[p] \parallel \text{GtQ}[c, 0]) \&\& \text{IGtQ}[(n + 1)/2, 0] \&\& !\text{IntegerQ}[p - n/2]$
6699. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_)}(x_)^{(m_)}((c_) + (d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^p \text{Int}[x^m*((1 - a^2*x^2)^{(p + n/2)})/(1 - a*x)^n, x], x] /; \text{FreeQ}\{a, c, d, m, p\}, x\} \&\& \text{EqQ}[a^2*c + d, 0] \&\& (\text{IntegerQ}[p] \parallel \text{GtQ}[c, 0]) \&\& \text{ILtQ}[(n - 1)/2, 0] \&\& !\text{IntegerQ}[p - n/2]$
6700. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_)}(x_)^{(m_)}((c_) + (d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^p \text{Int}[x^m*(1 - a*x)^{(p - n/2)}(1 + a*x)^{(p + n/2)}, x], x] /; \text{FreeQ}\{a, c, d, m, n, p\}, x\} \&\& \text{EqQ}[a^2*c + d, 0] \&\& (\text{IntegerQ}[p] \parallel \text{GtQ}[c, 0])$
6701. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_)}(x_)^{(m_)}((c_) + (d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^{(n/2)} \text{Int}[x^m*(c + d*x^2)^{(p - n/2)}(1 + a*x)^n, x], x] /; \text{FreeQ}\{a, c, d, m, p\}, x\} \&\& \text{EqQ}[a^2*c + d, 0] \&\& !(\text{IntegerQ}[p] \parallel \text{GtQ}[c, 0]) \&\& \text{IGtQ}[n/2, 0]$
6702. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_)}(x_)^{(m_)}((c_) + (d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[1/c^{(n/2)} \text{Int}[x^m*((c + d*x^2)^{(p + n/2)})/(1 - a*x)^n, x], x] /; \text{FreeQ}\{a, c, d, m, p\}, x\} \&\& \text{EqQ}[a^2*c + d, 0] \&\& !(\text{IntegerQ}[p] \parallel \text{GtQ}[c, 0]) \&\& \text{ILtQ}[n/2, 0]$
6703. $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_)}(x_)^{(m_)}((c_) + (d_)(x_)^2)^{(p_)}, x_Symbol] \rightarrow \text{Simp}[c^{\text{IntPart}[p]}*((c + d*x^2)^{\text{FracPart}[p]}/(1 - a^2*x^2)^{\text{FracPart}[p]}) \text{Int}[x^m*(1 - a^2*x^2)^p E^{n\text{ArcTanh}[a*x]}, x], x] /$

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; FreeQ[{a, c, d, m, n, p}, x] && EqQ[a^2*c + d, 0] && !(IntegerQ[p]
|| GtQ[c, 0]) && !IntegerQ[n/2]

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6704. `Int[E^(ArcTanh[(a_.)*(x_.)]*(n_.))*(u_.)*((c_) + (d_.)*(x_)^2)^(p_.), x_Symbol] :> Simp[c^p Int[u*(1 - a*x)^(p - n/2)*(1 + a*x)^(p + n/2), x], x] /;` `FreeQ[{a, c, d, n, p}, x] && EqQ[a^2*c + d, 0] && (IntegerQ[p] || GtQ[c, 0])`
6705. `Int[E^(ArcTanh[(a_.)*(x_.)]*(n_.))*(u_.)*((c_) + (d_.)*(x_)^2)^(p_), x_Symbol] :> Simp[c^IntPart[p]*((c + d*x^2)^FracPart[p]/((1 - a*x)^FracPart[p]*(1 + a*x)^FracPart[p])) Int[u*(1 - a*x)^(p - n/2)*(1 + a*x)^(p + n/2), x], x] /;` `FreeQ[{a, c, d, n, p}, x] && EqQ[a^2*c + d, 0] && !(IntegerQ[p] || GtQ[c, 0]) && IntegerQ[n/2]`
6706. `Int[E^(ArcTanh[(a_.)*(x_.)]*(n_.))*(u_.)*((c_) + (d_.)*(x_)^2)^(p_), x_Symbol] :> Simp[c^IntPart[p]*((c + d*x^2)^FracPart[p]/(1 - a^2*x^2)^FracPart[p]) Int[u*(1 - a^2*x^2)^p*E^(n*ArcTanh[a*x]), x], x] /;` `FreeQ[{a, c, d, n, p}, x] && EqQ[a^2*c + d, 0] && !(IntegerQ[p] || GtQ[c, 0]) && !IntegerQ[n/2]`
6707. `Int[E^(ArcTanh[(a_.)*(x_.)]*(n_.))*(u_.)*((c_) + (d_.)/(x_)^2)^(p_.), x_Symbol] :> Simp[d^p Int[(u/x^(2*p))*(1 - a^2*x^2)^p*E^(n*ArcTanh[a*x]), x], x] /;` `FreeQ[{a, c, d, n}, x] && EqQ[c + a^2*d, 0] && IntegerQ[p]`
6708. `Int[E^(ArcTanh[(a_.)*(x_.)]*(n_.))*(u_.)*((c_) + (d_.)/(x_)^2)^(p_), x_Symbol] :> Simp[c^p Int[u*(1 - 1/(a*x))^p*(1 + 1/(a*x))^p*E^(n*ArcTanh[a*x]), x], x] /;` `FreeQ[{a, c, d, p}, x] && EqQ[c + a^2*d, 0] && !IntegerQ[p] && IntegerQ[n/2] && GtQ[c, 0]`
6709. `Int[E^(ArcTanh[(a_.)*(x_.)]*(n_.))*(u_.)*((c_) + (d_.)/(x_)^2)^(p_), x_Symbol] :> Simp[x^(2*p)*((c + d/x^2)^p/(1 - a^2*x^2)^p) Int[u*((1 + a*x)^n/(x^(2*p)*(1 - a^2*x^2)^(n/2 - p))), x], x] /;` `FreeQ[{a, c, d, p}, x] && EqQ[c + a^2*d, 0] && !IntegerQ[p] && IntegerQ[n/2] && !GtQ[c, 0]`

6710.  $\text{Int}[E^{\text{ArcTanh}[(a_.)(x_)](n_.)}(u_.)((c_) + (d_.)/(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[x^{(2p)}((c + d/x^2)^p/(1 - a^2x^2)^p) \text{Int}[(u/x^{(2p)}) * (1 - a^2x^2)^p E^{(n \text{ArcTanh}[a*x])}], x], x] /;$   $\text{FreeQ}\{a, c, d, n, p, x\}$  &&  $\text{EqQ}[c + a^2d, 0]$  &&  $\text{IntegerQ}[p]$  &&  $\text{IntegerQ}[n/2]$
6711.  $\text{Int}[E^{\text{ArcTanh}[(c_.)((a_) + (b_.)(x_)](n_.)}, x\_Symbol] \rightarrow \text{Int}[(1 + a*c + b*c*x)^{(n/2)} / (1 - a*c - b*c*x)^{(n/2)}, x] /;$   $\text{FreeQ}\{a, b, c, n, x\}$
6712.  $\text{Int}[E^{\text{ArcTanh}[(c_.)((a_) + (b_.)(x_)](n_.)}(x_)^{(m_)}, x\_Symbol] \rightarrow \text{Simp}[4/(n*b^{(m+1)}*c^{(m+1)}) \text{Subst}[\text{Int}[x^{(2/n)}*((-1 - a*c + (1 - a*c)*x^{(2/n)})^m / (1 + x^{(2/n)})^{(m+2)}), x], x, (1 + c*(a + b*x))^{(n/2)} / (1 - c*(a + b*x))^{(n/2)}], x] /;$   $\text{FreeQ}\{a, b, c, x\}$  &&  $\text{ILtQ}[m, 0]$  &&  $\text{LtQ}[-1, n, 1]$
6713.  $\text{Int}[E^{\text{ArcTanh}[(c_.)((a_) + (b_.)(x_)](n_.)}((d_.) + (e_.)(x_))^{(m_)}, x\_Symbol] \rightarrow \text{Int}[(d + e*x)^m * ((1 + a*c + b*c*x)^{(n/2)} / (1 - a*c - b*c*x)^{(n/2)}), x] /;$   $\text{FreeQ}\{a, b, c, d, e, m, n, x\}$
6714.  $\text{Int}[E^{\text{ArcTanh}[(a_) + (b_.)(x_)](n_.)}(u_.)((c_) + (d_.)(x_) + (e_.)(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(c/(1 - a^2))^p \text{Int}[u*(1 - a - b*x)^{(p - n/2)} * (1 + a + b*x)^{(p + n/2)}, x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, n, p, x\}$  &&  $\text{EqQ}[b*d - 2*a*e, 0]$  &&  $\text{EqQ}[b^2*c + e*(1 - a^2), 0]$  &&  $(\text{IntegerQ}[p] \mid \mid \text{GtQ}[c/(1 - a^2), 0])$
6715.  $\text{Int}[E^{\text{ArcTanh}[(a_) + (b_.)(x_)](n_.)}(u_.)((c_) + (d_.)(x_) + (e_.)(x_)^2)^{(p_)}, x\_Symbol] \rightarrow \text{Simp}[(c + d*x + e*x^2)^p / (1 - a^2 - 2*a*b*x - b^2*x^2)^p \text{Int}[u*(1 - a^2 - 2*a*b*x - b^2*x^2)^p E^{(n \text{ArcTanh}[a*x])}], x], x] /;$   $\text{FreeQ}\{a, b, c, d, e, n, p, x\}$  &&  $\text{EqQ}[b*d - 2*a*e, 0]$  &&  $\text{EqQ}[b^2*c + e*(1 - a^2), 0]$  &&  $(\text{IntegerQ}[p] \mid \mid \text{GtQ}[c/(1 - a^2), 0])$
6716.  $\text{Int}[E^{\text{ArcTanh}[(c_.)/((a_.) + (b_.)(x_)](n_.)}(u_.), x\_Symbol] \rightarrow \text{Int}[u * E^{(n \text{ArcCoth}[a/c + b*(x/c)])}, x] /;$   $\text{FreeQ}\{a, b, c, n, x\}$

6717.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}(u\_), x\_Symbol] \rightarrow \text{Simp}[(-1)^{(n/2)} \text{Int}[u E^{n \text{ArcTanh}[a x]}, x], x] /; \text{FreeQ}[a, x] \ \&\& \ \text{IntegerQ}[n/2]$
6718.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 + x/a)^{(n+1)/2} / (x^2(1 - x/a)^{(n-1)/2}) \text{Sqrt}[1 - x^2/a^2], x], x, 1/x] /; \text{FreeQ}[a, x] \ \&\& \ \text{IntegerQ}[(n-1)/2]$
6719.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}(x\_)^{(m\_)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 + x/a)^{(n+1)/2} / (x^{(m+2)}(1 - x/a)^{(n-1)/2}) \text{Sqrt}[1 - x^2/a^2], x], x, 1/x] /; \text{FreeQ}[a, x] \ \&\& \ \text{IntegerQ}[(n-1)/2] \ \&\& \ \text{IntegerQ}[m]$
6720.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 + x/a)^{(n/2)} / (x^2(1 - x/a)^{(n/2)})], x], x, 1/x] /; \text{FreeQ}[\{a, n\}, x] \ \&\& \ !\text{IntegerQ}[n]$
6721.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}(x\_)^{(m\_)}, x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(1 + x/a)^{(n/2)} / (x^{(m+2)}(1 - x/a)^{(n/2)})], x], x, 1/x] /; \text{FreeQ}[\{a, n\}, x] \ \&\& \ !\text{IntegerQ}[n] \ \&\& \ \text{IntegerQ}[m]$
6722.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}((c\_)(x\_))^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[(-c x)^m (1/x)^m \text{Subst}[\text{Int}[(1 + x/a)^{(n+1)/2} / (x^{(m+2)}(1 - x/a)^{(n-1)/2}) \text{Sqrt}[1 - x^2/a^2], x], x, 1/x], x] /; \text{FreeQ}[\{a, c, m\}, x] \ \&\& \ \text{IntegerQ}[(n-1)/2] \ \&\& \ !\text{IntegerQ}[m]$
6723.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}((c\_)(x\_))^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[(-c x)^m (1/x)^m \text{Subst}[\text{Int}[(1 + x/a)^{(n/2)} / (x^{(m+2)}(1 - x/a)^{(n/2)})], x], x, 1/x], x] /; \text{FreeQ}[\{a, c, m, n\}, x] \ \&\& \ !\text{IntegerQ}[n] \ \&\& \ !\text{IntegerQ}[m]$
6724.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}((c\_)(x\_))^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[-d^n \text{Subst}[\text{Int}[(d + c x)^{(p-n)} ((1 - x^2/a^2)^{(n/2)}) / x^{(p+2)}], x], x, 1/x], x] /; \text{FreeQ}[\{a, c, d\}, x] \ \&\& \ \text{EqQ}[a c + d, 0] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[n]$
6725.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}((c\_)(x\_))^{(p\_)}, x\_Symbol] \rightarrow \text{Simp}[-d^p \text{Subst}[\text{Int}[(1 + c(x/d))^p ((1 + x/a)^{(n/2)}) / x^{(p+2)}], x], x, 1/x], x] /; \text{FreeQ}[\{a, c, d\}, x] \ \&\& \ \text{EqQ}[a c + d, 0] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[n]$

- $$\int \frac{1}{(1 - x/a)^{n/2}} dx, x, 1/x, x \int; \text{FreeQ}\{a, c, d, n, p\}, x \ \&\& \ \text{EqQ}[a^2c^2 - d^2, 0] \ \&\& \ \text{IntegerQ}[p]$$
6726.  $\text{Int}[E^{\text{ArcCoth}[a \cdot x]^n} \cdot ((c + d \cdot x)^p), x\_Symbol]$   

$$\rightarrow \text{Simp}[(1 + a \cdot x) \cdot (c + d \cdot x)^p \cdot (E^{n \cdot \text{ArcCoth}[a \cdot x]} / (a \cdot (p + 1))), x] \int;$$

$$\text{FreeQ}\{a, c, d, n, p\}, x \ \&\& \ \text{EqQ}[a \cdot c + d, 0] \ \&\& \ \text{!IntegerQ}[p] \ \&\& \ \text{EqQ}[p, n/2]$$
6727.  $\text{Int}[E^{\text{ArcCoth}[a \cdot x]^n} \cdot ((c + d \cdot x)^p), x\_Symbol]$   

$$\rightarrow \text{Simp}[(-1/x)^p \cdot ((c + d \cdot x)^p / (1 + c/(d \cdot x))^p) \text{Subst}[\text{Int}[(1 + c \cdot (x/d))^p \cdot ((1 + x/a)^{n/2} / x^{p+2})] / (1 - x/a)^{n/2}, x], x, 1/x, x] \int;$$

$$\text{FreeQ}\{a, c, d, n, p\}, x \ \&\& \ \text{EqQ}[a^2c^2 - d^2, 0] \ \&\& \ \text{!IntegerQ}[p]$$
6728.  $\text{Int}[E^{\text{ArcCoth}[a \cdot x]^n} \cdot (x^m) \cdot ((c + d \cdot x)^p), x\_Symbol]$   

$$\rightarrow \text{Simp}[-d^n \text{Subst}[\text{Int}[(d + c \cdot x)^{p-n} \cdot ((1 - x^2/a^2)^{n/2} / x^{m+p+2})], x], x, 1/x, x] \int; \text{FreeQ}\{a, c, d\}, x \ \&\& \ \text{EqQ}[a \cdot c + d, 0] \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{IntegerQ}[m]$$
6729.  $\text{Int}[E^{\text{ArcCoth}[a \cdot x]^n} \cdot ((e \cdot x)^m) \cdot ((c + d \cdot x)^p), x\_Symbol]$   

$$\rightarrow \text{Simp}[(-d^p) \cdot (e \cdot x)^m \cdot (1/x)^m \text{Subst}[\text{Int}[(1 + c \cdot (x/d))^p \cdot ((1 + x/a)^{n/2} / x^{m+p+2})] / (1 - x/a)^{n/2}, x], x, 1/x, x] \int; \text{FreeQ}\{a, c, d, e, m, n\}, x \ \&\& \ \text{EqQ}[a^2c^2 - d^2, 0] \ \&\& \ \text{IntegerQ}[p]$$
6730.  $\text{Int}[E^{\text{ArcCoth}[a \cdot x]^n} \cdot ((e \cdot x)^m) \cdot ((c + d \cdot x)^p), x\_Symbol]$   

$$\rightarrow \text{Simp}[(-e \cdot x)^m \cdot (1/x)^{m+p} \cdot ((c + d \cdot x)^p / (1 + c/(d \cdot x))^p) \text{Subst}[\text{Int}[(1 + c \cdot (x/d))^p \cdot ((1 + x/a)^{n/2} / x^{m+p+2})] / (1 - x/a)^{n/2}, x], x, 1/x, x] \int; \text{FreeQ}\{a, c, d, e, m, n, p\}, x \ \&\& \ \text{EqQ}[a^2c^2 - d^2, 0] \ \&\& \ \text{!IntegerQ}[p]$$
6731.  $\text{Int}[E^{\text{ArcCoth}[a \cdot x]^n} \cdot ((c + d \cdot x) / (x))^p, x\_Symbol]$   

$$\rightarrow \text{Simp}[-c^n \text{Subst}[\text{Int}[(c + d \cdot x)^{p-n} \cdot ((1 - x^2/a^2)^{n/2} / x^2)], x], x, 1/x, x] \int; \text{FreeQ}\{a, c, d, p\}, x \ \&\& \ \text{EqQ}[c + a \cdot d, 0] \ \&\& \ \text{IntegerQ}[(n - 1)/2] \ \&\& \ \text{IntegerQ}[2 \cdot p]$$

6732.  $\text{Int}[E^{\text{ArcCoth}[(a_.)(x_)](n_.)}((c_) + (d_.)/(x_))^{\text{p_.}}, x\_Symbol]$   
 $\text{:> Simp}[-c^p \text{ Subst}[\text{Int}[(1 + d*(x/c))^p((1 + x/a)^{\text{n}/2})/(x^2*(1 - x/a)^{\text{n}/2})], x], x, 1/x], x] /;$   $\text{FreeQ}\{a, c, d, n, p\}, x\} \ \&\& \ \text{EqQ}[c^2 - a^2*d^2, 0] \ \&\& \ !\text{IntegerQ}[\text{n}/2] \ \&\& \ (\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0])$
6733.  $\text{Int}[E^{\text{ArcCoth}[(a_.)(x_)](n_.)}((c_) + (d_.)/(x_))^{\text{p_.}}(x_)^{\text{m_.}}, x\_Symbol]$   
 $\text{:> Simp}[-c^n \text{ Subst}[\text{Int}[(c + d*x)^{\text{p} - \text{n}}((1 - x^2/a^2)^{\text{n}/2})/x^{\text{m} + 2}], x], x, 1/x], x] /;$   $\text{FreeQ}\{a, c, d, p\}, x\} \ \&\& \ \text{EqQ}[c + a*d, 0] \ \&\& \ \text{IntegerQ}[(\text{n} - 1)/2] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{IntegerQ}[2*p]$
6734.  $\text{Int}[E^{\text{ArcCoth}[(a_.)(x_)](n_.)}((c_) + (d_.)/(x_))^{\text{p_.}}(x_)^{\text{m_.}}, x\_Symbol]$   
 $\text{:> Simp}[-c^p \text{ Subst}[\text{Int}[(1 + d*(x/c))^p((1 + x/a)^{\text{n}/2})/(x^{\text{m} + 2}*(1 - x/a)^{\text{n}/2})], x], x, 1/x], x] /;$   $\text{FreeQ}\{a, c, d, n, p\}, x\} \ \&\& \ \text{EqQ}[c^2 - a^2*d^2, 0] \ \&\& \ !\text{IntegerQ}[\text{n}/2] \ \&\& \ (\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0]) \ \&\& \ \text{IntegerQ}[m]$
6735.  $\text{Int}[E^{\text{ArcCoth}[(a_.)(x_)](n_.)}((c_) + (d_.)/(x_))^{\text{p_.}}(x_)^{\text{m_.}}, x\_Symbol]$   
 $\text{:> Simp}[(c^p)*x^m*(1/x)^m \text{ Subst}[\text{Int}[(1 + d*(x/c))^p((1 + x/a)^{\text{n}/2})/(x^{\text{m} + 2}*(1 - x/a)^{\text{n}/2})], x], x, 1/x], x] /;$   $\text{FreeQ}\{a, c, d, m, n, p\}, x\} \ \&\& \ \text{EqQ}[c^2 - a^2*d^2, 0] \ \&\& \ !\text{IntegerQ}[\text{n}/2] \ \&\& \ (\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0]) \ \&\& \ !\text{IntegerQ}[m]$
6736.  $\text{Int}[E^{\text{ArcCoth}[(a_.)(x_)](n_.)}(u_.)((c_) + (d_.)/(x_))^{\text{p_.}}, x\_Symbol]$   
 $\text{:> Simp}[(c + d/x)^p/(1 + d/(c*x))^p \text{ Int}[u*(1 + d/(c*x))^p E^{\text{n}*\text{ArcCoth}[a*x]}, x], x] /;$   $\text{FreeQ}\{a, c, d, n, p\}, x\} \ \&\& \ \text{EqQ}[c^2 - a^2*d^2, 0] \ \&\& \ !\text{IntegerQ}[\text{n}/2] \ \&\& \ !(\text{IntegerQ}[p] \ || \ \text{GtQ}[c, 0])$
6737.  $\text{Int}[E^{\text{ArcCoth}[(a_.)(x_)](n_.)}((c_) + (d_.)(x_)^2), x\_Symbol]$   
 $\text{:> Simp}[E^{\text{n}*\text{ArcCoth}[a*x]}/(a*c*n), x] /;$   $\text{FreeQ}\{a, c, d, n\}, x\} \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ !\text{IntegerQ}[\text{n}/2]$
6738.  $\text{Int}[E^{\text{ArcCoth}[(a_.)(x_)](n_.)}((c_) + (d_.)(x_)^2)^{3/2}, x\_Symbol]$   
 $\text{:> Simp}[(\text{n} - a*x)*(E^{\text{n}*\text{ArcCoth}[a*x]})/(a*c*(\text{n}^2 - 1)*\text{Sqrt}[c + d*x^2]), x] /;$   $\text{FreeQ}\{a, c, d, n\}, x\} \ \&\& \ \text{EqQ}[a^2*c + d, 0] \ \&\& \ !\text{IntegerQ}[n]$

6739.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}((c\_)+(d\_)(x\_)^2)^{(p\_)}, x\_Symbol]$   $\rightarrow \text{Simp}[(n+2a(p+1)x)(c+d x^2)^{(p+1)}(E^{n \text{ArcCoth}[a x]})/(a^2 c(n^2-4(p+1)^2))], x] - \text{Simp}[2(p+1)((2p+3)/(c(n^2-4(p+1)^2))) \text{Int}[(c+d x^2)^{(p+1)}E^{n \text{ArcCoth}[a x]}, x], x] /;$   $\text{FreeQ}\{a, c, d, n\}, x \ \&\& \ \text{EqQ}[a^2 c + d, 0] \ \&\& \ !\text{IntegerQ}[n/2] \ \&\& \ \text{LtQ}[p, -1] \ \&\& \ \text{NeQ}[p, -3/2] \ \&\& \ \text{NeQ}[n^2 - 4(p+1)^2, 0] \ \&\& \ (\text{IntegerQ}[p] \ || \ !\text{IntegerQ}[n])$
6740.  $\text{Int}[(E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}(x\_))/((c\_)+(d\_)(x\_)^2)^{(3/2)}, x\_Symbol]$   $\rightarrow \text{Simp}[(-1-a n x)(E^{n \text{ArcCoth}[a x]})/(a^2 c(n^2-1)\text{Sqrt}[c+d x^2]), x] /;$   $\text{FreeQ}\{a, c, d, n\}, x \ \&\& \ \text{EqQ}[a^2 c + d, 0] \ \&\& \ !\text{IntegerQ}[n]$
6741.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}(x\_)((c\_)+(d\_)(x\_)^2)^{(p\_)}, x\_Symbol]$   $\rightarrow \text{Simp}[(2(p+1)+a n x)(c+d x^2)^{(p+1)}(E^{n \text{ArcCoth}[a x]})/(a^2 c(n^2-4(p+1)^2))], x] - \text{Simp}[n((2p+3)/(a^2 c(n^2-4(p+1)^2))) \text{Int}[(c+d x^2)^{(p+1)}E^{n \text{ArcCoth}[a x]}, x], x] /;$   $\text{FreeQ}\{a, c, d, n\}, x \ \&\& \ \text{EqQ}[a^2 c + d, 0] \ \&\& \ !\text{IntegerQ}[n/2] \ \&\& \ \text{LeQ}[p, -1] \ \&\& \ \text{NeQ}[p, -3/2] \ \&\& \ \text{NeQ}[n^2 - 4(p+1)^2, 0] \ \&\& \ (\text{IntegerQ}[p] \ | \ !\text{IntegerQ}[n])$
6742.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}(x\_)^2((c\_)+(d\_)(x\_)^2)^{(p\_)}, x\_Symbol]$   $\rightarrow \text{Simp}[(-n+2(p+1)a n x)(c+d x^2)^{(p+1)}(E^{n \text{ArcCoth}[a x]})/(a^3 c n^2(n^2-1))], x] /;$   $\text{FreeQ}\{a, c, d, n\}, x \ \&\& \ \text{EqQ}[a^2 c + d, 0] \ \&\& \ !\text{IntegerQ}[n/2] \ \&\& \ \text{EqQ}[n^2 + 2(p+1), 0] \ \&\& \ \text{NeQ}[n^2, 1]$
6743.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}(x\_)^2((c\_)+(d\_)(x\_)^2)^{(p\_)}, x\_Symbol]$   $\rightarrow \text{Simp}[(n+2(p+1)a n x)(c+d x^2)^{(p+1)}(E^{n \text{ArcCoth}[a x]})/(a^3 c(n^2-4(p+1)^2))], x] - \text{Simp}[(n^2+2(p+1))/(a^2 c(n^2-4(p+1)^2)) \text{Int}[(c+d x^2)^{(p+1)}E^{n \text{ArcCoth}[a x]}, x], x] /;$   $\text{FreeQ}\{a, c, d, n\}, x \ \&\& \ \text{EqQ}[a^2 c + d, 0] \ \&\& \ !\text{IntegerQ}[n/2] \ \&\& \ \text{LeQ}[p, -1] \ \&\& \ \text{NeQ}[n^2 + 2(p+1), 0] \ \&\& \ \text{NeQ}[n^2 - 4(p+1)^2, 0] \ \&\& \ (\text{IntegerQ}[p] \ || \ !\text{IntegerQ}[n])$
6744.  $\text{Int}[E^{\text{ArcCoth}[(a\_)(x\_)](n\_)}(x\_)^{(m\_)}((c\_)+(d\_)(x\_)^2)^{(p\_)}, x\_Symbol]$   $\rightarrow \text{Simp}[(-c)^p/a^{(m+1)} \text{Subst}[\text{Int}[E^{n x}(\text{Coth}[x])^m$

- $+ 2*(p + 1)/\text{Cosh}[x]^{(2*(p + 1))}$ , x], x, ArcCoth[a\*x]], x] /; FreeQ[
 {a, c, d, n}, x] && EqQ[a^2\*c + d, 0] && !IntegerQ[n/2] && IntegerQ[m]
 ] && LeQ[3, m, -2\*(p + 1)] && IntegerQ[p]
6745. Int[E^(ArcCoth[(a\_.)\*(x\_.)]\*(n\_.))\*(u\_.)\*((c\_) + (d\_.)\*(x\_)^2)^(p\_.), x\_Symbol]
 :> Simp[d^p Int[u\*x^(2\*p)\*(1 - 1/(a^2\*x^2))^p\*E^(n\*ArcCoth[a\*x]), x], x] /; FreeQ[{a, c, d, n}, x]
 && EqQ[a^2\*c + d, 0] && !IntegerQ[n/2] && IntegerQ[p]
6746. Int[E^(ArcCoth[(a\_.)\*(x\_.)]\*(n\_.))\*(u\_.)\*((c\_) + (d\_.)\*(x\_)^2)^(p\_.), x\_Symbol]
 :> Simp[(c + d\*x^2)^p/(x^(2\*p)\*(1 - 1/(a^2\*x^2))^p) Int[u\*x^(2\*p)\*(1 - 1/(a^2\*x^2))^p\*E^(n\*ArcCoth[a\*x]), x], x] /; FreeQ[{a, c, d, n, p}, x]
 && EqQ[a^2\*c + d, 0] && !IntegerQ[n/2] && !IntegerQ[p]
6747. Int[E^(ArcCoth[(a\_.)\*(x\_.)]\*(n\_.))\*(u\_.)\*((c\_) + (d\_.)/(x\_)^2)^(p\_.), x\_Symbol]
 :> Simp[c^p/a^(2\*p) Int[(u/x^(2\*p))\*(-1 + a\*x)^(p - n/2)\*(1 + a\*x)^(p + n/2), x], x] /; FreeQ[{a, c, d, n, p}, x]
 && EqQ[c + a^2\*d, 0] && !IntegerQ[n/2] && (IntegerQ[p] || GtQ[c, 0]) && IntegersQ[2\*p, p + n/2]
6748. Int[E^(ArcCoth[(a\_.)\*(x\_.)]\*(n\_.))\*((c\_) + (d\_.)/(x\_)^2)^(p\_.), x\_Symbol]
 :> Simp[-c^p Subst[Int[(1 - x/a)^(p - n/2)\*((1 + x/a)^(p + n/2)/x^2), x], x, 1/x], x] /; FreeQ[{a, c, d, n, p}, x]
 && EqQ[c + a^2\*d, 0] && !IntegerQ[n/2] && (IntegerQ[p] || GtQ[c, 0]) && !IntegersQ[2\*p, p + n/2]
6749. Int[E^(ArcCoth[(a\_.)\*(x\_.)]\*(n\_.))\*((c\_) + (d\_.)/(x\_)^2)^(p\_.)\*(x\_)^(m\_.), x\_Symbol]
 :> Simp[-c^p Subst[Int[(1 - x/a)^(p - n/2)\*((1 + x/a)^(p + n/2)/x^(m + 2)), x], x, 1/x], x] /; FreeQ[{a, c, d, n, p}, x]
 && EqQ[c + a^2\*d, 0] && !IntegerQ[n/2] && (IntegerQ[p] || GtQ[c, 0]) && !IntegersQ[2\*p, p + n/2] && IntegerQ[m]
6750. Int[E^(ArcCoth[(a\_.)\*(x\_.)]\*(n\_.))\*((c\_) + (d\_.)/(x\_)^2)^(p\_.)\*(x\_)^(m\_.), x\_Symbol]
 :> Simp[(-c^p)\*x^m\*(1/x)^m Subst[Int[(1 - x/a)^(p - n/2)\*((1 + x/a)^(p + n/2)/x^(m + 2)), x], x, 1/x], x] /; FreeQ[{a, c, d, m, n, p}, x]
 && EqQ[c + a^2\*d, 0] && !IntegerQ[n/2] && (IntegerQ[p] ||

- | GtQ[c, 0]) && !IntegersQ[2\*p, p + n/2] && !IntegerQ[m]
6751. Int[E^(ArcCoth[(a\_.)\*(x\_.)]\*(n\_.))\*(u\_.)\*((c\_) + (d\_.)/(x\_)^2)^(p\_), x\_Symbol] :> Simp[c^IntPart[p]\*((c + d/x^2)^FracPart[p]/(1 - 1/(a^2\*x^2))^FracPart[p]) Int[u\*(1 - 1/(a^2\*x^2))^p\*E^(n\*ArcCoth[a\*x]), x], x] /; FreeQ[{a, c, d, n, p}, x] && EqQ[c + a^2\*d, 0] && !IntegerQ[n/2] && !(IntegerQ[p] || GtQ[c, 0])
6752. Int[E^(ArcCoth[(c\_.)\*((a\_) + (b\_.)\*(x\_.))]\*(n\_.))\*(u\_.), x\_Symbol] :> Simp[(-1)^(n/2) Int[u\*E^(n\*ArcTanh[c\*(a + b\*x)]), x], x] /; FreeQ[{a, b, c}, x] && IntegerQ[n/2]
6753. Int[E^(ArcCoth[(c\_.)\*((a\_) + (b\_.)\*(x\_.))]\*(n\_.)), x\_Symbol] :> Simp[(c\*(a + b\*x))^(n/2)\*((1 + 1/(c\*(a + b\*x)))^(n/2)/(1 + a\*c + b\*c\*x)^(n/2)) Int[(1 + a\*c + b\*c\*x)^(n/2)/(-1 + a\*c + b\*c\*x)^(n/2), x], x] /; FreeQ[{a, b, c, n}, x] && !IntegerQ[n/2]
6754. Int[E^(ArcCoth[(c\_.)\*((a\_) + (b\_.)\*(x\_.))]\*(n\_.))\*(x\_)^(m\_), x\_Symbol] :> Simp[-4/(n\*b^(m + 1)\*c^(m + 1)) Subst[Int[x^(2/n)\*((1 + a\*c + (1 - a\*c)\*x^(2/n))^m/(-1 + x^(2/n))^(m + 2)), x], x, (1 + 1/(c\*(a + b\*x)))^(n/2)/(1 - 1/(c\*(a + b\*x)))^(n/2)], x] /; FreeQ[{a, b, c}, x] && ILtQ[m, 0] && LtQ[-1, n, 1]
6755. Int[E^(ArcCoth[(c\_.)\*((a\_) + (b\_.)\*(x\_.))]\*(n\_.))\*((d\_.) + (e\_.)\*(x\_)^(m\_.)), x\_Symbol] :> Simp[(c\*(a + b\*x))^(n/2)\*((1 + 1/(c\*(a + b\*x)))^(n/2)/(1 + a\*c + b\*c\*x)^(n/2)) Int[(d + e\*x)^m\*((1 + a\*c + b\*c\*x)^(n/2)/(-1 + a\*c + b\*c\*x)^(n/2)), x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && !IntegerQ[n/2]
6756. Int[E^(ArcCoth[(a\_) + (b\_.)\*(x\_.)]\*(n\_.))\*(u\_.)\*((c\_) + (d\_.)\*(x\_) + (e\_.)\*(x\_)^2)^(p\_.), x\_Symbol] :> Simp[(c/(1 - a^2))^p\*((a + b\*x)/(1 + a + b\*x))^(n/2)\*((1 + a + b\*x)/(a + b\*x))^(n/2)\*((1 - a - b\*x)^(n/2)/(-1 + a + b\*x)^(n/2)) Int[u\*(1 - a - b\*x)^(p - n/2)\*(1 + a + b\*x)^(p + n/2), x], x] /; FreeQ[{a, b, c, d, e, n, p}, x] && !IntegerQ[n/2] && EqQ[b\*d - 2\*a\*e, 0] && EqQ[b^2\*c + e\*(1 - a^2), 0] && (IntegerQ[p] || GtQ[c/(1 - a^2), 0])



6757.  $\text{Int}[E^{(\text{ArcCoth}[(a_{\_}) + (b_{\_}) \cdot (x_{\_})]) \cdot (n_{\_})} \cdot (u_{\_}) \cdot ((c_{\_}) + (d_{\_}) \cdot (x_{\_}) + (e_{\_}) \cdot (x_{\_})^2)^{(p_{\_})}, x\_Symbol] \rightarrow \text{Simp}[(c + d \cdot x + e \cdot x^2)^p / (1 - a^2 - 2 \cdot a \cdot b \cdot x - b^2 \cdot x^2)^p \cdot \text{Int}[u \cdot (1 - a^2 - 2 \cdot a \cdot b \cdot x - b^2 \cdot x^2)^p \cdot E^{(n \cdot \text{ArcCoth}[a \cdot x])}, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, n, p\}, x] \ \&\& \ !\text{IntegerQ}[n/2] \ \&\& \ \text{EqQ}[b \cdot d - 2 \cdot a \cdot e, 0] \ \&\& \ \text{EqQ}[b^2 \cdot c + e \cdot (1 - a^2), 0] \ \&\& \ !(\text{IntegerQ}[p] \ || \ \text{GtQ}[c/(1 - a^2), 0])$
6758.  $\text{Int}[E^{(\text{ArcCoth}[(c_{\_}) / ((a_{\_}) + (b_{\_}) \cdot (x_{\_})]) \cdot (n_{\_})} \cdot (u_{\_})}, x\_Symbol] \rightarrow \text{Int}[u \cdot E^{(n \cdot \text{ArcTanh}[a/c + b \cdot (x/c)])}, x] /;$   $\text{FreeQ}[\{a, b, c, n\}, x]$
6759.  $\text{Int}[\text{ArcTanh}[(a_{\_}) + (b_{\_}) \cdot (x_{\_})^{(n_{\_})}], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcTanh}[a + b \cdot x^n], x] - \text{Simp}[b \cdot n \cdot \text{Int}[x^n / (1 - a^2 - 2 \cdot a \cdot b \cdot x^n - b^2 \cdot x^{(2 \cdot n)})], x], x] /;$   $\text{FreeQ}[\{a, b, n\}, x]$
6760.  $\text{Int}[\text{ArcCoth}[(a_{\_}) + (b_{\_}) \cdot (x_{\_})^{(n_{\_})}], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcCoth}[a + b \cdot x^n], x] - \text{Simp}[b \cdot n \cdot \text{Int}[x^n / (1 - a^2 - 2 \cdot a \cdot b \cdot x^n - b^2 \cdot x^{(2 \cdot n)})], x], x] /;$   $\text{FreeQ}[\{a, b, n\}, x]$
6761.  $\text{Int}[\text{ArcTanh}[(a_{\_}) + (b_{\_}) \cdot (x_{\_})^{(n_{\_})}] / (x_{\_}), x\_Symbol] \rightarrow \text{Simp}[1/2 \cdot \text{Int}[\text{Log}[1 + a + b \cdot x^n] / x, x], x] - \text{Simp}[1/2 \cdot \text{Int}[\text{Log}[1 - a - b \cdot x^n] / x, x], x] /;$   $\text{FreeQ}[\{a, b, n\}, x]$
6762.  $\text{Int}[\text{ArcCoth}[(a_{\_}) + (b_{\_}) \cdot (x_{\_})^{(n_{\_})}] / (x_{\_}), x\_Symbol] \rightarrow \text{Simp}[1/2 \cdot \text{Int}[\text{Log}[1 + 1/(a + b \cdot x^n)] / x, x], x] - \text{Simp}[1/2 \cdot \text{Int}[\text{Log}[1 - 1/(a + b \cdot x^n)] / x, x], x] /;$   $\text{FreeQ}[\{a, b, n\}, x]$
6763.  $\text{Int}[\text{ArcTanh}[(a_{\_}) + (b_{\_}) \cdot (x_{\_})^{(n_{\_})}] \cdot (x_{\_})^{(m_{\_})}, x\_Symbol] \rightarrow \text{Simp}[x^{(m+1)} \cdot (\text{ArcTanh}[a + b \cdot x^n] / (m+1)), x] - \text{Simp}[b \cdot (n / (m+1)) \cdot \text{Int}[x^{(m+n)} / (1 - a^2 - 2 \cdot a \cdot b \cdot x^n - b^2 \cdot x^{(2 \cdot n)})], x], x] /;$   $\text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{RationalQ}[m, n] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{NeQ}[m+1, n]$
6764.  $\text{Int}[\text{ArcCoth}[(a_{\_}) + (b_{\_}) \cdot (x_{\_})^{(n_{\_})}] \cdot (x_{\_})^{(m_{\_})}, x\_Symbol] \rightarrow \text{Simp}[x^{(m+1)} \cdot (\text{ArcCoth}[a + b \cdot x^n] / (m+1)), x] - \text{Simp}[b \cdot (n / (m+1)) \cdot \text{Int}[x^{(m+n)} / (1 - a^2 - 2 \cdot a \cdot b \cdot x^n - b^2 \cdot x^{(2 \cdot n)})], x], x] /;$   $\text{FreeQ}[\{a, b\}, x] \ \&\& \ \text{RationalQ}[m, n] \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{NeQ}[m+1, n]$

6765.  $\text{Int}[\text{ArcTanh}[(a_.) + (b_.)*(f_.)^{((c_.) + (d_.)*(x_.))}], x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[1 + a + b*f^{(c + d*x)}], x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[1 - a - b*f^{(c + d*x)}], x], x] /; \text{FreeQ}\{a, b, c, d, f\}, x]$
6766.  $\text{Int}[\text{ArcCoth}[(a_.) + (b_.)*(f_.)^{((c_.) + (d_.)*(x_.))}], x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[\text{Log}[1 + 1/(a + b*f^{(c + d*x)})], x], x] - \text{Simp}[1/2 \text{ Int}[\text{Log}[1 - 1/(a + b*f^{(c + d*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, f\}, x]$
6767.  $\text{Int}[\text{ArcTanh}[(a_.) + (b_.)*(f_.)^{((c_.) + (d_.)*(x_.))}]*x^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[x^m*\text{Log}[1 + a + b*f^{(c + d*x)}], x], x] - \text{Simp}[1/2 \text{ Int}[x^m*\text{Log}[1 - a - b*f^{(c + d*x)}], x], x] /; \text{FreeQ}\{a, b, c, d, f\}, x] \&\& \text{IGtQ}[m, 0]$
6768.  $\text{Int}[\text{ArcCoth}[(a_.) + (b_.)*(f_.)^{((c_.) + (d_.)*(x_.))}]*x^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[x^m*\text{Log}[1 + 1/(a + b*f^{(c + d*x)})], x], x] - \text{Simp}[1/2 \text{ Int}[x^m*\text{Log}[1 - 1/(a + b*f^{(c + d*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, f\}, x] \&\& \text{IGtQ}[m, 0]$
6769.  $\text{Int}[\text{ArcTanh}[(c_.)/((a_.) + (b_.)*(x_.)^{(n_.)})]^{(m_.)}*(u_.), x\_Symbol] \rightarrow \text{Int}[u*\text{ArcCoth}[a/c + b*(x^n/c)]^m, x] /; \text{FreeQ}\{a, b, c, n, m\}, x]$
6770.  $\text{Int}[\text{ArcCoth}[(c_.)/((a_.) + (b_.)*(x_.)^{(n_.)})]^{(m_.)}*(u_.), x\_Symbol] \rightarrow \text{Int}[u*\text{ArcTanh}[a/c + b*(x^n/c)]^m, x] /; \text{FreeQ}\{a, b, c, n, m\}, x]$
6771.  $\text{Int}[\text{ArcTanh}[(c_.)*(x_.)/\text{Sqrt}[(a_.) + (b_.)*(x_.)^2]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcTanh}[c*x/\text{Sqrt}[a + b*x^2]], x] - \text{Simp}[c \text{ Int}[x/\text{Sqrt}[a + b*x^2], x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[b, c^2]$
6772.  $\text{Int}[\text{ArcCoth}[(c_.)*(x_.)/\text{Sqrt}[(a_.) + (b_.)*(x_.)^2]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcCoth}[c*x/\text{Sqrt}[a + b*x^2]], x] - \text{Simp}[c \text{ Int}[x/\text{Sqrt}[a + b*x^2], x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[b, c^2]$
6773.  $\text{Int}[\text{ArcTanh}[(c_.)*(x_.)/\text{Sqrt}[(a_.) + (b_.)*(x_.)^2]]/(x_.), x\_Symbol] \rightarrow \text{Simp}[\text{ArcTanh}[c*(x/\text{Sqrt}[a + b*x^2])] * \text{Log}[x], x] - \text{Simp}[c \text{ Int}[\text{Log}[x]/\text{Sqrt}[a + b*x^2], x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[b, c^2]$

6774.  $\text{Int}[\text{ArcCoth}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]/(x), x\_Symbol] :> \text{Simp}[\text{ArcCoth}[c \cdot x/\sqrt{a + b \cdot x^2}] \cdot \text{Log}[x], x] - \text{Simp}[c \cdot \text{Int}[\text{Log}[x]/\sqrt{a + b \cdot x^2}], x], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[b, c^2]$
6775.  $\text{Int}[\text{ArcTanh}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}] \cdot ((d \cdot x)^m), x\_Symbol] :> \text{Simp}[(d \cdot x)^{m+1} \cdot \text{ArcTanh}[c \cdot x/\sqrt{a + b \cdot x^2}]/(d \cdot (m+1)), x] - \text{Simp}[c/(d \cdot (m+1)) \cdot \text{Int}[(d \cdot x)^{m+1}/\sqrt{a + b \cdot x^2}], x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{EqQ}[b, c^2] \ \&\& \ \text{NeQ}[m, -1]$
6776.  $\text{Int}[\text{ArcCoth}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}] \cdot ((d \cdot x)^m), x\_Symbol] :> \text{Simp}[(d \cdot x)^{m+1} \cdot \text{ArcCoth}[c \cdot x/\sqrt{a + b \cdot x^2}]/(d \cdot (m+1)), x] - \text{Simp}[c/(d \cdot (m+1)) \cdot \text{Int}[(d \cdot x)^{m+1}/\sqrt{a + b \cdot x^2}], x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{EqQ}[b, c^2] \ \&\& \ \text{NeQ}[m, -1]$
6777.  $\text{Int}[1/(\text{ArcTanh}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]) \cdot \sqrt{a + b \cdot x^2}, x\_Symbol] :> \text{Simp}[(1/c) \cdot \text{Log}[\text{ArcTanh}[c \cdot x/\sqrt{a + b \cdot x^2}]]], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[b, c^2]$
6778.  $\text{Int}[1/(\text{ArcCoth}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]) \cdot \sqrt{a + b \cdot x^2}, x\_Symbol] :> \text{Simp}[(-c^{-1}) \cdot \text{Log}[\text{ArcCoth}[c \cdot x/\sqrt{a + b \cdot x^2}]]], x] /; \text{FreeQ}[\{a, b, c\}, x] \ \&\& \ \text{EqQ}[b, c^2]$
6779.  $\text{Int}[\text{ArcTanh}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]^{(m)}/\sqrt{a + b \cdot x^2}, x\_Symbol] :> \text{Simp}[\text{ArcTanh}[c \cdot x/\sqrt{a + b \cdot x^2}]^{(m+1)}/(c \cdot (m+1)), x] /; \text{FreeQ}[\{a, b, c, m\}, x] \ \&\& \ \text{EqQ}[b, c^2] \ \&\& \ \text{NeQ}[m, -1]$
6780.  $\text{Int}[\text{ArcCoth}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]^{(m)}/\sqrt{a + b \cdot x^2}, x\_Symbol] :> \text{Simp}[-\text{ArcCoth}[c \cdot x/\sqrt{a + b \cdot x^2}]^{(m+1)}/(c \cdot (m+1)), x] /; \text{FreeQ}[\{a, b, c, m\}, x] \ \&\& \ \text{EqQ}[b, c^2] \ \&\& \ \text{NeQ}[m, -1]$
6781.  $\text{Int}[\text{ArcTanh}[\frac{(c \cdot x)}{\sqrt{a + b \cdot x^2}}]^{(m)}/\sqrt{(d \cdot x + e \cdot x^2)}, x\_Symbol] :> \text{Simp}[\sqrt{a + b \cdot x^2}/\sqrt{d + e \cdot x^2} \cdot \text{Int}[\text{ArcTanh}[c \cdot x/\sqrt{a + b \cdot x^2}]^m/\sqrt{a + b \cdot x^2}], x], x] /; \text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{EqQ}[b, c^2] \ \&\& \ \text{EqQ}[b \cdot d - a \cdot e, 0]$

6782.  $\text{Int}[\text{ArcCoth}[\frac{(c_.) \cdot (x_.)}{\sqrt{(a_.) + (b_.) \cdot (x_.)^2}}]^{(m_.)} / \sqrt{(d_.) + (e_.) \cdot (x_.)^2}], x\_Symbol] \rightarrow \text{Simp}[\sqrt{a + b \cdot x^2} / \sqrt{d + e \cdot x^2} \text{Int}[\text{ArcCoth}[c \cdot (x / \sqrt{a + b \cdot x^2})]]^m / \sqrt{a + b \cdot x^2}, x], x] /;$   $\text{FreeQ}[\{a, b, c, d, e, m\}, x] \ \&\& \ \text{EqQ}[b, c^2] \ \&\& \ \text{EqQ}[b \cdot d - a \cdot e, 0]$
6783.  $\text{Int}[(u_.) \cdot (v_.)^{(n_.)}], x\_Symbol] \rightarrow \text{With}[\{tmp = \text{InverseFunctionOfLinear}[u, x]\}, \text{Simp}[((- \text{Discriminant}[v, x] / (4 \cdot \text{Coefficient}[v, x, 2]))^n / \text{Coefficient}[tmp[[1]], x, 1]) \cdot \text{Subst}[\text{Int}[\text{SimplifyIntegrand}[\text{SubstForInverseFunction}[u, tmp, x] \cdot \text{Sech}[x]^{(2 \cdot (n + 1))}], x], x], x, tmp], x] /;$   $! \text{FalseQ}[tmp] \ \&\& \ \text{EqQ}[\text{Head}[tmp], \text{ArcTanh}] \ \&\& \ \text{EqQ}[\text{Discriminant}[v, x] \cdot tmp[[1]]^2 - D[v, x]^2, 0] /;$   $\text{QuadraticQ}[v, x] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{PosQ}[\text{Discriminant}[v, x]] \ \&\& \ \text{MatchQ}[u, (r_.) \cdot (f_.)^{(w_.)}] /;$   $\text{FreeQ}[f, x]$
6784.  $\text{Int}[(u_.) \cdot (v_.)^{(n_.)}], x\_Symbol] \rightarrow \text{With}[\{tmp = \text{InverseFunctionOfLinear}[u, x]\}, \text{Simp}[((- \text{Discriminant}[v, x] / (4 \cdot \text{Coefficient}[v, x, 2]))^n / \text{Coefficient}[tmp[[1]], x, 1]) \cdot \text{Subst}[\text{Int}[\text{SimplifyIntegrand}[\text{SubstForInverseFunction}[u, tmp, x] \cdot (-\text{Csch}[x]^{(2 \cdot (n + 1))})], x], x], x, tmp], x] /;$   $! \text{FalseQ}[tmp] \ \&\& \ \text{EqQ}[\text{Head}[tmp], \text{ArcCoth}] \ \&\& \ \text{EqQ}[\text{Discriminant}[v, x] \cdot tmp[[1]]^2 - D[v, x]^2, 0] /;$   $\text{QuadraticQ}[v, x] \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{PosQ}[\text{Discriminant}[v, x]] \ \&\& \ \text{MatchQ}[u, (r_.) \cdot (f_.)^{(w_.)}] /;$   $\text{FreeQ}[f, x]$
6785.  $\text{Int}[\text{ArcTanh}[(c_.) + (d_.) \cdot \text{Tanh}[(a_.) + (b_.) \cdot (x_.)]], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcTanh}[c + d \cdot \text{Tanh}[a + b \cdot x]], x] + \text{Simp}[b \text{Int}[x / (c - d + c \cdot E^{(2 \cdot a + 2 \cdot b \cdot x)}), x], x] /;$   $\text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[(c - d)^2, 1]$
6786.  $\text{Int}[\text{ArcCoth}[(c_.) + (d_.) \cdot \text{Tanh}[(a_.) + (b_.) \cdot (x_.)]], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcCoth}[c + d \cdot \text{Tanh}[a + b \cdot x]], x] + \text{Simp}[b \text{Int}[x / (c - d + c \cdot E^{(2 \cdot a + 2 \cdot b \cdot x)}), x], x] /;$   $\text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[(c - d)^2, 1]$
6787.  $\text{Int}[\text{ArcTanh}[(c_.) + \text{Coth}[(a_.) + (b_.) \cdot (x_.)] \cdot (d_.)], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcTanh}[c + d \cdot \text{Coth}[a + b \cdot x]], x] + \text{Simp}[b \text{Int}[x / (c - d - c \cdot E^{(2 \cdot a + 2 \cdot b \cdot x)}), x], x] /;$   $\text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[(c - d)^2, 1]$
6788.  $\text{Int}[\text{ArcCoth}[(c_.) + \text{Coth}[(a_.) + (b_.) \cdot (x_.)] \cdot (d_.)], x\_Symbol] \rightarrow \text{Simp}[x \cdot \text{ArcCoth}[c + d \cdot \text{Coth}[a + b \cdot x]], x] + \text{Simp}[b \text{Int}[x / (c - d - c \cdot E^{(2 \cdot a + 2 \cdot b \cdot x)}), x], x] /;$   $\text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{EqQ}[(c - d)^2, 1]$

- + 2\*b\*x)), x], x] /; FreeQ[{a, b, c, d}, x] && EqQ[(c - d)^2, 1]
6789. Int[ArcTanh[(c\_.) + (d\_.)\*Tanh[(a\_.) + (b\_.)\*(x\_)]], x\_Symbol] := Simp [x\*ArcTanh[c + d\*Tanh[a + b\*x]], x] + (Simp[b\*(1 - c - d) Int[x\*(E^(2\*a + 2\*b\*x)/(1 - c + d + (1 - c - d)\*E^(2\*a + 2\*b\*x))), x], x] - Simp [b\*(1 + c + d) Int[x\*(E^(2\*a + 2\*b\*x)/(1 + c - d + (1 + c + d)\*E^(2\*a + 2\*b\*x))), x], x]) /; FreeQ[{a, b, c, d}, x] && NeQ[(c - d)^2, 1]
6790. Int[ArcCoth[(c\_.) + (d\_.)\*Tanh[(a\_.) + (b\_.)\*(x\_)]], x\_Symbol] := Simp [x\*ArcCoth[c + d\*Tanh[a + b\*x]], x] + (Simp[b\*(1 - c - d) Int[x\*(E^(2\*a + 2\*b\*x)/(1 - c + d + (1 - c - d)\*E^(2\*a + 2\*b\*x))), x], x] - Simp [b\*(1 + c + d) Int[x\*(E^(2\*a + 2\*b\*x)/(1 + c - d + (1 + c + d)\*E^(2\*a + 2\*b\*x))), x], x]) /; FreeQ[{a, b, c, d}, x] && NeQ[(c - d)^2, 1]
6791. Int[ArcTanh[(c\_.) + Coth[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)], x\_Symbol] := Simp [x\*ArcTanh[c + d\*Coth[a + b\*x]], x] + (-Simp[b\*(1 - c - d) Int[x\*(E^(2\*a + 2\*b\*x)/(1 - c + d - (1 - c - d)\*E^(2\*a + 2\*b\*x))), x], x] + Simp [b\*(1 + c + d) Int[x\*(E^(2\*a + 2\*b\*x)/(1 + c - d - (1 + c + d)\*E^(2\*a + 2\*b\*x))), x], x]) /; FreeQ[{a, b, c, d}, x] && NeQ[(c - d)^2, 1]
6792. Int[ArcCoth[(c\_.) + Coth[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)], x\_Symbol] := Simp [x\*ArcCoth[c + d\*Coth[a + b\*x]], x] + (-Simp[b\*(1 - c - d) Int[x\*(E^(2\*a + 2\*b\*x)/(1 - c + d - (1 - c - d)\*E^(2\*a + 2\*b\*x))), x], x] + Simp [b\*(1 + c + d) Int[x\*(E^(2\*a + 2\*b\*x)/(1 + c - d - (1 + c + d)\*E^(2\*a + 2\*b\*x))), x], x]) /; FreeQ[{a, b, c, d}, x] && NeQ[(c - d)^2, 1]
6793. Int[ArcTanh[(c\_.) + (d\_.)\*Tanh[(a\_.) + (b\_.)\*(x\_)]]\*((e\_.) + (f\_.)\*(x\_)^(m\_.)), x\_Symbol] := Simp[(e + f\*x)^(m + 1)\*(ArcTanh[c + d\*Tanh[a + b\*x]]/(f\*(m + 1))), x] + Simp[b/(f\*(m + 1)) Int[(e + f\*x)^(m + 1)/(c - d + c\*E^(2\*a + 2\*b\*x)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && I GtQ[m, 0] && EqQ[(c - d)^2, 1]
6794. Int[ArcCoth[(c\_.) + (d\_.)\*Tanh[(a\_.) + (b\_.)\*(x\_)]]\*((e\_.) + (f\_.)\*(x\_)^(m\_.)), x\_Symbol] := Simp[(e + f\*x)^(m + 1)\*(ArcCoth[c + d\*Tanh[a + b\*x]]/(f\*(m + 1))), x] + Simp[b/(f\*(m + 1)) Int[(e + f\*x)^(m + 1)/(c - d + c\*E^(2\*a + 2\*b\*x)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && I

- GtQ[m, 0] && EqQ[(c - d)^2, 1]
6795. Int[ArcTanh[(c\_.) + Coth[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcTanh[c + d\*Coth[a + b\*x]]/(f\*(m + 1))), x] + Simp[b/(f\*(m + 1)) Int[(e + f\*x)^(m + 1)/(c - d - c\*E^(2\*a + 2\*b\*x)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && I GtQ[m, 0] && EqQ[(c - d)^2, 1]
6796. Int[ArcCoth[(c\_.) + Coth[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcCoth[c + d\*Coth[a + b\*x]]/(f\*(m + 1))), x] + Simp[b/(f\*(m + 1)) Int[(e + f\*x)^(m + 1)/(c - d - c\*E^(2\*a + 2\*b\*x)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && I GtQ[m, 0] && EqQ[(c - d)^2, 1]
6797. Int[ArcTanh[(c\_.) + (d\_.)\*Tanh[(a\_.) + (b\_.)\*(x\_)]]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcTanh[c + d\*Tanh[a + b\*x]]/(f\*(m + 1))), x] + (Simp[b\*((1 - c - d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*a + 2\*b\*x)/(1 - c + d + (1 - c - d)\*E^(2\*a + 2\*b\*x))), x], x] - Simp[b\*((1 + c + d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*a + 2\*b\*x)/(1 + c - d + (1 + c + d)\*E^(2\*a + 2\*b\*x))), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && NeQ[(c - d)^2, 1]
6798. Int[ArcCoth[(c\_.) + (d\_.)\*Tanh[(a\_.) + (b\_.)\*(x\_)]]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcCoth[c + d\*Tanh[a + b\*x]]/(f\*(m + 1))), x] + (Simp[b\*((1 - c - d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*a + 2\*b\*x)/(1 - c + d + (1 - c - d)\*E^(2\*a + 2\*b\*x))), x], x] - Simp[b\*((1 + c + d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*a + 2\*b\*x)/(1 + c - d + (1 + c + d)\*E^(2\*a + 2\*b\*x))), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && NeQ[(c - d)^2, 1]
6799. Int[ArcTanh[(c\_.) + Coth[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcTanh[c + d\*Coth[a + b\*x]]/(f\*(m + 1))), x] + (-Simp[b\*((1 - c - d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*a + 2\*b\*x)/(1 - c + d - (1 - c - d)\*E^(2\*a + 2\*b\*x))), x], x] + Simp[b\*((1 + c + d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*a + 2\*b\*x)/(1 + c - d - (1 + c + d)\*E^(2\*a + 2\*b\*x))), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && NeQ[(c - d)^2, 1]

6800.  $\text{Int}[\text{ArcCoth}[(c_.) + \text{Coth}[(a_.) + (b_.)(x_)]*(d_.)]*((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcCoth}[c + d*\text{Coth}[a + b*x]]/(f*(m + 1))), x] + (-\text{Simp}[b*((1 - c - d)/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)}*(E^{(2*a + 2*b*x)})/(1 - c + d - (1 - c - d)*E^{(2*a + 2*b*x)})], x], x] + \text{Simp}[b*((1 + c + d)/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)}*(E^{(2*a + 2*b*x)})/(1 + c - d - (1 + c + d)*E^{(2*a + 2*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{NeQ}[(c - d)^2, 1]$
6801.  $\text{Int}[\text{ArcTanh}[\text{Tan}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcTanh}[\text{Tan}[a + b*x]], x] - \text{Simp}[b \text{Int}[x*\text{Sec}[2*a + 2*b*x], x], x] /; \text{FreeQ}\{a, b\}, x]$
6802.  $\text{Int}[\text{ArcCoth}[\text{Tan}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcCoth}[\text{Tan}[a + b*x]], x] - \text{Simp}[b \text{Int}[x*\text{Sec}[2*a + 2*b*x], x], x] /; \text{FreeQ}\{a, b\}, x]$
6803.  $\text{Int}[\text{ArcTanh}[\text{Cot}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcTanh}[\text{Cot}[a + b*x]], x] - \text{Simp}[b \text{Int}[x*\text{Sec}[2*a + 2*b*x], x], x] /; \text{FreeQ}\{a, b\}, x]$
6804.  $\text{Int}[\text{ArcCoth}[\text{Cot}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcCoth}[\text{Cot}[a + b*x]], x] - \text{Simp}[b \text{Int}[x*\text{Sec}[2*a + 2*b*x], x], x] /; \text{FreeQ}\{a, b\}, x]$
6805.  $\text{Int}[\text{ArcTanh}[\text{Tan}[(a_.) + (b_.)(x_)]*((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcTanh}[\text{Tan}[a + b*x]]/(f*(m + 1))), x] - \text{Simp}[b/(f*(m + 1)) \text{Int}[(e + f*x)^{(m + 1)}*\text{Sec}[2*a + 2*b*x], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
6806.  $\text{Int}[\text{ArcCoth}[\text{Tan}[(a_.) + (b_.)(x_)]*((e_.) + (f_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcCoth}[\text{Tan}[a + b*x]]/(f*(m + 1))), x] - \text{Simp}[b/(f*(m + 1)) \text{Int}[(e + f*x)^{(m + 1)}*\text{Sec}[2*a + 2*b*x], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{IGtQ}[m, 0]$

6807.  $\text{Int}[\text{ArcTanh}[\text{Cot}[(a_.) + (b_.)(x_)]]*(e_.) + (f_.)(x_)]^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcTanh}[\text{Cot}[a + b*x]]/(f*(m + 1))), x] - \text{Simp}[b/(f*(m + 1)) \text{Int}[(e + f*x)^{(m + 1)}*\text{Sec}[2*a + 2*b*x], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
6808.  $\text{Int}[\text{ArcCoth}[\text{Cot}[(a_.) + (b_.)(x_)]]*(e_.) + (f_.)(x_)]^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcCoth}[\text{Cot}[a + b*x]]/(f*(m + 1))), x] - \text{Simp}[b/(f*(m + 1)) \text{Int}[(e + f*x)^{(m + 1)}*\text{Sec}[2*a + 2*b*x], x], x] /; \text{FreeQ}\{a, b, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
6809.  $\text{Int}[\text{ArcTanh}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcTanh}[c + d*\text{Tan}[a + b*x]], x] + \text{Simp}[I*b \text{Int}[x/(c + I*d + c*E^{(2*I*a + 2*I*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[(c + I*d)^2, 1]$
6810.  $\text{Int}[\text{ArcCoth}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcCoth}[c + d*\text{Tan}[a + b*x]], x] + \text{Simp}[I*b \text{Int}[x/(c + I*d + c*E^{(2*I*a + 2*I*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[(c + I*d)^2, 1]$
6811.  $\text{Int}[\text{ArcTanh}[(c_.) + \text{Cot}[(a_.) + (b_.)(x_)]*(d_.)], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcTanh}[c + d*\text{Cot}[a + b*x]], x] + \text{Simp}[I*b \text{Int}[x/(c - I*d - c*E^{(2*I*a + 2*I*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[(c - I*d)^2, 1]$
6812.  $\text{Int}[\text{ArcCoth}[(c_.) + \text{Cot}[(a_.) + (b_.)(x_)]*(d_.)], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcCoth}[c + d*\text{Cot}[a + b*x]], x] + \text{Simp}[I*b \text{Int}[x/(c - I*d - c*E^{(2*I*a + 2*I*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{EqQ}[(c - I*d)^2, 1]$
6813.  $\text{Int}[\text{ArcTanh}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)(x_)]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcTanh}[c + d*\text{Tan}[a + b*x]], x] + (-\text{Simp}[I*b*(1 + c - I*d) \text{Int}[x*(E^{(2*I*a + 2*I*b*x)})/(1 + c + I*d + (1 + c - I*d)*E^{(2*I*a + 2*I*b*x)})], x], x] + \text{Simp}[I*b*(1 - c + I*d) \text{Int}[x*(E^{(2*I*a + 2*I*b*x)})/(1 - c - I*d + (1 - c + I*d)*E^{(2*I*a + 2*I*b*x)})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[(c + I*d)^2, 1]$



6814.  $\text{Int}[\text{ArcCoth}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcCoth}[c + d*\text{Tan}[a + b*x]], x] + (-\text{Simp}[I*b*(1 + c - I*d) \text{Int}[x*(E^{2*I*a + 2*I*b*x})/(1 + c + I*d + (1 + c - I*d)*E^{2*I*a + 2*I*b*x})], x], x] + \text{Simp}[I*b*(1 - c + I*d) \text{Int}[x*(E^{2*I*a + 2*I*b*x})/(1 - c - I*d + (1 - c + I*d)*E^{2*I*a + 2*I*b*x})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[(c + I*d)^2, 1]$
6815.  $\text{Int}[\text{ArcTanh}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcTanh}[c + d*\text{Cot}[a + b*x]], x] + (-\text{Simp}[I*b*(1 - c - I*d) \text{Int}[x*(E^{2*I*a + 2*I*b*x})/(1 - c + I*d - (1 - c - I*d)*E^{2*I*a + 2*I*b*x})], x], x] + \text{Simp}[I*b*(1 + c + I*d) \text{Int}[x*(E^{2*I*a + 2*I*b*x})/(1 + c - I*d - (1 + c + I*d)*E^{2*I*a + 2*I*b*x})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[(c - I*d)^2, 1]$
6816.  $\text{Int}[\text{ArcCoth}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcCoth}[c + d*\text{Cot}[a + b*x]], x] + (-\text{Simp}[I*b*(1 - c - I*d) \text{Int}[x*(E^{2*I*a + 2*I*b*x})/(1 - c + I*d - (1 - c - I*d)*E^{2*I*a + 2*I*b*x})], x], x] + \text{Simp}[I*b*(1 + c + I*d) \text{Int}[x*(E^{2*I*a + 2*I*b*x})/(1 + c - I*d - (1 + c + I*d)*E^{2*I*a + 2*I*b*x})], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NeQ}[(c - I*d)^2, 1]$
6817.  $\text{Int}[\text{ArcTanh}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]*(e_.) + (f_.)*(x_.)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcTanh}[c + d*\text{Tan}[a + b*x]]/(f*(m + 1))), x] + \text{Simp}[I*(b/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)}/(c + I*d + c*E^{2*I*a + 2*I*b*x})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[(c + I*d)^2, 1]$
6818.  $\text{Int}[\text{ArcCoth}[(c_.) + (d_.)*\text{Tan}[(a_.) + (b_.)*(x_.)]*(e_.) + (f_.)*(x_.)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcCoth}[c + d*\text{Tan}[a + b*x]]/(f*(m + 1))), x] + \text{Simp}[I*(b/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)}/(c + I*d + c*E^{2*I*a + 2*I*b*x})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0] \&\& \text{EqQ}[(c + I*d)^2, 1]$
6819.  $\text{Int}[\text{ArcTanh}[(c_.) + \text{Cot}[(a_.) + (b_.)*(x_.)]*(d_.)]*(e_.) + (f_.)*(x_.)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*(\text{ArcTanh}[c + d*\text{Cot}[a + b*x]]/(f*(m + 1))), x] + \text{Simp}[I*(b/(f*(m + 1))) \text{Int}[(e + f*x)^{(m + 1)}/(c - I*d - c*E^{2*I*a + 2*I*b*x})], x], x] /; \text{FreeQ}\{a, b, c, d, e, f\},$

- $x]$  && IGtQ[m, 0] && EqQ[(c - I\*d)^2, 1]
6820. Int[ArcCoth[(c\_.) + Cot[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcCoth[c + d\*Cot[a + b\*x]]/(f\*(m + 1))), x] + Simp[I\*(b/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)/(c - I\*d - c\*E^(2\*I\*a + 2\*I\*b\*x)), x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && EqQ[(c - I\*d)^2, 1]
6821. Int[ArcTanh[(c\_.) + (d\_.)\*Tan[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcTanh[c + d\*Tan[a + b\*x]]/(f\*(m + 1))), x] + (-Simp[I\*b\*((1 + c - I\*d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*I\*a + 2\*I\*b\*x))/(1 + c + I\*d + (1 + c - I\*d)\*E^(2\*I\*a + 2\*I\*b\*x))], x], x] + Simp[I\*b\*((1 - c + I\*d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*I\*a + 2\*I\*b\*x))/(1 - c - I\*d + (1 - c + I\*d)\*E^(2\*I\*a + 2\*I\*b\*x))], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && NeQ[(c + I\*d)^2, 1]
6822. Int[ArcCoth[(c\_.) + (d\_.)\*Tan[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcCoth[c + d\*Tan[a + b\*x]]/(f\*(m + 1))), x] + (-Simp[I\*b\*((1 + c - I\*d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*I\*a + 2\*I\*b\*x))/(1 + c + I\*d + (1 + c - I\*d)\*E^(2\*I\*a + 2\*I\*b\*x))], x], x] + Simp[I\*b\*((1 - c + I\*d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*I\*a + 2\*I\*b\*x))/(1 - c - I\*d + (1 - c + I\*d)\*E^(2\*I\*a + 2\*I\*b\*x))], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && NeQ[(c + I\*d)^2, 1]
6823. Int[ArcTanh[(c\_.) + Cot[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcTanh[c + d\*Cot[a + b\*x]]/(f\*(m + 1))), x] + (-Simp[I\*b\*((1 - c - I\*d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*I\*a + 2\*I\*b\*x))/(1 - c + I\*d - (1 - c - I\*d)\*E^(2\*I\*a + 2\*I\*b\*x))], x], x] + Simp[I\*b\*((1 + c + I\*d)/(f\*(m + 1))) Int[(e + f\*x)^(m + 1)\*(E^(2\*I\*a + 2\*I\*b\*x))/(1 + c - I\*d - (1 + c + I\*d)\*E^(2\*I\*a + 2\*I\*b\*x))], x], x] /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0] && NeQ[(c - I\*d)^2, 1]
6824. Int[ArcCoth[(c\_.) + Cot[(a\_.) + (b\_.)\*(x\_)]\*(d\_.)]\*((e\_.) + (f\_.)\*(x\_))^(m\_.), x\_Symbol] :> Simp[(e + f\*x)^(m + 1)\*(ArcCoth[c + d\*Cot[a + b\*

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x]]/(f*(m + 1))), x] + (-Simp[I*b*((1 - c - I*d)/(f*(m + 1))) Int[(e
+ f*x)^(m + 1)*(E^(2*I*a + 2*I*b*x)/(1 - c + I*d - (1 - c - I*d)*E^(2
*I*a + 2*I*b*x))), x], x] + Simp[I*b*((1 + c + I*d)/(f*(m + 1))) Int
[(e + f*x)^(m + 1)*(E^(2*I*a + 2*I*b*x)/(1 + c - I*d - (1 + c + I*d)*E
^(2*I*a + 2*I*b*x))), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[
m, 0] && NeQ[(c - I*d)^2, 1]

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6825. `Int[ArcTanh[u_], x_Symbol] := Simp[x*ArcTanh[u], x] - Int[SimplifyIntegrand[x*(D[u, x]/(1 - u^2)), x], x] /; InverseFunctionFreeQ[u, x]`
6826. `Int[ArcCoth[u_], x_Symbol] := Simp[x*ArcCoth[u], x] - Int[SimplifyIntegrand[x*(D[u, x]/(1 - u^2)), x], x] /; InverseFunctionFreeQ[u, x]`
6827. `Int[((a_.) + ArcTanh[u_]*(b_.))*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] := Simp[(c + d*x)^(m + 1)*((a + b*ArcTanh[u])/(d*(m + 1))), x] - Simp[b/(d*(m + 1)) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D[u, x]/(1 - u^2)), x], x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ[m, -1] && InverseFunctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m + 1), u, x] && FalseQ[PowerVariableExpn[u, m + 1, x]]`
6828. `Int[((a_.) + ArcCoth[u_]*(b_.))*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] := Simp[(c + d*x)^(m + 1)*((a + b*ArcCoth[u])/(d*(m + 1))), x] - Simp[b/(d*(m + 1)) Int[SimplifyIntegrand[(c + d*x)^(m + 1)*(D[u, x]/(1 - u^2)), x], x], x] /; FreeQ[{a, b, c, d, m}, x] && NeQ[m, -1] && InverseFunctionFreeQ[u, x] && !FunctionOfQ[(c + d*x)^(m + 1), u, x] && FalseQ[PowerVariableExpn[u, m + 1, x]]`
6829. `Int[((a_.) + ArcTanh[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v, x]}, Simp[(a + b*ArcTanh[u]) w, x] - Simp[b Int[SimplifyIntegrand[w*(D[u, x]/(1 - u^2)), x], x], x] /; InverseFunctionFreeQ[w, x] /; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_.) + (d_.)*x)^(m_.) /; FreeQ[{c, d, m}, x]] && FalseQ[FunctionOfLinear[v*(a + b*ArcTanh[u]), x]]`
6830. `Int[((a_.) + ArcCoth[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v, x]}, Simp[(a + b*ArcCoth[u]) w, x] - Simp[b Int[SimplifyIntegrand[w*(D[u, x]/(1 - u^2)), x], x], x] /; InverseFunctionFreeQ[w, x] /;`

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FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_.) +
 (d_.)*x)^(m_.) /; FreeQ[{c, d, m}, x]] && FalseQ[FunctionOfLinear[v*(
 a + b*ArcCoth[u]), x]]

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6831.  $\text{Int}[\text{ArcSech}[(c\_)(x\_)], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcSech}[c*x], x] + \text{Simp}[\text{Sqrt}[1 + c*x]*\text{Sqrt}[1/(1 + c*x)] \text{Int}[1/\text{Sqrt}[1 - c^2*x^2], x], x] /; \text{FreeQ}[c, x]$
6832.  $\text{Int}[\text{ArcCsch}[(c\_)(x\_)], x\_Symbol] \rightarrow \text{Simp}[x*\text{ArcCsch}[c*x], x] + \text{Simp}[1/c \text{Int}[1/(x*\text{Sqrt}[1 + 1/(c^2*x^2)]), x], x] /; \text{FreeQ}[c, x]$
6833.  $\text{Int}[(a\_ + \text{ArcSech}[(c\_)(x\_)]*(b\_))^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[-c^{(-1)} \text{Subst}[\text{Int}[(a + b*x)^n*\text{Sech}[x]*\text{Tanh}[x], x], x, \text{ArcSech}[c*x]], x] /; \text{FreeQ}[\{a, b, c, n\}, x] \&\& \text{IGtQ}[n, 0]$
6834.  $\text{Int}[(a\_ + \text{ArcCsch}[(c\_)(x\_)]*(b\_))^{(n\_)}, x\_Symbol] \rightarrow \text{Simp}[-c^{(-1)} \text{Subst}[\text{Int}[(a + b*x)^n*\text{Csch}[x]*\text{Coth}[x], x], x, \text{ArcCsch}[c*x]], x] /; \text{FreeQ}[\{a, b, c, n\}, x] \&\& \text{IGtQ}[n, 0]$
6835.  $\text{Int}[(a\_ + \text{ArcSech}[(c\_)(x\_)]*(b\_))/(x\_), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b*\text{ArcCosh}[x/c])/x, x], x, 1/x] /; \text{FreeQ}[\{a, b, c\}, x]$
6836.  $\text{Int}[(a\_ + \text{ArcCsch}[(c\_)(x\_)]*(b\_))/(x\_), x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(a + b*\text{ArcSinh}[x/c])/x, x], x, 1/x] /; \text{FreeQ}[\{a, b, c\}, x]$
6837.  $\text{Int}[(a\_ + \text{ArcSech}[(c\_)(x\_)]*(b\_))*((d\_)(x\_))^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[(d*x)^{(m+1)}*((a + b*\text{ArcSech}[c*x])/(d*(m+1))), x] + \text{Simp}[b*(\text{Sqrt}[1 + c*x]/(m+1))*\text{Sqrt}[1/(1 + c*x)] \text{Int}[(d*x)^m/(\text{Sqrt}[1 - c*x]*\text{Sqrt}[1 + c*x]), x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[m, -1]$
6838.  $\text{Int}[(a\_ + \text{ArcCsch}[(c\_)(x\_)]*(b\_))*((d\_)(x\_))^{(m\_)}, x\_Symbol] \rightarrow \text{Simp}[(d*x)^{(m+1)}*((a + b*\text{ArcCsch}[c*x])/(d*(m+1))), x] + \text{Simp}[b*(d/(c*(m+1))) \text{Int}[(d*x)^{(m-1)}/\text{Sqrt}[1 + 1/(c^2*x^2)], x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[m, -1]$

6839.  $\text{Int}[(a + \text{ArcSech}[c \cdot x] \cdot b)^n \cdot x^m, x\_Symbol] \rightarrow$   
 $\text{Simp}[-(c^{m+1})^{-1} \text{Subst}[\text{Int}[(a + b \cdot x)^n \cdot \text{Sech}[x]^{m+1} \cdot \text{Tanh}[x]$   
 $, x], x, \text{ArcSech}[c \cdot x]], x] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{In}$   
 $\text{tegerQ}[m] \ \&\& \ (\text{GtQ}[n, 0] \ || \ \text{LtQ}[m, -1])$
6840.  $\text{Int}[(a + \text{ArcCsch}[c \cdot x] \cdot b)^n \cdot x^m, x\_Symbol] \rightarrow$   
 $\text{Simp}[-(c^{m+1})^{-1} \text{Subst}[\text{Int}[(a + b \cdot x)^n \cdot \text{Csch}[x]^{m+1} \cdot \text{Coth}[x]$   
 $, x], x, \text{ArcCsch}[c \cdot x]], x] /; \text{FreeQ}\{a, b, c, x\} \ \&\& \ \text{IntegerQ}[n] \ \&\& \ \text{In}$   
 $\text{tegerQ}[m] \ \&\& \ (\text{GtQ}[n, 0] \ || \ \text{LtQ}[m, -1])$
6841.  $\text{Int}[(a + \text{ArcSech}[c \cdot x] \cdot b) / (d + e \cdot x), x\_Symbol]$   
 $\rightarrow \text{Simp}[(a + b \cdot \text{ArcSech}[c \cdot x]) \cdot (\text{Log}[1 + (e - \text{Sqrt}[(-c^2) \cdot d^2 + e^2]) / ($   
 $c \cdot d \cdot E^{\text{ArcSech}[c \cdot x]})] / e), x] + (\text{Simp}[(a + b \cdot \text{ArcSech}[c \cdot x]) \cdot (\text{Log}[1 + (e +$   
 $\text{Sqrt}[(-c^2) \cdot d^2 + e^2]) / (c \cdot d \cdot E^{\text{ArcSech}[c \cdot x]})] / e), x] - \text{Simp}[(a + b \cdot \text{Ar}$   
 $\text{cSech}[c \cdot x]) \cdot (\text{Log}[1 + 1 / E^{2 \cdot \text{ArcSech}[c \cdot x]})] / e), x] + \text{Simp}[b / e \ \text{Int}[(\text{Sq}$   
 $\text{rt}[(1 - c \cdot x) / (1 + c \cdot x)] \cdot \text{Log}[1 + (e - \text{Sqrt}[(-c^2) \cdot d^2 + e^2]) / (c \cdot d \cdot E^{\text{Ar}}$   
 $\text{cSech}[c \cdot x])]] / (x \cdot (1 - c \cdot x)), x], x] + \text{Simp}[b / e \ \text{Int}[(\text{Sqrt}[(1 - c \cdot x) / ($   
 $1 + c \cdot x)] \cdot \text{Log}[1 + (e + \text{Sqrt}[(-c^2) \cdot d^2 + e^2]) / (c \cdot d \cdot E^{\text{ArcSech}[c \cdot x]})]] /$   
 $(x \cdot (1 - c \cdot x)), x], x] - \text{Simp}[b / e \ \text{Int}[(\text{Sqrt}[(1 - c \cdot x) / (1 + c \cdot x)] \cdot \text{Log}[$   
 $1 + 1 / E^{2 \cdot \text{ArcSech}[c \cdot x]})] / (x \cdot (1 - c \cdot x)), x], x] /; \text{FreeQ}\{a, b, c, d$   
 $, e\}, x]$
6842.  $\text{Int}[(a + \text{ArcSech}[c \cdot x] \cdot b) \cdot (d + e \cdot x)^m, x\_Symbol] \rightarrow \text{Simp}[(d + e \cdot x)^{m+1} \cdot ((a + b \cdot \text{ArcSech}[c \cdot x]) / (e \cdot (m + 1))),$   
 $x] + \text{Simp}[b \cdot (\text{Sqrt}[1 + c \cdot x] / (e \cdot (m + 1))) \cdot \text{Sqrt}[1 / (1 + c \cdot x)] \ \text{Int}[(d + e$   
 $\cdot x)^{m+1} / (x \cdot \text{Sqrt}[1 - c^2 \cdot x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, m\},$   
 $x] \ \&\& \ \text{NeQ}[m, -1]$
6843.  $\text{Int}[(a + \text{ArcCsch}[c \cdot x] \cdot b) / (d + e \cdot x), x\_Symbol]$   
 $\rightarrow \text{Simp}[(a + b \cdot \text{ArcCsch}[c \cdot x]) \cdot (\text{Log}[1 - (e - \text{Sqrt}[c^2 \cdot d^2 + e^2]) \cdot (E^{\text{Ar}}$   
 $\text{cCsch}[c \cdot x] / (c \cdot d))] / e), x] + (\text{Simp}[(a + b \cdot \text{ArcCsch}[c \cdot x]) \cdot (\text{Log}[1 - (e +$   
 $\text{Sqrt}[c^2 \cdot d^2 + e^2]) \cdot (E^{\text{ArcCsch}[c \cdot x] / (c \cdot d))] / e), x] - \text{Simp}[(a + b \cdot \text{ArcC}$   
 $\text{sch}[c \cdot x]) \cdot (\text{Log}[1 - E^{2 \cdot \text{ArcCsch}[c \cdot x]})] / e), x] + \text{Simp}[b / (c \cdot e) \ \text{Int}[\text{Log}$   
 $[1 - (e - \text{Sqrt}[c^2 \cdot d^2 + e^2]) \cdot (E^{\text{ArcCsch}[c \cdot x] / (c \cdot d)})] / (x^2 \cdot \text{Sqrt}[1 + 1$   
 $/ (c^2 \cdot x^2)]), x], x] + \text{Simp}[b / (c \cdot e) \ \text{Int}[\text{Log}[1 - (e + \text{Sqrt}[c^2 \cdot d^2 +$   
 $e^2]) \cdot (E^{\text{ArcCsch}[c \cdot x] / (c \cdot d)})] / (x^2 \cdot \text{Sqrt}[1 + 1 / (c^2 \cdot x^2)]), x], x] - \text{Si}$   
 $\text{mp}[b / (c \cdot e) \ \text{Int}[\text{Log}[1 - E^{2 \cdot \text{ArcCsch}[c \cdot x]}]] / (x^2 \cdot \text{Sqrt}[1 + 1 / (c^2 \cdot x^2)$

- $$\text{]), x], x]) /; \text{FreeQ}\{a, b, c, d, e\}, x]$$
6844.  $\text{Int}[(a_.) + \text{ArcCsch}[c_.)(x_)]*(b_.))*((d_.) + (e_.)(x_)^m_.)], x\_Symbol] \rightarrow \text{Simp}[(d + e*x)^{m+1}*((a + b*\text{ArcCsch}[c*x])/(e*(m+1))), x] + \text{Simp}[b/(c*e*(m+1)) \text{Int}[(d + e*x)^{m+1}/(x^2*\text{Sqrt}[1 + 1/(c^2*x^2)])], x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[m, -1]$
6845.  $\text{Int}[(a_.) + \text{ArcSech}[c_.)(x_)]*(b_.))*((d_.) + (e_.)(x_)^2)^{p_.}], x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSech}[c*x]) u, x] + \text{Simp}[b*\text{Sqrt}[1 + c*x]*\text{Sqrt}[1/(1 + c*x)] \text{Int}[\text{SimplifyIntegrand}[u/(x*\text{Sqrt}[1 - c*x]*\text{Sqrt}[1 + c*x]), x], x], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& (\text{IGtQ}[p, 0] \parallel \text{ILtQ}[p + 1/2, 0])$
6846.  $\text{Int}[(a_.) + \text{ArcCsch}[c_.)(x_)]*(b_.))*((d_.) + (e_.)(x_)^2)^{p_.}], x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcCsch}[c*x]) u, x] - \text{Simp}[b*c*(x/\text{Sqrt}[(-c^2)*x^2]) \text{Int}[\text{SimplifyIntegrand}[u/(x*\text{Sqrt}[-1 - c^2*x^2]), x], x], x]] /; \text{FreeQ}\{a, b, c, d, e\}, x] \&\& (\text{IGtQ}[p, 0] \parallel \text{ILtQ}[p + 1/2, 0])$
6847.  $\text{Int}[(a_.) + \text{ArcSech}[c_.)(x_)]*(b_.))^{n_.))*((d_.) + (e_.)(x_)^2)^{p_.}], x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcCosh}[x/c])^n/x^{2*(p+1)}), x], x, 1/x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[p]$
6848.  $\text{Int}[(a_.) + \text{ArcCsch}[c_.)(x_)]*(b_.))^{n_.))*((d_.) + (e_.)(x_)^2)^{p_.}], x\_Symbol] \rightarrow -\text{Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcSinh}[x/c])^n/x^{2*(p+1)}), x], x, 1/x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{IntegerQ}[p]$
6849.  $\text{Int}[(a_.) + \text{ArcSech}[c_.)(x_)]*(b_.))^{n_.))*((d_.) + (e_.)(x_)^2)^{p_.}], x\_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[x^2]/x \text{Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcCosh}[x/c])^n/x^{2*(p+1)}), x], x, 1/x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p + 1/2] \&\& \text{GtQ}[e, 0] \&\& \text{LtQ}[d, 0]$

6850.  $\text{Int}[(a_.) + \text{ArcSch}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[x^2]/x \text{ Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcSinh}[x/c])^n/x^{(2*(p + 1))}), x], x, 1/x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[e - c^2*d, 0] \&\& \text{IntegerQ}[p + 1/2] \&\& \text{GtQ}[e, 0] \&\& \text{LtQ}[d, 0]$
6851.  $\text{Int}[(a_.) + \text{ArcSech}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[d + e*x^2]/(x*\text{Sqrt}[e + d/x^2]) \text{ Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcCosh}[x/c])^n/x^{(2*(p + 1))}), x], x, 1/x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[c^2*d + e, 0] \&\& \text{IntegerQ}[p + 1/2] \&\& !(\text{GtQ}[e, 0] \&\& \text{LtQ}[d, 0])$
6852.  $\text{Int}[(a_.) + \text{ArcSch}[(c_.)*(x_)]*(b_.)]^{(n_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[-\text{Sqrt}[d + e*x^2]/(x*\text{Sqrt}[e + d/x^2]) \text{ Subst}[\text{Int}[(e + d*x^2)^p*((a + b*\text{ArcSinh}[x/c])^n/x^{(2*(p + 1))}), x], x, 1/x], x] /; \text{FreeQ}\{a, b, c, d, e, n\}, x] \&\& \text{IGtQ}[n, 0] \&\& \text{EqQ}[e - c^2*d, 0] \&\& \text{IntegerQ}[p + 1/2] \&\& !(\text{GtQ}[e, 0] \&\& \text{LtQ}[d, 0])$
6853.  $\text{Int}[(a_.) + \text{ArcSech}[(c_.)*(x_)]*(b_.)]*(x_)*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(p + 1)}*((a + b*\text{ArcSech}[c*x])/(2*e*(p + 1))), x] + \text{Simp}[b*(\text{Sqrt}[1 + c*x]/(2*e*(p + 1)))*\text{Sqrt}[1/(1 + c*x)] \text{ Int}[(d + e*x^2)^{(p + 1)}/(x*\text{Sqrt}[1 - c*x]*\text{Sqrt}[1 + c*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x] \&\& \text{NeQ}[p, -1]$
6854.  $\text{Int}[(a_.) + \text{ArcSch}[(c_.)*(x_)]*(b_.)]*(x_)*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{Simp}[(d + e*x^2)^{(p + 1)}*((a + b*\text{ArcSch}[c*x])/(2*e*(p + 1))), x] - \text{Simp}[b*c*(x/(2*e*(p + 1)*\text{Sqrt}[(-c^2)*x^2])) \text{ Int}[(d + e*x^2)^{(p + 1)}/(x*\text{Sqrt}[-1 - c^2*x^2]), x], x] /; \text{FreeQ}\{a, b, c, d, e, p\}, x] \&\& \text{NeQ}[p, -1]$
6855.  $\text{Int}[(a_.) + \text{ArcSech}[(c_.)*(x_)]*(b_.)]*((f_.)*(x_))^{(m_.)}*((d_.) + (e_.)*(x_)^2)^{(p_.)}, x\_Symbol] \rightarrow \text{With}\{u = \text{IntHide}[(f*x)^m*(d + e*x^2)^p, x]\}, \text{Simp}[(a + b*\text{ArcSech}[c*x]) u, x] + \text{Simp}[b*\text{Sqrt}[1 + c*x]*\text{Sqrt}[1/(1 + c*x)] \text{ Int}[\text{SimplifyIntegrand}[u/(x*\text{Sqrt}[1 - c*x]*\text{Sqrt}[1 + c*x]), x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x] \&\& ((\text{IGtQ}[p, 0] \&\& !(\text{ILtQ}[(m - 1)/2, 0] \&\& \text{GtQ}[m + 2*p + 3, 0])) || (\text{IGtQ}[(m + 1)/2, 0] \&\& !(\text{ILtQ}[p, 0] \&\& \text{GtQ}[m + 2*p + 3, 0])) || (\text{ILtQ}[(m + 2*p + 1)/2, 0]$

- `] && !ILtQ[(m - 1)/2, 0]))`
6856. `Int[((a_.) + ArcCsch[(c_.)*(x_)]*(b_.))*((f_.)*(x_))^(m_.)*((d_.) + (e_.)*(x_)^2)^(p_.), x_Symbol] := With[{u = IntHide[(f*x)^m*(d + e*x^2)^p, x]}, Simp[(a + b*ArcCsch[c*x]) u, x] - Simp[b*c*(x/Sqrt[(-c^2)*x^2]) Int[SimplifyIntegrand[u/(x*Sqrt[-1 - c^2*x^2]), x], x], x]] /; FreeQ[{a, b, c, d, e, f, m, p}, x] && ((IGtQ[p, 0] && !(ILtQ[(m - 1)/2, 0] && GtQ[m + 2*p + 3, 0])) || (IGtQ[(m + 1)/2, 0] && !(ILtQ[p, 0] && GtQ[m + 2*p + 3, 0])) || (ILtQ[(m + 2*p + 1)/2, 0] && !ILtQ[(m - 1)/2, 0]))`
6857. `Int[((a_.) + ArcSech[(c_.)*(x_)]*(b_.))^(n_.)*(x_)^(m_.)*((d_.) + (e_.)*(x_)^2)^(p_.), x_Symbol] := -Subst[Int[(e + d*x^2)^p*((a + b*ArcCosh[x/c])^n/x^(m + 2*(p + 1)))], x], x, 1/x] /; FreeQ[{a, b, c, d, e, n}, x] && IGtQ[n, 0] && IntegersQ[m, p]`
6858. `Int[((a_.) + ArcCsch[(c_.)*(x_)]*(b_.))^(n_.)*(x_)^(m_.)*((d_.) + (e_.)*(x_)^2)^(p_.), x_Symbol] := -Subst[Int[(e + d*x^2)^p*((a + b*ArcSinh[x/c])^n/x^(m + 2*(p + 1)))], x], x, 1/x] /; FreeQ[{a, b, c, d, e, n}, x] && IGtQ[n, 0] && IntegersQ[m, p]`
6859. `Int[((a_.) + ArcSech[(c_.)*(x_)]*(b_.))^(n_.)*(x_)^(m_.)*((d_.) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[-Sqrt[x^2]/x Subst[Int[(e + d*x^2)^p*((a + b*ArcCosh[x/c])^n/x^(m + 2*(p + 1)))], x], x, 1/x], x] /; FreeQ[{a, b, c, d, e, n}, x] && IGtQ[n, 0] && EqQ[c^2*d + e, 0] && IntegerQ[m] && IntegerQ[p + 1/2] && GtQ[e, 0] && LtQ[d, 0]`
6860. `Int[((a_.) + ArcCsch[(c_.)*(x_)]*(b_.))^(n_.)*(x_)^(m_.)*((d_.) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[-Sqrt[x^2]/x Subst[Int[(e + d*x^2)^p*((a + b*ArcSinh[x/c])^n/x^(m + 2*(p + 1)))], x], x, 1/x], x] /; FreeQ[{a, b, c, d, e, n}, x] && IGtQ[n, 0] && EqQ[e - c^2*d, 0] && IntegerQ[m] && IntegerQ[p + 1/2] && GtQ[e, 0] && LtQ[d, 0]`
6861. `Int[((a_.) + ArcSech[(c_.)*(x_)]*(b_.))^(n_.)*(x_)^(m_.)*((d_.) + (e_.)*(x_)^2)^(p_.), x_Symbol] := Simp[-Sqrt[d + e*x^2]/(x*Sqrt[e + d/x^2]) Subst[Int[(e + d*x^2)^p*((a + b*ArcCosh[x/c])^n/x^(m + 2*(p + 1)))], x], x, 1/x], x] /; FreeQ[{a, b, c, d, e, n}, x] && IGtQ[n, 0] && EqQ[`



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c^2*d + e, 0] && IntegerQ[m] && IntegerQ[p + 1/2] && !(GtQ[e, 0] && LtQ[d, 0])

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6862. `Int[((a_) + ArcCsch[(c_)*(x_)])*(b_)^(n_)*(x_)^(m_)*((d_) + (e_)*(x_)^2)^(p_), x_Symbol] := Simp[-Sqrt[d + e*x^2]/(x*Sqrt[e + d/x^2]) Subst[Int[(e + d*x^2)^p*((a + b*ArcSinh[x/c])^n/x^(m + 2*(p + 1))), x], x, 1/x], x] /; FreeQ[{a, b, c, d, e, n}, x] && IGtQ[n, 0] && EqQ[e - c^2*d, 0] && IntegerQ[m] && IntegerQ[p + 1/2] && !(GtQ[e, 0] && LtQ[d, 0])`
6863. `Int[((a_) + ArcSech[(c_)*(x_)])*(b_)]*(u_), x_Symbol] := With[{v = IntHide[u, x]}, Simp[(a + b*ArcSech[c*x]) v, x] + Simp[b*(Sqrt[1 - c^2*x^2]/(c*x*Sqrt[-1 + 1/(c*x)]*Sqrt[1 + 1/(c*x)])) Int[SimplifyIntegrand[v/(x*Sqrt[1 - c^2*x^2])], x], x], x] /; InverseFunctionFreeQ[v, x] /; FreeQ[{a, b, c}, x]`
6864. `Int[((a_) + ArcCsch[(c_)*(x_)])*(b_)]*(u_), x_Symbol] := With[{v = IntHide[u, x]}, Simp[(a + b*ArcCsch[c*x]) v, x] + Simp[b/c Int[SimplifyIntegrand[v/(x^2*Sqrt[1 + 1/(c^2*x^2)])], x], x], x] /; InverseFunctionFreeQ[v, x] /; FreeQ[{a, b, c}, x]`
6865. `Int[((a_) + ArcSech[(c_)*(x_)])*(b_)^(n_)]*(u_), x_Symbol] := Unintegrable[u*(a + b*ArcSech[c*x])^n, x] /; FreeQ[{a, b, c, n}, x]`
6866. `Int[((a_) + ArcCsch[(c_)*(x_)])*(b_)^(n_)]*(u_), x_Symbol] := Unintegrable[u*(a + b*ArcCsch[c*x])^n, x] /; FreeQ[{a, b, c, n}, x]`
6867. `Int[ArcSech[(c_) + (d_)*(x_)], x_Symbol] := Simp[(c + d*x)*(ArcSech[c + d*x]/d), x] + Int[Sqrt[(1 - c - d*x)/(1 + c + d*x)]/(1 - c - d*x), x] /; FreeQ[{c, d}, x]`
6868. `Int[ArcCsch[(c_) + (d_)*(x_)], x_Symbol] := Simp[(c + d*x)*(ArcCsch[c + d*x]/d), x] + Int[1/((c + d*x)*Sqrt[1 + 1/(c + d*x)^2]), x] /; FreeQ[{c, d}, x]`

6869. $\text{Int}[(a + \text{ArcSech}[c + (d \cdot x)] \cdot b)^p, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b \cdot \text{ArcSech}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{IGtQ}[p, 0]$
6870. $\text{Int}[(a + \text{ArcCsch}[c + (d \cdot x)] \cdot b)^p, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(a + b \cdot \text{ArcCsch}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{IGtQ}[p, 0]$
6871. $\text{Int}[(a + \text{ArcSech}[c + (d \cdot x)] \cdot b)^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcSech}[c + d \cdot x])^p, x] /; \text{FreeQ}\{a, b, c, d, p\}, x] \&\& !\text{IGtQ}[p, 0]$
6872. $\text{Int}[(a + \text{ArcCsch}[c + (d \cdot x)] \cdot b)^p, x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot \text{ArcCsch}[c + d \cdot x])^p, x] /; \text{FreeQ}\{a, b, c, d, p\}, x] \&\& !\text{IGtQ}[p, 0]$
6873. $\text{Int}[(a + \text{ArcSech}[c + (d \cdot x)] \cdot b)^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(f \cdot (x/d))^m \cdot (a + b \cdot \text{ArcSech}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[d \cdot e - c \cdot f, 0] \&\& \text{IGtQ}[p, 0]$
6874. $\text{Int}[(a + \text{ArcCsch}[c + (d \cdot x)] \cdot b)^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(f \cdot (x/d))^m \cdot (a + b \cdot \text{ArcCsch}[x])^p, x], x, c + d \cdot x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{EqQ}[d \cdot e - c \cdot f, 0] \&\& \text{IGtQ}[p, 0]$
6875. $\text{Int}[(a + \text{ArcSech}[c + (d \cdot x)] \cdot b)^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[-(d^{m+1})^{-1} \text{ Subst}[\text{Int}[(a + b \cdot x)^p \cdot \text{Sech}[x] \cdot \text{Tanh}[x] \cdot (d \cdot e - c \cdot f + f \cdot \text{Sech}[x])^m, x], x, \text{ArcSech}[c + d \cdot x]], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IntegerQ}[m]$
6876. $\text{Int}[(a + \text{ArcCsch}[c + (d \cdot x)] \cdot b)^p \cdot (e + f \cdot x)^m, x_Symbol] \rightarrow \text{Simp}[-(d^{m+1})^{-1} \text{ Subst}[\text{Int}[(a + b \cdot x)^p \cdot \text{Csch}[x] \cdot \text{Coth}[x] \cdot (d \cdot e - c \cdot f + f \cdot \text{Csch}[x])^m, x], x, \text{ArcCsch}[c + d \cdot x]], x] /; \text{FreeQ}\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[p, 0] \&\& \text{IntegerQ}[m]$

6877. $\text{Int}[(a_.) + \text{ArcSech}[(c_.) + (d_.)*(x_)]*(b_.)]^{(p_.)}*((e_.) + (f_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d*e - c*f)/d + f*(x/d)]^{m*(a + b*\text{ArcSech}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{IGtQ}[p, 0]$
6878. $\text{Int}[(a_.) + \text{ArcCsch}[(c_.) + (d_.)*(x_)]*(b_.)]^{(p_.)}*((e_.) + (f_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[1/d \text{ Subst}[\text{Int}[(d*e - c*f)/d + f*(x/d)]^{m*(a + b*\text{ArcCsch}[x])^p, x], x, c + d*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, m\}, x] \&\& \text{IGtQ}[p, 0]$
6879. $\text{Int}[(a_.) + \text{ArcSech}[(c_.) + (d_.)*(x_)]*(b_.)]^{(p_.)}*((e_.) + (f_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^{m*(a + b*\text{ArcSech}[c + d*x])^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x] \&\& !\text{IGtQ}[p, 0]$
6880. $\text{Int}[(a_.) + \text{ArcCsch}[(c_.) + (d_.)*(x_)]*(b_.)]^{(p_.)}*((e_.) + (f_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(e + f*x)^{m*(a + b*\text{ArcCsch}[c + d*x])^p, x] /; \text{FreeQ}\{a, b, c, d, e, f, m, p\}, x] \&\& !\text{IGtQ}[p, 0]$
6881. $\text{Int}[\text{ArcSech}[(c_.)/(a_.) + (b_.)*(x_)^{(n_.)}]]^{(m_.)}*(u_.), x_Symbol] \rightarrow \text{Int}[u*\text{ArcCosh}[a/c + b*(x^n/c)]^m, x] /; \text{FreeQ}\{a, b, c, n, m\}, x]$
6882. $\text{Int}[\text{ArcCsch}[(c_.)/(a_.) + (b_.)*(x_)^{(n_.)}]]^{(m_.)}*(u_.), x_Symbol] \rightarrow \text{Int}[u*\text{ArcSinh}[a/c + b*(x^n/c)]^m, x] /; \text{FreeQ}\{a, b, c, n, m\}, x]$
6883. $\text{Int}[E^{\text{ArcSech}[(a_.)*(x_)]}, x_Symbol] \rightarrow \text{Simp}[x*E^{\text{ArcSech}[a*x]}, x] + (\text{Simp}[\text{Log}[x]/a, x] + \text{Simp}[1/a \text{ Int}[(1/(x*(1 - a*x)))*\text{Sqrt}[(1 - a*x)/(1 + a*x)], x], x]) /; \text{FreeQ}[a, x]$
6884. $\text{Int}[E^{\text{ArcSech}[(a_.)*(x_)]^{(p_.)}}, x_Symbol] \rightarrow \text{Simp}[x*E^{\text{ArcSech}[a*x^p]}, x] + (\text{Simp}[p/a \text{ Int}[1/x^p, x], x] + \text{Simp}[p*(\text{Sqrt}[1 + a*x^p]/a)*\text{Sqrt}[1/(1 + a*x^p)] \text{ Int}[1/(x^p*\text{Sqrt}[1 + a*x^p]*\text{Sqrt}[1 - a*x^p]), x], x]) /; \text{FreeQ}\{a, p\}, x]$
6885. $\text{Int}[E^{\text{ArcCsch}[(a_.)*(x_)]^{(p_.)}}, x_Symbol] \rightarrow \text{Simp}[1/a \text{ Int}[1/x^p, x], x] + \text{Int}[\text{Sqrt}[1 + 1/(a^2*x^{(2*p)})], x] /; \text{FreeQ}\{a, p\}, x]$

6886. $\text{Int}[E^{(\text{ArcSech}[u_]*(n_))}, x_Symbol] \rightarrow \text{Int}[(1/u + \text{Sqrt}[(1 - u)/(1 + u)]) + (1/u)*\text{Sqrt}[(1 - u)/(1 + u))]^n, x] /; \text{IntegerQ}[n]$
6887. $\text{Int}[E^{(\text{ArcCsch}[u_]*(n_))}, x_Symbol] \rightarrow \text{Int}[(1/u + \text{Sqrt}[1 + 1/u^2])]^n, x] /; \text{IntegerQ}[n]$
6888. $\text{Int}[E^{\text{ArcSech}[(a_)*(x_)]^{(p_)]}/(x_), x_Symbol] \rightarrow -\text{Simp}[(a*p*x^p)^{-1}], x] + \text{Simp}[(\text{Sqrt}[1 + a*x^p]/a)*\text{Sqrt}[1/(1 + a*x^p)] \text{Int}[\text{Sqrt}[1 + a*x^p]*(\text{Sqrt}[1 - a*x^p]/x^{(p + 1)}), x], x] /; \text{FreeQ}\{a, p\}, x]$
6889. $\text{Int}[E^{\text{ArcSech}[(a_)*(x_)]^{(p_)]*(x_)]^{(m_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*(E^{\text{ArcSech}[a*x^p]/(m + 1)}), x] + (\text{Simp}[p/(a*(m + 1)) \text{Int}[x^{(m - p)}, x], x] + \text{Simp}[p*(\text{Sqrt}[1 + a*x^p]/(a*(m + 1)))*\text{Sqrt}[1/(1 + a*x^p)] \text{Int}[x^{(m - p)}/(\text{Sqrt}[1 + a*x^p]*\text{Sqrt}[1 - a*x^p]), x], x]) /; \text{FreeQ}\{a, m, p\}, x] \&\& \text{NeQ}[m, -1]$
6890. $\text{Int}[E^{\text{ArcCsch}[(a_)*(x_)]^{(p_)]*(x_)]^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/a \text{Int}[x^{(m - p)}, x], x] + \text{Int}[x^m*\text{Sqrt}[1 + 1/(a^2*x^{(2*p)})], x] /; \text{FreeQ}\{a, m, p\}, x]$
6891. $\text{Int}[E^{(\text{ArcSech}[u_]*(n_))*(x_)]^{(m_)}, x_Symbol] \rightarrow \text{Int}[x^m*(1/u + \text{Sqrt}[(1 - u)/(1 + u)] + (1/u)*\text{Sqrt}[(1 - u)/(1 + u)])^n, x] /; \text{FreeQ}[m, x] \&\& \text{IntegerQ}[n]$
6892. $\text{Int}[E^{(\text{ArcCsch}[u_]*(n_))*(x_)]^{(m_)}, x_Symbol] \rightarrow \text{Int}[x^m*(1/u + \text{Sqrt}[1 + 1/u^2])]^n, x] /; \text{FreeQ}[m, x] \&\& \text{IntegerQ}[n]$
6893. $\text{Int}[E^{\text{ArcSech}[(c_)*(x_)]}/((a_) + (b_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/(a*c) \text{Int}[\text{Sqrt}[1/(1 + c*x)]/(x*\text{Sqrt}[1 - c*x]), x], x] + \text{Simp}[1/c \text{Int}[1/(x*(a + b*x^2)), x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[b + a*c^2, 0]$
6894. $\text{Int}[E^{\text{ArcCsch}[(c_)*(x_)]}/((a_) + (b_)*(x_)^2), x_Symbol] \rightarrow \text{Simp}[1/(a*c^2) \text{Int}[1/(x^2*\text{Sqrt}[1 + 1/(c^2*x^2)]), x], x] + \text{Simp}[1/c \text{Int}[1/(x*(a + b*x^2)), x], x] /; \text{FreeQ}\{a, b, c\}, x] \&\& \text{EqQ}[b - a*c^2, 0]$

6895. $\text{Int}[(E^{\text{ArcSech}[(c_)\cdot(x_)]}\cdot((d_)\cdot(x_))^{\text{m_}})/((a_)+(b_)\cdot(x_)^2), x_Symbol] \rightarrow \text{Simp}[d/(a\cdot c) \text{ Int}[(d\cdot x)^{\text{m}-1}\cdot(\text{Sqrt}[1/(1+c\cdot x)])/ \text{Sqrt}[1-c\cdot x]), x], x] + \text{Simp}[d/c \text{ Int}[(d\cdot x)^{\text{m}-1}/(a+b\cdot x^2), x], x] / ; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{EqQ}[b+a\cdot c^2, 0]$
6896. $\text{Int}[(E^{\text{ArcCsch}[(c_)\cdot(x_)]}\cdot((d_)\cdot(x_))^{\text{m_}})/((a_)+(b_)\cdot(x_)^2), x_Symbol] \rightarrow \text{Simp}[d^2/(a\cdot c^2) \text{ Int}[(d\cdot x)^{\text{m}-2}/\text{Sqrt}[1+1/(c^2\cdot x^2)], x], x] + \text{Simp}[d/c \text{ Int}[(d\cdot x)^{\text{m}-1}/(a+b\cdot x^2), x], x] / ; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{EqQ}[b-a\cdot c^2, 0]$
6897. $\text{Int}[\text{ArcSech}[u_], x_Symbol] \rightarrow \text{Simp}[x\cdot \text{ArcSech}[u], x] + \text{Simp}[\text{Sqrt}[1-u^2]/(u\cdot \text{Sqrt}[-1+1/u]\cdot \text{Sqrt}[1+1/u]) \text{ Int}[\text{SimplifyIntegrand}[x\cdot (D[u, x]/(u\cdot \text{Sqrt}[1-u^2])), x], x], x] / ; \text{InverseFunctionFreeQ}[u, x] \&\& \text{!FunctionOfExponentialQ}[u, x]$
6898. $\text{Int}[\text{ArcCsch}[u_], x_Symbol] \rightarrow \text{Simp}[x\cdot \text{ArcCsch}[u], x] - \text{Simp}[u/\text{Sqrt}[-u^2] \text{ Int}[\text{SimplifyIntegrand}[x\cdot (D[u, x]/(u\cdot \text{Sqrt}[-1-u^2])), x], x], x] / ; \text{InverseFunctionFreeQ}[u, x] \&\& \text{!FunctionOfExponentialQ}[u, x]$
6899. $\text{Int}[((a_)+\text{ArcSech}[u_]\cdot(b_))\cdot((c_)+(d_)\cdot(x_))^{\text{m_}}, x_Symbol] \rightarrow \text{Simp}[(c+d\cdot x)^{\text{m}+1}\cdot((a+b\cdot \text{ArcSech}[u])/(d\cdot(\text{m}+1))), x] + \text{Simp}[b\cdot(\text{Sqrt}[1-u^2]/(d\cdot(\text{m}+1)\cdot u\cdot \text{Sqrt}[-1+1/u]\cdot \text{Sqrt}[1+1/u])) \text{ Int}[\text{SimplifyIntegrand}[(c+d\cdot x)^{\text{m}+1}\cdot(D[u, x]/(u\cdot \text{Sqrt}[1-u^2])), x], x], x] / ; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[m, -1] \&\& \text{InverseFunctionFreeQ}[u, x] \&\& \text{!FunctionOfQ}[(c+d\cdot x)^{\text{m}+1}, u, x] \&\& \text{!FunctionOfExponentialQ}[u, x]$
6900. $\text{Int}[((a_)+\text{ArcCsch}[u_]\cdot(b_))\cdot((c_)+(d_)\cdot(x_))^{\text{m_}}, x_Symbol] \rightarrow \text{Simp}[(c+d\cdot x)^{\text{m}+1}\cdot((a+b\cdot \text{ArcCsch}[u])/(d\cdot(\text{m}+1))), x] - \text{Simp}[b\cdot(u/(d\cdot(\text{m}+1)\cdot \text{Sqrt}[-u^2])) \text{ Int}[\text{SimplifyIntegrand}[(c+d\cdot x)^{\text{m}+1}\cdot(D[u, x]/(u\cdot \text{Sqrt}[-1-u^2])), x], x], x] / ; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[m, -1] \&\& \text{InverseFunctionFreeQ}[u, x] \&\& \text{!FunctionOfQ}[(c+d\cdot x)^{\text{m}+1}, u, x] \&\& \text{!FunctionOfExponentialQ}[u, x]$
6901. $\text{Int}[((a_)+\text{ArcSech}[u_]\cdot(b_))\cdot(v_), x_Symbol] \rightarrow \text{With}[\{w = \text{IntHide}[v, x]\}, \text{Simp}[(a+b\cdot \text{ArcSech}[u]) \cdot w, x] + \text{Simp}[b\cdot(\text{Sqrt}[1-u^2]/(u\cdot \text{Sqrt}[-1+1/u]\cdot \text{Sqrt}[1+1/u])) \text{ Int}[\text{SimplifyIntegrand}[w\cdot(D[u, x]/(u\cdot \text{Sqrt}[-1+1/u]\cdot \text{Sqrt}[1+1/u])), x], x], x] / ; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[m, -1] \&\& \text{InverseFunctionFreeQ}[u, x] \&\& \text{!FunctionOfQ}[(c+d\cdot x)^{\text{m}+1}, u, x] \&\& \text{!FunctionOfExponentialQ}[u, x]$

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1 - u^2))), x], x], x] /; InverseFunctionFreeQ[w, x]] /; FreeQ[{a, b},
x] && InverseFunctionFreeQ[u, x] && !MatchQ[v, ((c_.) + (d_.)*x)^(m_
.)] /; FreeQ[{c, d, m}, x]]

6902. Int[((a_.) + ArcCsch[u_]*(b_.))*(v_), x_Symbol] := With[{w = IntHide[v
, x]}, Simp[(a + b*ArcCsch[u]) w, x] - Simp[b*(u/Sqrt[-u^2]) Int[S
implifyIntegrand[w*(D[u, x]/(u*Sqrt[-1 - u^2])), x], x], x] /; Inverse
FunctionFreeQ[w, x]] /; FreeQ[{a, b}, x] && InverseFunctionFreeQ[u, x]
&& !MatchQ[v, ((c_.) + (d_.)*x)^(m_.)] /; FreeQ[{c, d, m}, x]]

6903. Int[Erf[(a_.) + (b_.)*(x_)], x_Symbol] := Simp[(a + b*x)*(Erf[a + b*x]
/b), x] + Simp[1/(b*Sqrt[Pi]*E^(a + b*x)^2), x] /; FreeQ[{a, b}, x]

6904. Int[Erfc[(a_.) + (b_.)*(x_)], x_Symbol] := Simp[(a + b*x)*(Erfc[a + b*x]
/b), x] - Simp[1/(b*Sqrt[Pi]*E^(a + b*x)^2), x] /; FreeQ[{a, b}, x]

6905. Int[Erfi[(a_.) + (b_.)*(x_)], x_Symbol] := Simp[(a + b*x)*(Erfi[a + b*x]
/b), x] - Simp[E^(a + b*x)^2/(b*Sqrt[Pi]), x] /; FreeQ[{a, b}, x]

6906. Int[Erf[(a_.) + (b_.)*(x_)]^2, x_Symbol] := Simp[(a + b*x)*(Erf[a + b*x]
^2/b), x] - Simp[4/Sqrt[Pi] Int[(a + b*x)*(Erf[a + b*x]/E^(a + b*x)
)^2), x], x] /; FreeQ[{a, b}, x]

6907. Int[Erfc[(a_.) + (b_.)*(x_)]^2, x_Symbol] := Simp[(a + b*x)*(Erfc[a +
b*x]^2/b), x] + Simp[4/Sqrt[Pi] Int[(a + b*x)*(Erfc[a + b*x]/E^(a +
b*x)^2), x], x] /; FreeQ[{a, b}, x]

6908. Int[Erfi[(a_.) + (b_.)*(x_)]^2, x_Symbol] := Simp[(a + b*x)*(Erfi[a +
b*x]^2/b), x] - Simp[4/Sqrt[Pi] Int[(a + b*x)*E^(a + b*x)^2*Erfi[a +
b*x], x], x] /; FreeQ[{a, b}, x]

6909. Int[Erf[(a_.) + (b_.)*(x_)]^(n_), x_Symbol] := Unintegrable[Erf[a + b*x]
^n, x] /; FreeQ[{a, b, n}, x] && NeQ[n, 1] && NeQ[n, 2]

6910. Int[Erfc[(a_.) + (b_.)*(x_)]^(n_), x_Symbol] := Unintegrable[Erfc[a +
b*x]^n, x] /; FreeQ[{a, b, n}, x] && NeQ[n, 1] && NeQ[n, 2]

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6911.  $\text{Int}[\text{Erfi}[(a_.) + (b_.)(x_)]^{(n_.)}, x\_Symbol] \rightarrow \text{Unintegrable}[\text{Erfi}[a + b*x]^n, x] /; \text{FreeQ}[\{a, b, n\}, x] \ \&\& \ \text{NeQ}[n, 1] \ \&\& \ \text{NeQ}[n, 2]$
6912.  $\text{Int}[\text{Erf}[(b_.)(x_)]/(x_), x\_Symbol] \rightarrow \text{Simp}[2*b*(x/\text{Sqrt}[\text{Pi}])*HypergeometricPFQ[\{1/2, 1/2\}, \{3/2, 3/2\}, (-b^2)*x^2], x] /; \text{FreeQ}[b, x]$
6913.  $\text{Int}[\text{Erfc}[(b_.)(x_)]/(x_), x\_Symbol] \rightarrow \text{Simp}[\text{Log}[x], x] - \text{Int}[\text{Erf}[b*x]/x, x] /; \text{FreeQ}[b, x]$
6914.  $\text{Int}[\text{Erfi}[(b_.)(x_)]/(x_), x\_Symbol] \rightarrow \text{Simp}[2*b*(x/\text{Sqrt}[\text{Pi}])*HypergeometricPFQ[\{1/2, 1/2\}, \{3/2, 3/2\}, b^2*x^2], x] /; \text{FreeQ}[b, x]$
6915.  $\text{Int}[\text{Erf}[(a_.) + (b_.)(x_)]*((c_.) + (d_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{Erf}[a + b*x]/(d*(m + 1))), x] - \text{Simp}[2*(b/(\text{Sqrt}[\text{Pi}]*d*(m + 1))) \text{Int}[(c + d*x)^{(m + 1)}/E^{(a + b*x)^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{NeQ}[m, -1]$
6916.  $\text{Int}[\text{Erfc}[(a_.) + (b_.)(x_)]*((c_.) + (d_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{Erfc}[a + b*x]/(d*(m + 1))), x] + \text{Simp}[2*(b/(\text{Sqrt}[\text{Pi}]*d*(m + 1))) \text{Int}[(c + d*x)^{(m + 1)}/E^{(a + b*x)^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{NeQ}[m, -1]$
6917.  $\text{Int}[\text{Erfi}[(a_.) + (b_.)(x_)]*((c_.) + (d_.)(x_))^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{Erfi}[a + b*x]/(d*(m + 1))), x] - \text{Simp}[2*(b/(\text{Sqrt}[\text{Pi}]*d*(m + 1))) \text{Int}[(c + d*x)^{(m + 1)}/E^{(a + b*x)^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \ \&\& \ \text{NeQ}[m, -1]$
6918.  $\text{Int}[\text{Erf}[(b_.)(x_)]^2*(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*(\text{Erf}[b*x]^{2/(m + 1)}), x] - \text{Simp}[4*(b/(\text{Sqrt}[\text{Pi}]*(m + 1))) \text{Int}[(x^{(m + 1)}*\text{Erf}[b*x])/E^{(b^2*x^2)}, x], x] /; \text{FreeQ}[b, x] \ \&\& \ (\text{IGtQ}[m, 0] \ || \ \text{ILtQ}[(m + 1)/2, 0])$
6919.  $\text{Int}[\text{Erfc}[(b_.)(x_)]^2*(x_)^{(m_.)}, x\_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*(\text{Erfc}[b*x]^{2/(m + 1)}), x] + \text{Simp}[4*(b/(\text{Sqrt}[\text{Pi}]*(m + 1))) \text{Int}[(x^{(m + 1)}*\text{Erfc}[b*x]^{2/(m + 1)}), x]]$

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fc[b*x])/E^(b^2*x^2), x], x] /; FreeQ[b, x] && (IGtQ[m, 0] || ILtQ[(m
+ 1)/2, 0])

6920. Int[Erfi[(b_.)*(x_)]^2*(x_)^(m_.), x_Symbol] := Simp[x^(m + 1)*(Erfi[b
*x]^2/(m + 1)), x] - Simp[4*(b/(Sqrt[Pi]*(m + 1))) Int[x^(m + 1)*E^(
b^2*x^2)*Erfi[b*x], x], x] /; FreeQ[b, x] && (IGtQ[m, 0] || ILtQ[(m +
1)/2, 0])

6921. Int[Erf[(a_) + (b_.)*(x_)]^2*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :=
Simp[1/b^(m + 1) Subst[Int[ExpandIntegrand[Erf[x]^2, (b*c - a*d + d*
x)^m, x], x], x, a + b*x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[m, 0]

6922. Int[Erfc[(a_) + (b_.)*(x_)]^2*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :=
Simp[1/b^(m + 1) Subst[Int[ExpandIntegrand[Erfc[x]^2, (b*c - a*d +
d*x)^m, x], x], x, a + b*x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[m, 0
]

6923. Int[Erfi[(a_) + (b_.)*(x_)]^2*((c_.) + (d_.)*(x_))^(m_.), x_Symbol] :=
Simp[1/b^(m + 1) Subst[Int[ExpandIntegrand[Erfi[x]^2, (b*c - a*d +
d*x)^m, x], x], x, a + b*x], x] /; FreeQ[{a, b, c, d}, x] && IGtQ[m, 0
]

6924. Int[Erf[(a_.) + (b_.)*(x_)]^(n_.)*((c_.) + (d_.)*(x_))^(m_.), x_Symbol
] := Unintegrable[(c + d*x)^m*Erf[a + b*x]^n, x] /; FreeQ[{a, b, c, d,
m, n}, x]

6925. Int[Erfc[(a_.) + (b_.)*(x_)]^(n_.)*((c_.) + (d_.)*(x_))^(m_.), x_Symbo
l] := Unintegrable[(c + d*x)^m*Erfc[a + b*x]^n, x] /; FreeQ[{a, b, c,
d, m, n}, x]

6926. Int[Erfi[(a_.) + (b_.)*(x_)]^(n_.)*((c_.) + (d_.)*(x_))^(m_.), x_Symbo
l] := Unintegrable[(c + d*x)^m*Erfi[a + b*x]^n, x] /; FreeQ[{a, b, c,
d, m, n}, x]

6927. Int[E^((c_.) + (d_.)*(x_)^2)*Erf[(b_.)*(x_)]^(n_.), x_Symbol] := Simp[
E^c*(Sqrt[Pi]/(2*b)) Subst[Int[x^n, x], x, Erf[b*x]], x] /; FreeQ[{b

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- , c, d, n}, x] && EqQ[d, -b^2]
6928. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfc}[(b_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp} [(-E^c)(\text{Sqrt}[\text{Pi}]/(2*b)) \text{Subst}[\text{Int}[x^n, x], x, \text{Erfc}[b*x]], x] /;$ FreeQ[{b, c, d, n}, x] && EqQ[d, -b^2]
6929. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfi}[(b_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp} [E^c(\text{Sqrt}[\text{Pi}]/(2*b)) \text{Subst}[\text{Int}[x^n, x], x, \text{Erfi}[b*x]], x] /;$ FreeQ[{b, c, d, n}, x] && EqQ[d, b^2]
6930. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erf}[(b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[b * E^c * (x^2/\text{Sqrt}[\text{Pi}]) * \text{HypergeometricPFQ}[\{1, 1\}, \{3/2, 2\}, b^2 * x^2], x] /;$ FreeQ[{b, c, d}, x] && EqQ[d, b^2]
6931. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfc}[(b_.)(x_)], x_Symbol] \rightarrow \text{Int}[E^{(c + d*x^2)}, x] - \text{Int}[E^{(c + d*x^2)} \text{Erf}[b*x], x] /;$ FreeQ[{b, c, d}, x] && EqQ[d, b^2]
6932. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfi}[(b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[b * E^c * (x^2/\text{Sqrt}[\text{Pi}]) * \text{HypergeometricPFQ}[\{1, 1\}, \{3/2, 2\}, (-b^2) * x^2], x] /;$ FreeQ[{b, c, d}, x] && EqQ[d, -b^2]
6933. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erf}[(a_.) + (b_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrable}[E^{(c + d*x^2)} \text{Erf}[a + b*x]^n, x] /;$ FreeQ[{a, b, c, d, n}, x]
6934. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfc}[(a_.) + (b_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrable}[E^{(c + d*x^2)} \text{Erfc}[a + b*x]^n, x] /;$ FreeQ[{a, b, c, d, n}, x]
6935. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfi}[(a_.) + (b_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrable}[E^{(c + d*x^2)} \text{Erfi}[a + b*x]^n, x] /;$ FreeQ[{a, b, c, d, n}, x]
6936. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erf}[(a_.) + (b_.)(x_)] * (x_), x_Symbol] \rightarrow \text{Simp}[E^{(c + d*x^2)} (\text{Erf}[a + b*x]/(2*d)), x] - \text{Simp}[b/(d * \text{Sqrt}[\text{Pi}])]$

- $\text{Int}[E^{(-a^2 + c - 2*a*b*x - (b^2 - d)*x^2)}, x], x] /; \text{FreeQ}\{a, b, c, d\}, x]$
6937. $\text{Int}[E^{((c_.) + (d_.)*(x_)^2)*\text{Erfc}[(a_.) + (b_.)*(x_)]*(x_)}, x_Symbol]$
 $:\> \text{Simp}[E^{(c + d*x^2)*(\text{Erfc}[a + b*x]/(2*d))}, x] + \text{Simp}[b/(d*\text{Sqrt}[\text{Pi}])$
 $\text{Int}[E^{(-a^2 + c - 2*a*b*x - (b^2 - d)*x^2)}, x], x] /; \text{FreeQ}\{a, b, c, d\}, x]$
6938. $\text{Int}[E^{((c_.) + (d_.)*(x_)^2)*\text{Erfi}[(a_.) + (b_.)*(x_)]*(x_)}, x_Symbol]$
 $:\> \text{Simp}[E^{(c + d*x^2)*(\text{Erfi}[a + b*x]/(2*d))}, x] - \text{Simp}[b/(d*\text{Sqrt}[\text{Pi}])$
 $\text{Int}[E^{(a^2 + c + 2*a*b*x + (b^2 + d)*x^2)}, x], x] /; \text{FreeQ}\{a, b, c, d\}, x]$
6939. $\text{Int}[E^{((c_.) + (d_.)*(x_)^2)*\text{Erf}[(a_.) + (b_.)*(x_)]*(x_)^(m_)}, x_Symbol]$
 $:\> \text{Simp}[x^{(m - 1)*E^{(c + d*x^2)*(\text{Erf}[a + b*x]/(2*d))}, x] + (-\text{Simp}[(m - 1)/(2*d)$
 $\text{Int}[x^{(m - 2)*E^{(c + d*x^2)*\text{Erf}[a + b*x]}, x], x] - \text{Simp}[b/(d*\text{Sqrt}[\text{Pi}])$
 $\text{Int}[x^{(m - 1)*E^{(-a^2 + c - 2*a*b*x - (b^2 - d)*x^2)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{IGtQ}[m, 1]$
6940. $\text{Int}[E^{((c_.) + (d_.)*(x_)^2)*\text{Erfc}[(a_.) + (b_.)*(x_)]*(x_)^(m_)}, x_Symbol]$
 $:\> \text{Simp}[x^{(m - 1)*E^{(c + d*x^2)*(\text{Erfc}[a + b*x]/(2*d))}, x] + (-\text{Simp}[(m - 1)/(2*d)$
 $\text{Int}[x^{(m - 2)*E^{(c + d*x^2)*\text{Erfc}[a + b*x]}, x], x] + \text{Simp}[b/(d*\text{Sqrt}[\text{Pi}])$
 $\text{Int}[x^{(m - 1)*E^{(-a^2 + c - 2*a*b*x - (b^2 - d)*x^2)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{IGtQ}[m, 1]$
6941. $\text{Int}[E^{((c_.) + (d_.)*(x_)^2)*\text{Erfi}[(a_.) + (b_.)*(x_)]*(x_)^(m_)}, x_Symbol]$
 $:\> \text{Simp}[x^{(m - 1)*E^{(c + d*x^2)*(\text{Erfi}[a + b*x]/(2*d))}, x] + (-\text{Simp}[(m - 1)/(2*d)$
 $\text{Int}[x^{(m - 2)*E^{(c + d*x^2)*\text{Erfi}[a + b*x]}, x], x] - \text{Simp}[b/(d*\text{Sqrt}[\text{Pi}])$
 $\text{Int}[x^{(m - 1)*E^{(a^2 + c + 2*a*b*x + (b^2 + d)*x^2)}, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{IGtQ}[m, 1]$
6942. $\text{Int}[(E^{((c_.) + (d_.)*(x_)^2)*\text{Erf}[(b_.)*(x_)]})/(x_), x_Symbol] :\> \text{Simp}$
 $[2*b*E^c*(x/\text{Sqrt}[\text{Pi}])*HypergeometricPFQ[\{1/2, 1\}, \{3/2, 3/2\}, b^2*x^2]$
 $, x] /; \text{FreeQ}\{b, c, d\}, x] \&\& \text{EqQ}[d, b^2]$

6943. $\text{Int}[(E^{((c_.) + (d_.)(x_)^2)} \text{Erfc}[(b_.)(x_)]) / (x_), x_Symbol] \rightarrow \text{Int}[E^{(c + d*x^2)} / x, x] - \text{Int}[E^{(c + d*x^2)} (\text{Erf}[b*x] / x), x] /; \text{FreeQ}[\{b, c, d\}, x] \ \&\& \ \text{EqQ}[d, b^2]$
6944. $\text{Int}[(E^{((c_.) + (d_.)(x_)^2)} \text{Erfi}[(b_.)(x_)]) / (x_), x_Symbol] \rightarrow \text{Simp}[2*b*E^c*(x/\text{Sqrt}[\text{Pi}])*HypergeometricPFQ[\{1/2, 1\}, \{3/2, 3/2\}, (-b^2)*x^2], x] /; \text{FreeQ}[\{b, c, d\}, x] \ \&\& \ \text{EqQ}[d, -b^2]$
6945. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erf}[(a_.) + (b_.)(x_)]*(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*E^{(c + d*x^2)}*(\text{Erf}[a + b*x] / (m + 1)), x] + (-\text{Simp}[2*(d/(m + 1)) \text{Int}[x^{(m+2)}*E^{(c + d*x^2)}*\text{Erf}[a + b*x], x], x] - \text{Simp}[2*(b/((m + 1)*\text{Sqrt}[\text{Pi}])) \text{Int}[x^{(m+1)}*E^{(-a^2 + c - 2*a*b*x - (b^2 - d)*x^2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{ILtQ}[m, -1]$
6946. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfc}[(a_.) + (b_.)(x_)]*(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*E^{(c + d*x^2)}*(\text{Erfc}[a + b*x] / (m + 1)), x] + (-\text{Simp}[2*(d/(m + 1)) \text{Int}[x^{(m+2)}*E^{(c + d*x^2)}*\text{Erfc}[a + b*x], x], x] + \text{Simp}[2*(b/((m + 1)*\text{Sqrt}[\text{Pi}])) \text{Int}[x^{(m+1)}*E^{(-a^2 + c - 2*a*b*x - (b^2 - d)*x^2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{ILtQ}[m, -1]$
6947. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfi}[(a_.) + (b_.)(x_)]*(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*E^{(c + d*x^2)}*(\text{Erfi}[a + b*x] / (m + 1)), x] + (-\text{Simp}[2*(d/(m + 1)) \text{Int}[x^{(m+2)}*E^{(c + d*x^2)}*\text{Erfi}[a + b*x], x], x] - \text{Simp}[2*(b/((m + 1)*\text{Sqrt}[\text{Pi}])) \text{Int}[x^{(m+1)}*E^{(a^2 + c + 2*a*b*x + (b^2 + d)*x^2)}, x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \ \&\& \ \text{ILtQ}[m, -1]$
6948. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erf}[(a_.) + (b_.)(x_)]^{(n_.)}*((e_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[E^{(c + d*x^2)}*(e*x)^m*\text{Erf}[a + b*x]^n, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$
6949. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfc}[(a_.) + (b_.)(x_)]^{(n_.)}*((e_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[E^{(c + d*x^2)}*(e*x)^m*\text{Erfc}[a + b*x]^n, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$
6950. $\text{Int}[E^{((c_.) + (d_.)(x_)^2)} \text{Erfi}[(a_.) + (b_.)(x_)]^{(n_.)}*((e_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[E^{(c + d*x^2)}*(e*x)^m*\text{Erfi}[a + b*x]^n, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$

- $$]^{n}, x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$$
6951. $\text{Int}[\text{Erf}[(a_{.}) + \text{Log}[(c_{.}) \cdot (x_{.})^{(n_{.})}] \cdot (b_{.})] \cdot (d_{.})], x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot \text{Erf}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])], x] - \text{Simp}[2 \cdot b \cdot d \cdot (n / \text{Sqrt}[\text{Pi}]) \text{Int}[1 / \text{E}^{(d \cdot (a + b \cdot \text{Log}[c \cdot x^n]))^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
6952. $\text{Int}[\text{Erfc}[(a_{.}) + \text{Log}[(c_{.}) \cdot (x_{.})^{(n_{.})}] \cdot (b_{.})] \cdot (d_{.})], x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot \text{Erfc}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])], x] + \text{Simp}[2 \cdot b \cdot d \cdot (n / \text{Sqrt}[\text{Pi}]) \text{Int}[1 / \text{E}^{(d \cdot (a + b \cdot \text{Log}[c \cdot x^n]))^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
6953. $\text{Int}[\text{Erfi}[(a_{.}) + \text{Log}[(c_{.}) \cdot (x_{.})^{(n_{.})}] \cdot (b_{.})] \cdot (d_{.})], x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot \text{Erfi}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])], x] - \text{Simp}[2 \cdot b \cdot d \cdot (n / \text{Sqrt}[\text{Pi}]) \text{Int}[\text{E}^{(d \cdot (a + b \cdot \text{Log}[c \cdot x^n]))^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
6954. $\text{Int}[(F_{.})[(a_{.}) + \text{Log}[(c_{.}) \cdot (x_{.})^{(n_{.})}] \cdot (b_{.})] \cdot (d_{.})] / (x_{.}), x_{\text{Symbol}}] \rightarrow \text{Simp}[1/n \text{Subst}[F[d \cdot (a + b \cdot x)], x, \text{Log}[c \cdot x^n]], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \&\& \text{MemberQ}[\{\text{Erf}, \text{Erfc}, \text{Erfi}\}, F]$
6955. $\text{Int}[\text{Erf}[(a_{.}) + \text{Log}[(c_{.}) \cdot (x_{.})^{(n_{.})}] \cdot (b_{.})] \cdot (d_{.})] \cdot ((e_{.}) \cdot (x_{.}))^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e \cdot x)^{(m+1)} \cdot (\text{Erf}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (e \cdot (m+1)), x] - \text{Simp}[2 \cdot b \cdot d \cdot (n / (\text{Sqrt}[\text{Pi}] \cdot (m+1))) \text{Int}[(e \cdot x)^m / \text{E}^{(d \cdot (a + b \cdot \text{Log}[c \cdot x^n]))^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[m, -1]$
6956. $\text{Int}[\text{Erfc}[(a_{.}) + \text{Log}[(c_{.}) \cdot (x_{.})^{(n_{.})}] \cdot (b_{.})] \cdot (d_{.})] \cdot ((e_{.}) \cdot (x_{.}))^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e \cdot x)^{(m+1)} \cdot (\text{Erfc}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (e \cdot (m+1)), x] + \text{Simp}[2 \cdot b \cdot d \cdot (n / (\text{Sqrt}[\text{Pi}] \cdot (m+1))) \text{Int}[(e \cdot x)^m / \text{E}^{(d \cdot (a + b \cdot \text{Log}[c \cdot x^n]))^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[m, -1]$
6957. $\text{Int}[\text{Erfi}[(a_{.}) + \text{Log}[(c_{.}) \cdot (x_{.})^{(n_{.})}] \cdot (b_{.})] \cdot (d_{.})] \cdot ((e_{.}) \cdot (x_{.}))^{(m_{.})}, x_{\text{Symbol}}] \rightarrow \text{Simp}[(e \cdot x)^{(m+1)} \cdot (\text{Erfi}[d \cdot (a + b \cdot \text{Log}[c \cdot x^n])]) / (e \cdot (m+1)), x] - \text{Simp}[2 \cdot b \cdot d \cdot (n / (\text{Sqrt}[\text{Pi}] \cdot (m+1))) \text{Int}[(e \cdot x)^m \cdot \text{E}^{(d \cdot (a + b \cdot \text{Log}[c \cdot x^n]))^2}, x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[m, -1]$

6958. $\text{Int}[\text{Erf}[(b_)(x_)]*\text{Sin}[(c_)+(d_)(x_)^2], x_Symbol] \rightarrow \text{Simp}[I/2 \text{Int}[E^{(-I)*c - I*d*x^2}*\text{Erf}[b*x], x], x] - \text{Simp}[I/2 \text{Int}[E^{(I*c + I*d*x^2)}*\text{Erf}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, -b^4]$
6959. $\text{Int}[\text{Erfc}[(b_)(x_)]*\text{Sin}[(c_)+(d_)(x_)^2], x_Symbol] \rightarrow \text{Simp}[I/2 \text{Int}[E^{(-I)*c - I*d*x^2}*\text{Erfc}[b*x], x], x] - \text{Simp}[I/2 \text{Int}[E^{(I*c + I*d*x^2)}*\text{Erfc}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, -b^4]$
6960. $\text{Int}[\text{Erfi}[(b_)(x_)]*\text{Sin}[(c_)+(d_)(x_)^2], x_Symbol] \rightarrow \text{Simp}[I/2 \text{Int}[E^{(-I)*c - I*d*x^2}*\text{Erfi}[b*x], x], x] - \text{Simp}[I/2 \text{Int}[E^{(I*c + I*d*x^2)}*\text{Erfi}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, -b^4]$
6961. $\text{Int}[\text{Cos}[(c_)+(d_)(x_)^2]*\text{Erf}[(b_)(x_)], x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{(-I)*c - I*d*x^2}*\text{Erf}[b*x], x], x] + \text{Simp}[1/2 \text{Int}[E^{(I*c + I*d*x^2)}*\text{Erf}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, -b^4]$
6962. $\text{Int}[\text{Cos}[(c_)+(d_)(x_)^2]*\text{Erfc}[(b_)(x_)], x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{(-I)*c - I*d*x^2}*\text{Erfc}[b*x], x], x] + \text{Simp}[1/2 \text{Int}[E^{(I*c + I*d*x^2)}*\text{Erfc}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, -b^4]$
6963. $\text{Int}[\text{Cos}[(c_)+(d_)(x_)^2]*\text{Erfi}[(b_)(x_)], x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{(-I)*c - I*d*x^2}*\text{Erfi}[b*x], x], x] + \text{Simp}[1/2 \text{Int}[E^{(I*c + I*d*x^2)}*\text{Erfi}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, -b^4]$
6964. $\text{Int}[\text{Erf}[(b_)(x_)]*\text{Sinh}[(c_)+(d_)(x_)^2], x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{(c + d*x^2)}*\text{Erf}[b*x], x], x] - \text{Simp}[1/2 \text{Int}[E^{(-c - d*x^2)}*\text{Erf}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, b^4]$
6965. $\text{Int}[\text{Erfc}[(b_)(x_)]*\text{Sinh}[(c_)+(d_)(x_)^2], x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{(c + d*x^2)}*\text{Erfc}[b*x], x], x] - \text{Simp}[1/2 \text{Int}[E^{(-c - d*x^2)}*\text{Erfc}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, b^4]$
6966. $\text{Int}[\text{Erfi}[(b_)(x_)]*\text{Sinh}[(c_)+(d_)(x_)^2], x_Symbol] \rightarrow \text{Simp}[1/2 \text{Int}[E^{(c + d*x^2)}*\text{Erfi}[b*x], x], x] - \text{Simp}[1/2 \text{Int}[E^{(-c - d*x^2)}*\text{Erfi}[b*x], x], x] /; \text{FreeQ}[\{b, c, d\}, x] \&\& \text{EqQ}[d^2, b^4]$

6967. $\text{Int}[\text{Cosh}[(c_.) + (d_.)*(x_.)^2]*\text{Erf}[(b_.)*(x_.)], x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[E^{(c + d*x^2)*\text{Erf}[b*x], x], x] + \text{Simp}[1/2 \text{ Int}[E^{(-c - d*x^2)*\text{Erf}[b*x], x], x] /; \text{FreeQ}\{b, c, d\}, x] \&\& \text{EqQ}[d^2, b^4]$
6968. $\text{Int}[\text{Cosh}[(c_.) + (d_.)*(x_.)^2]*\text{Erfc}[(b_.)*(x_.)], x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[E^{(c + d*x^2)*\text{Erfc}[b*x], x], x] + \text{Simp}[1/2 \text{ Int}[E^{(-c - d*x^2)*\text{Erfc}[b*x], x], x] /; \text{FreeQ}\{b, c, d\}, x] \&\& \text{EqQ}[d^2, b^4]$
6969. $\text{Int}[\text{Cosh}[(c_.) + (d_.)*(x_.)^2]*\text{Erfi}[(b_.)*(x_.)], x_Symbol] \rightarrow \text{Simp}[1/2 \text{ Int}[E^{(c + d*x^2)*\text{Erfi}[b*x], x], x] + \text{Simp}[1/2 \text{ Int}[E^{(-c - d*x^2)*\text{Erfi}[b*x], x], x] /; \text{FreeQ}\{b, c, d\}, x] \&\& \text{EqQ}[d^2, b^4]$
6970. $\text{Int}[(F_)[((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)})*(b_.)*(f_.)]), x_Symbol] \rightarrow \text{Simp}[1/e \text{ Subst}[\text{Int}[F[f*(a + b*\text{Log}[c*x^n]), x], x, d + e*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{MemberQ}\{\text{Erf}, \text{Erfc}, \text{Erfi}, \text{FresnelS}, \text{FresnelC}, \text{ExpIntegralEi}, \text{SinIntegral}, \text{CosIntegral}, \text{SinhIntegral}, \text{CoshIntegral}\}, F]$
6971. $\text{Int}[(g_.) + (h_.)*(x_.)^{(m_.)}*(F_)[((a_.) + \text{Log}[(c_.)*((d_.) + (e_.)*(x_.)^{(n_.)})*(b_.)*(f_.)]), x_Symbol] \rightarrow \text{Simp}[1/e \text{ Subst}[\text{Int}[(g*(x/d))^{m*F[f*(a + b*\text{Log}[c*x^n]), x], x, d + e*x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, m, n\}, x] \&\& \text{EqQ}[e*f - d*g, 0] \&\& \text{MemberQ}\{\text{Erf}, \text{Erfc}, \text{Erfi}, \text{FresnelS}, \text{FresnelC}, \text{ExpIntegralEi}, \text{SinIntegral}, \text{CosIntegral}, \text{SinhIntegral}, \text{CoshIntegral}\}, F]$
6972. $\text{Int}[\text{FresnelS}[(a_.) + (b_.)*(x_.)], x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{FresnelS}[a + b*x]/b), x] + \text{Simp}[\text{Cos}[(\text{Pi}/2)*(a + b*x)^2]/(b*\text{Pi}), x] /; \text{FreeQ}\{a, b\}, x]$
6973. $\text{Int}[\text{FresnelC}[(a_.) + (b_.)*(x_.)], x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{FresnelC}[a + b*x]/b), x] - \text{Simp}[\text{Sin}[(\text{Pi}/2)*(a + b*x)^2]/(b*\text{Pi}), x] /; \text{FreeQ}\{a, b\}, x]$
6974. $\text{Int}[\text{FresnelS}[(a_.) + (b_.)*(x_.)]^2, x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{FresnelS}[a + b*x]^2/b), x] - \text{Simp}[2 \text{ Int}[(a + b*x)*\text{Sin}[(\text{Pi}/2)*(a + b*x)^2]*\text{FresnelS}[a + b*x], x], x] /; \text{FreeQ}\{a, b\}, x]$

6975. $\text{Int}[\text{FresnelC}[(a_.) + (b_.)(x_)]^2, x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{FresnelC}[a + b*x]^2/b), x] - \text{Simp}[2 \text{ Int}[(a + b*x)*\text{Cos}[(\text{Pi}/2)*(a + b*x)^2] * \text{FresnelC}[a + b*x], x], x] /; \text{FreeQ}\{a, b, x\}$
6976. $\text{Int}[\text{FresnelS}[(a_.) + (b_.)(x_)]^{(n_)}, x_Symbol] \rightarrow \text{Unintegrable}[\text{FresnelS}[a + b*x]^n, x] /; \text{FreeQ}\{a, b, n, x\} \&\& \text{NeQ}[n, 1] \&\& \text{NeQ}[n, 2]$
6977. $\text{Int}[\text{FresnelC}[(a_.) + (b_.)(x_)]^{(n_)}, x_Symbol] \rightarrow \text{Unintegrable}[\text{FresnelC}[a + b*x]^n, x] /; \text{FreeQ}\{a, b, n, x\} \&\& \text{NeQ}[n, 1] \&\& \text{NeQ}[n, 2]$
6978. $\text{Int}[\text{FresnelS}[(b_.)(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[(1 + I)/4 \text{ Int}[\text{Erf}[(\text{Sqrt}[\text{Pi}]/2)*(1 + I)*b*x]/x, x], x] + \text{Simp}[(1 - I)/4 \text{ Int}[\text{Erf}[(\text{Sqrt}[\text{Pi}]/2)*(1 - I)*b*x]/x, x], x] /; \text{FreeQ}[b, x]$
6979. $\text{Int}[\text{FresnelC}[(b_.)(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[(1 - I)/4 \text{ Int}[\text{Erf}[(\text{Sqrt}[\text{Pi}]/2)*(1 + I)*b*x]/x, x], x] + \text{Simp}[(1 + I)/4 \text{ Int}[\text{Erf}[(\text{Sqrt}[\text{Pi}]/2)*(1 - I)*b*x]/x, x], x] /; \text{FreeQ}[b, x]$
6980. $\text{Int}[\text{FresnelS}[(b_.)(x_)]*((d_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(d*x)^{(m + 1)}*(\text{FresnelS}[b*x]/(d*(m + 1))), x] - \text{Simp}[b/(d*(m + 1)) \text{ Int}[(d*x)^{(m + 1)}*\text{Sin}[(\text{Pi}/2)*b^2*x^2], x], x] /; \text{FreeQ}\{b, d, m, x\} \&\& \text{NeQ}[m, -1]$
6981. $\text{Int}[\text{FresnelC}[(b_.)(x_)]*((d_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(d*x)^{(m + 1)}*(\text{FresnelC}[b*x]/(d*(m + 1))), x] - \text{Simp}[b/(d*(m + 1)) \text{ Int}[(d*x)^{(m + 1)}*\text{Cos}[(\text{Pi}/2)*b^2*x^2], x], x] /; \text{FreeQ}\{b, d, m, x\} \&\& \text{NeQ}[m, -1]$
6982. $\text{Int}[\text{FresnelS}[(a_.) + (b_.)(x_)]*((c_.) + (d_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{FresnelS}[a + b*x]/(d*(m + 1))), x] - \text{Simp}[b/(d*(m + 1)) \text{ Int}[(c + d*x)^{(m + 1)}*\text{Sin}[(\text{Pi}/2)*(a + b*x)^2], x], x] /; \text{FreeQ}\{a, b, c, d, x\} \&\& \text{IGtQ}[m, 0]$
6983. $\text{Int}[\text{FresnelC}[(a_.) + (b_.)(x_)]*((c_.) + (d_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{FresnelC}[a + b*x]/(d*(m + 1))), x] - \text{Simp}[\text{Int}[(c + d*x)^{(m + 1)}*\text{Cos}[(\text{Pi}/2)*(a + b*x)^2], x], x]$

- $$\frac{b}{d(m+1)} \int [(c + dx)^{(m+1)} \cos[(\pi/2)(a + bx)^2], x], x] /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \text{IGtQ}[m, 0]$$
6984. $\text{Int}[\text{FresnelS}[(b_)(x_)]^2(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}(\text{FresnelS}[b*x]^2/(m+1)), x] - \text{Simp}[2*(b/(m+1)) \int [x^{(m+1)} \sin[(\pi/2)*b^2*x^2]*\text{FresnelS}[b*x], x], x] /; \text{FreeQ}[b, x] \ \&\& \text{IntegerQ}[m] \ \&\& \text{NeQ}[m, -1]$
6985. $\text{Int}[\text{FresnelC}[(b_)(x_)]^2(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}(\text{FresnelC}[b*x]^2/(m+1)), x] - \text{Simp}[2*(b/(m+1)) \int [x^{(m+1)} \cos[(\pi/2)*b^2*x^2]*\text{FresnelC}[b*x], x], x] /; \text{FreeQ}[b, x] \ \&\& \text{IntegerQ}[m] \ \&\& \text{NeQ}[m, -1]$
6986. $\text{Int}[\text{FresnelS}[(a_) + (b_)(x_)]^2((c_) + (d_)(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/b^{(m+1)} \text{Subst}[\text{Int}[\text{ExpandIntegrand}[\text{FresnelS}[x]^2, (b*c - a*d + d*x)^m, x], x], x, a + b*x], x] /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \text{IGtQ}[m, 0]$
6987. $\text{Int}[\text{FresnelC}[(a_) + (b_)(x_)]^2((c_) + (d_)(x_))^{(m_)}, x_Symbol] \rightarrow \text{Simp}[1/b^{(m+1)} \text{Subst}[\text{Int}[\text{ExpandIntegrand}[\text{FresnelC}[x]^2, (b*c - a*d + d*x)^m, x], x], x, a + b*x], x] /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \text{IGtQ}[m, 0]$
6988. $\text{Int}[\text{FresnelS}[(a_) + (b_)(x_)]^{(n_)}((c_) + (d_)(x_))^{(m_)}, x_Symbol] \rightarrow \text{Unintegrable}[(c + dx)^m * \text{FresnelS}[a + b*x]^n, x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x]$
6989. $\text{Int}[\text{FresnelC}[(a_) + (b_)(x_)]^{(n_)}((c_) + (d_)(x_))^{(m_)}, x_Symbol] \rightarrow \text{Unintegrable}[(c + dx)^m * \text{FresnelC}[a + b*x]^n, x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x]$
6990. $\text{Int}[E^{((c_) + (d_)(x_)^2)} * \text{FresnelS}[(b_)(x_)], x_Symbol] \rightarrow \text{Simp}[(1 + I)/4 \int [E^{(c + d*x^2)} * \text{Erf}[(\text{Sqrt}[\pi]/2)*(1 + I)*b*x], x], x] + \text{Simp}[(1 - I)/4 \int [E^{(c + d*x^2)} * \text{Erf}[(\text{Sqrt}[\pi]/2)*(1 - I)*b*x], x], x] /; \text{FreeQ}\{b, c, d\}, x \ \&\& \text{EqQ}[d^2, (-\pi^2/4)*b^4]$

6991. $\text{Int}[E^{(c_.) + (d_.)(x_)^2} \text{FresnelC}[(b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(1 - I)/4 \text{Int}[E^{(c + d*x^2)} \text{Erf}[(\text{Sqrt}[\text{Pi}]/2)*(1 + I)*b*x], x], x] + \text{Simp}[(1 + I)/4 \text{Int}[E^{(c + d*x^2)} \text{Erf}[(\text{Sqrt}[\text{Pi}]/2)*(1 - I)*b*x], x], x] /; \text{FreeQ}\{b, c, d\}, x] \ \&\& \ \text{EqQ}[d^2, (-\text{Pi}^2/4)*b^4]$
6992. $\text{Int}[E^{(c_.) + (d_.)(x_)^2} \text{FresnelS}[(a_.) + (b_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrable}[E^{(c + d*x^2)} \text{FresnelS}[a + b*x]^n, x] /; \text{FreeQ}\{a, b, c, d, n\}, x]$
6993. $\text{Int}[E^{(c_.) + (d_.)(x_)^2} \text{FresnelC}[(a_.) + (b_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Unintegrable}[E^{(c + d*x^2)} \text{FresnelC}[a + b*x]^n, x] /; \text{FreeQ}\{a, b, c, d, n\}, x]$
6994. $\text{Int}[\text{FresnelS}[(b_.)(x_)]^{(n_.)} \text{Sin}[(d_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[\text{Pi}*(b/(2*d)) \text{Subst}[\text{Int}[x^n, x], x, \text{FresnelS}[b*x]], x] /; \text{FreeQ}\{b, d, n\}, x] \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4]$
6995. $\text{Int}[\text{Cos}[(d_.)(x_)^2] \text{FresnelC}[(b_.)(x_)]^{(n_.)}, x_Symbol] \rightarrow \text{Simp}[\text{Pi}*(b/(2*d)) \text{Subst}[\text{Int}[x^n, x], x, \text{FresnelC}[b*x]], x] /; \text{FreeQ}\{b, d, n\}, x] \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4]$
6996. $\text{Int}[\text{FresnelS}[(b_.)(x_)] \text{Sin}[(c_.) + (d_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[\text{Sin}[c] \text{Int}[\text{Cos}[d*x^2] \text{FresnelS}[b*x], x], x] + \text{Simp}[\text{Cos}[c] \text{Int}[\text{Sin}[d*x^2] \text{FresnelS}[b*x], x], x] /; \text{FreeQ}\{b, c, d\}, x] \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4]$
6997. $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_)^2] \text{FresnelC}[(b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[\text{Cos}[c] \text{Int}[\text{Cos}[d*x^2] \text{FresnelC}[b*x], x], x] - \text{Simp}[\text{Sin}[c] \text{Int}[\text{Sin}[d*x^2] \text{FresnelC}[b*x], x], x] /; \text{FreeQ}\{b, c, d\}, x] \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4]$
6998. $\text{Int}[\text{FresnelS}[(a_.) + (b_.)(x_)]^{(n_.)} \text{Sin}[(c_.) + (d_.)(x_)^2], x_Symbol] \rightarrow \text{Unintegrable}[\text{FresnelS}[a + b*x]^n \text{Sin}[c + d*x^2], x] /; \text{FreeQ}\{a, b, c, d, n\}, x]$

6999. `Int[Cos[(c_.) + (d_.)*(x_)^2]*FresnelC[(a_.) + (b_.)*(x_)^(n_.), x_Symbol] :> Unintegrable[Cos[c + d*x^2]*FresnelC[a + b*x]^n, x] /; FreeQ[{a, b, c, d, n}, x]`
7000. `Int[Cos[(d_.)*(x_)^2]*FresnelS[(b_.)*(x_)], x_Symbol] :> Simp[FresnelC[b*x]*(FresnelS[b*x]/(2*b)), x] + (-Simp[(1/8)*I*b*x^2*HypergeometricPFQ[{1, 1}, {3/2, 2}, (-2^(-1))*I*b^2*Pi*x^2], x] + Simp[(1/8)*I*b*x^2*HypergeometricPFQ[{1, 1}, {3/2, 2}, (1/2)*I*b^2*Pi*x^2], x]) /; FreeQ[{b, d}, x] && EqQ[d^2, (Pi^2/4)*b^4]`
7001. `Int[FresnelC[(b_.)*(x_)]*Sin[(d_.)*(x_)^2], x_Symbol] :> Simp[b*Pi*FresnelC[b*x]*(FresnelS[b*x]/(4*d)), x] + (Simp[(1/8)*I*b*x^2*HypergeometricPFQ[{1, 1}, {3/2, 2}, (-I)*d*x^2], x] - Simp[(1/8)*I*b*x^2*HypergeometricPFQ[{1, 1}, {3/2, 2}, I*d*x^2], x]) /; FreeQ[{b, d}, x] && EqQ[d^2, (Pi^2/4)*b^4]`
7002. `Int[Cos[(c_) + (d_.)*(x_)^2]*FresnelS[(b_.)*(x_)], x_Symbol] :> Simp[Cos[c] Int[Cos[d*x^2]*FresnelS[b*x], x], x] - Simp[Sin[c] Int[Sin[d*x^2]*FresnelS[b*x], x], x] /; FreeQ[{b, c, d}, x] && EqQ[d^2, (Pi^2/4)*b^4]`
7003. `Int[FresnelC[(b_.)*(x_)]*Sin[(c_) + (d_.)*(x_)^2], x_Symbol] :> Simp[Sin[c] Int[Cos[d*x^2]*FresnelC[b*x], x], x] + Simp[Cos[c] Int[Sin[d*x^2]*FresnelC[b*x], x], x] /; FreeQ[{b, c, d}, x] && EqQ[d^2, (Pi^2/4)*b^4]`
7004. `Int[Cos[(c_.) + (d_.)*(x_)^2]*FresnelS[(a_.) + (b_.)*(x_)^(n_.), x_Symbol] :> Unintegrable[Cos[c + d*x^2]*FresnelS[a + b*x]^n, x] /; FreeQ[{a, b, c, d, n}, x]`
7005. `Int[FresnelC[(a_.) + (b_.)*(x_)^(n_.)*Sin[(c_.) + (d_.)*(x_)^2], x_Symbol] :> Unintegrable[FresnelC[a + b*x]^n*Sin[c + d*x^2], x] /; FreeQ[{a, b, c, d, n}, x]`
7006. `Int[FresnelS[(b_.)*(x_)*(x_)^2]*Sin[(d_.)*(x_)^2], x_Symbol] :> Simp[(-Cos[d*x^2])*(FresnelS[b*x]/(2*d)), x] + Simp[1/(2*b*Pi) Int[Sin[2*d*x`

- $\wedge 2], x], x] /; \text{FreeQ}\{b, d\}, x\} \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4]$
7007. $\text{Int}[\text{Cos}[(d_)*(x_)^2]*\text{FresnelC}[(b_)*(x_)]*(x_), x_Symbol] \rightarrow \text{Simp}[\text{Sin}[d*x^2]*(\text{FresnelC}[b*x]/(2*d)), x] - \text{Simp}[b/(4*d) \ \text{Int}[\text{Sin}[2*d*x^2], x], x] /; \text{FreeQ}\{b, d\}, x\} \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4]$
7008. $\text{Int}[\text{FresnelS}[(b_)*(x_)]*(x_)^{(m_)}*\text{Sin}[(d_)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[(-x^{(m-1)})*\text{Cos}[d*x^2]*(\text{FresnelS}[b*x]/(2*d)), x] + (\text{Simp}[(m-1)/(2*d) \ \text{Int}[x^{(m-2)}*\text{Cos}[d*x^2]*\text{FresnelS}[b*x], x], x] + \text{Simp}[1/(2*b*Pi) \ \text{Int}[x^{(m-1)}*\text{Sin}[2*d*x^2], x], x]) /; \text{FreeQ}\{b, d\}, x\} \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4] \ \&\& \ \text{IGtQ}[m, 1]$
7009. $\text{Int}[\text{Cos}[(d_)*(x_)^2]*\text{FresnelC}[(b_)*(x_)]*(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m-1)}*\text{Sin}[d*x^2]*(\text{FresnelC}[b*x]/(2*d)), x] + (-\text{Simp}[(m-1)/(2*d) \ \text{Int}[x^{(m-2)}*\text{Sin}[d*x^2]*\text{FresnelC}[b*x], x], x] - \text{Simp}[b/(4*d) \ \text{Int}[x^{(m-1)}*\text{Sin}[2*d*x^2], x], x]) /; \text{FreeQ}\{b, d\}, x\} \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4] \ \&\& \ \text{IGtQ}[m, 1]$
7010. $\text{Int}[\text{FresnelS}[(b_)*(x_)]*(x_)^{(m_)}*\text{Sin}[(d_)*(x_)^2], x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*\text{Sin}[d*x^2]*(\text{FresnelS}[b*x]/(m+1)), x] + (-\text{Simp}[d*(x^{(m+2)})/(Pi*b*(m+1)*(m+2)), x] - \text{Simp}[2*(d/(m+1)) \ \text{Int}[x^{(m+2)}*\text{Cos}[d*x^2]*\text{FresnelS}[b*x], x], x] + \text{Simp}[d/(Pi*b*(m+1)) \ \text{Int}[x^{(m+1)}*\text{Cos}[2*d*x^2], x], x]) /; \text{FreeQ}\{b, d\}, x\} \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4] \ \&\& \ \text{ILtQ}[m, -2]$
7011. $\text{Int}[\text{Cos}[(d_)*(x_)^2]*\text{FresnelC}[(b_)*(x_)]*(x_)^{(m_)}, x_Symbol] \rightarrow \text{Simp}[x^{(m+1)}*\text{Cos}[d*x^2]*(\text{FresnelC}[b*x]/(m+1)), x] + (-\text{Simp}[b*(x^{(m+2)})/(2*(m+1)*(m+2)), x] + \text{Simp}[2*(d/(m+1)) \ \text{Int}[x^{(m+2)}*\text{Sin}[d*x^2]*\text{FresnelC}[b*x], x], x] - \text{Simp}[b/(2*(m+1)) \ \text{Int}[x^{(m+1)}*\text{Cos}[2*d*x^2], x], x]) /; \text{FreeQ}\{b, d\}, x\} \ \&\& \ \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4] \ \&\& \ \text{ILtQ}[m, -2]$
7012. $\text{Int}[\text{FresnelS}[(a_)+(b_)*(x_)]^{(n_)}*((e_)*(x_))^{(m_)}*\text{Sin}[(c_)+(d_)*(x_)^2], x_Symbol] \rightarrow \text{Unintegrable}[(e*x)^m*\text{FresnelS}[a+b*x]^{n*}\text{Sin}[c+d*x^2], x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x\}$

7013. $\text{Int}[\text{Cos}[(c_.) + (d_.)(x_)^2] \text{FresnelC}[(a_.) + (b_.)(x_)]^{(n_.)} * ((e_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Unintegrable}[(e*x)^m \text{Cos}[c + d*x^2] \text{FresnelC}[a + b*x]^n, x] /; \text{FreeQ}\{a, b, c, d, e, m, n\}, x]$
7014. $\text{Int}[\text{Cos}[(d_.)(x_)^2] \text{FresnelS}[(b_.)(x_)](x_), x_Symbol] \rightarrow \text{Simp}[\text{Sin}[d*x^2] * (\text{FresnelS}[b*x]/(2*d)), x] - \text{Simp}[1/(\text{Pi}*b) \text{Int}[\text{Sin}[d*x^2]^2, x], x] /; \text{FreeQ}\{b, d\}, x] \&\& \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4]$
7015. $\text{Int}[\text{FresnelC}[(b_.)(x_)](x_)*\text{Sin}[(d_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[(-\text{Cos}[d*x^2]) * (\text{FresnelC}[b*x]/(2*d)), x] + \text{Simp}[b/(2*d) \text{Int}[\text{Cos}[d*x^2]^2, x], x] /; \text{FreeQ}\{b, d\}, x] \&\& \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4]$
7016. $\text{Int}[\text{Cos}[(d_.)(x_)^2] \text{FresnelS}[(b_.)(x_)](x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m-1)} * \text{Sin}[d*x^2] * (\text{FresnelS}[b*x]/(2*d)), x] + (-\text{Simp}[1/(\text{Pi}*b) \text{Int}[x^{(m-1)} * \text{Sin}[d*x^2]^2, x], x] - \text{Simp}[(m-1)/(2*d) \text{Int}[x^{(m-2)} * \text{Sin}[d*x^2] * \text{FresnelS}[b*x], x], x]) /; \text{FreeQ}\{b, d\}, x] \&\& \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4] \&\& \text{IGtQ}[m, 1]$
7017. $\text{Int}[\text{FresnelC}[(b_.)(x_)](x_)^{(m_.)} * \text{Sin}[(d_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[(-x^{(m-1)}) * \text{Cos}[d*x^2] * (\text{FresnelC}[b*x]/(2*d)), x] + (\text{Simp}[(m-1)/(2*d) \text{Int}[x^{(m-2)} * \text{Cos}[d*x^2] * \text{FresnelC}[b*x], x], x] + \text{Simp}[b/(2*d) \text{Int}[x^{(m-1)} * \text{Cos}[d*x^2]^2, x], x]) /; \text{FreeQ}\{b, d\}, x] \&\& \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4] \&\& \text{IGtQ}[m, 1]$
7018. $\text{Int}[\text{Cos}[(d_.)(x_)^2] \text{FresnelS}[(b_.)(x_)](x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m+1)} * \text{Cos}[d*x^2] * (\text{FresnelS}[b*x]/(m+1)), x] + (\text{Simp}[2*(d/(m+1)) \text{Int}[x^{(m+2)} * \text{Sin}[d*x^2] * \text{FresnelS}[b*x], x], x] - \text{Simp}[d/(\text{Pi}*b*(m+1)) \text{Int}[x^{(m+1)} * \text{Sin}[2*d*x^2], x], x]) /; \text{FreeQ}\{b, d\}, x] \&\& \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4] \&\& \text{ILtQ}[m, -1]$
7019. $\text{Int}[\text{FresnelC}[(b_.)(x_)](x_)^{(m_.)} * \text{Sin}[(d_.)(x_)^2], x_Symbol] \rightarrow \text{Simp}[x^{(m+1)} * \text{Sin}[d*x^2] * (\text{FresnelC}[b*x]/(m+1)), x] + (-\text{Simp}[2*(d/(m+1)) \text{Int}[x^{(m+2)} * \text{Cos}[d*x^2] * \text{FresnelC}[b*x], x], x] - \text{Simp}[b/(2*(m+1)) \text{Int}[x^{(m+1)} * \text{Sin}[2*d*x^2], x], x]) /; \text{FreeQ}\{b, d\}, x] \&\& \text{EqQ}[d^2, (\text{Pi}^2/4)*b^4] \&\& \text{ILtQ}[m, -1]$

7020. `Int[Cos[(c_.) + (d_.)*(x_)^2]*FresnelS[(a_.) + (b_.)*(x_)^(n_.)*((e_.)*(x_))^(m_.), x_Symbol] := Unintegrable[(e*x)^m*Cos[c + d*x^2]*FresnelS[a + b*x]^n, x] /; FreeQ[{a, b, c, d, e, m, n}, x]`
7021. `Int[FresnelC[(a_.) + (b_.)*(x_)^(n_.)*((e_.)*(x_))^(m_.)*Sin[(c_.) + (d_.)*(x_)^2], x_Symbol] := Unintegrable[(e*x)^m*FresnelC[a + b*x]^n*Sin[c + d*x^2], x] /; FreeQ[{a, b, c, d, e, m, n}, x]`
7022. `Int[FresnelS[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] :> Simp[x*FresnelS[d*(a + b*Log[c*x^n])], x] - Simp[b*d*n Int[Sin[(Pi/2)*(d*(a + b*Log[c*x^n]))^2], x], x] /; FreeQ[{a, b, c, d, n}, x]`
7023. `Int[FresnelC[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] :> Simp[x*FresnelC[d*(a + b*Log[c*x^n])], x] - Simp[b*d*n Int[Cos[(Pi/2)*(d*(a + b*Log[c*x^n]))^2], x], x] /; FreeQ[{a, b, c, d, n}, x]`
7024. `Int[(F_)[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]/(x_), x_Symbol] := Simp[1/n Subst[F[d*(a + b*x)], x, Log[c*x^n]], x] /; FreeQ[{a, b, c, d, n}, x] && MemberQ[{FresnelS, FresnelC}, F]`
7025. `Int[FresnelS[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.))*((e_.)*(x_))^(m_.), x_Symbol] := Simp[(e*x)^(m + 1)*(FresnelS[d*(a + b*Log[c*x^n])]/(e*(m + 1))), x] - Simp[b*d*(n/(m + 1)) Int[(e*x)^m*Sin[(Pi/2)*(d*(a + b*Log[c*x^n]))^2], x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[m, -1]`
7026. `Int[FresnelC[((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.))*((e_.)*(x_))^(m_.), x_Symbol] := Simp[(e*x)^(m + 1)*(FresnelC[d*(a + b*Log[c*x^n])]/(e*(m + 1))), x] - Simp[b*d*(n/(m + 1)) Int[(e*x)^m*Cos[(Pi/2)*(d*(a + b*Log[c*x^n]))^2], x], x] /; FreeQ[{a, b, c, d, e, m, n}, x] && NeQ[m, -1]`
7027. `Int[ExpIntegralE[n_, (a_.) + (b_.)*(x_)], x_Symbol] := Simp[-ExpIntegralE[n + 1, a + b*x]/b, x] /; FreeQ[{a, b, n}, x]`

7028. $\text{Int}[\text{ExpIntegralE}[n_, (b_.)(x_)]*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(-x^m)*(\text{ExpIntegralE}[n + 1, b*x]/b), x] + \text{Simp}[m/b \text{ Int}[x^{(m - 1)}*\text{ExpIntegralE}[n + 1, b*x], x], x] /; \text{FreeQ}[b, x] \&\& \text{EqQ}[m + n, 0] \&\& \text{IGtQ}[m, 0]$
7029. $\text{Int}[\text{ExpIntegralE}[1, (b_.)(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, (-b)*x], x] + (-\text{Simp}[\text{EulerGamma}*\text{Log}[x], x] - \text{Simp}[(1/2)*\text{Log}[b*x]^2, x]) /; \text{FreeQ}[b, x]$
7030. $\text{Int}[\text{ExpIntegralE}[n_, (b_.)(x_)]*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*(\text{ExpIntegralE}[n, b*x]/(m + 1)), x] + \text{Simp}[b/(m + 1) \text{ Int}[x^{(m + 1)}*\text{ExpIntegralE}[n - 1, b*x], x], x] /; \text{FreeQ}[b, x] \&\& \text{EqQ}[m + n, 0] \&\& \text{ILtQ}[m, -1]$
7031. $\text{Int}[\text{ExpIntegralE}[n_, (b_.)(x_)]*((d_.)(x_)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[(d*x)^m*\text{Gamma}[m + 1]*(\text{Log}[x]/(b*(b*x)^m)), x] - \text{Simp}[(d*x)^{(m + 1)}*(\text{HypergeometricPFQ}[\{m + 1, m + 1\}, \{m + 2, m + 2\}, (-b)*x]/(d*(m + 1)^2)), x] /; \text{FreeQ}[\{b, d, m, n\}, x] \&\& \text{EqQ}[m + n, 0] \&\& !\text{IntegerQ}[m]$
7032. $\text{Int}[\text{ExpIntegralE}[n_, (b_.)(x_)]*((d_.)(x_)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[(d*x)^{(m + 1)}*(\text{ExpIntegralE}[n, b*x]/(d*(m + n))), x] - \text{Simp}[(d*x)^{(m + 1)}*(\text{ExpIntegralE}[-m, b*x]/(d*(m + n))), x] /; \text{FreeQ}[\{b, d, m, n\}, x] \&\& \text{NeQ}[m + n, 0]$
7033. $\text{Int}[\text{ExpIntegralE}[n_, (a_) + (b_.)(x_)]*((c_.) + (d_.)(x_)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[(-c + d*x)^m*(\text{ExpIntegralE}[n + 1, a + b*x]/b), x] + \text{Simp}[d*(m/b) \text{ Int}[(c + d*x)^{(m - 1)}*\text{ExpIntegralE}[n + 1, a + b*x], x], x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& (\text{IGtQ}[m, 0] \|\ \text{ILtQ}[n, 0] \|\ (\text{GtQ}[m, 0] \&\& \text{LtQ}[n, -1]))$
7034. $\text{Int}[\text{ExpIntegralE}[n_, (a_) + (b_.)(x_)]*((c_.) + (d_.)(x_)^{(m_.)}), x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{ExpIntegralE}[n, a + b*x]/(d*(m + 1))), x] + \text{Simp}[b/(d*(m + 1)) \text{ Int}[(c + d*x)^{(m + 1)}*\text{ExpIntegralE}[n - 1, a + b*x], x], x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& (\text{IGtQ}[n, 0] \|\ (\text{LtQ}[m, -1] \&\& \text{GtQ}[n, 0])) \&\& \text{NeQ}[m, -1]$

7035. $\text{Int}[\text{ExpIntegralE}[n, (a) + (b) \cdot (x)] \cdot ((c) + (d) \cdot (x))^m, x_Symbol] \rightarrow \text{Unintegrable}[(c + d \cdot x)^m \cdot \text{ExpIntegralE}[n, a + b \cdot x], x] /;$ FreeQ[{a, b, c, d, m, n}, x]
7036. $\text{Int}[\text{ExpIntegralEi}[(a) + (b) \cdot (x)], x_Symbol] \rightarrow \text{Simp}[(a + b \cdot x) \cdot (\text{ExpIntegralEi}[a + b \cdot x] / b), x] - \text{Simp}[E^{(a + b \cdot x)} / b, x] /;$ FreeQ[{a, b}, x]
7037. $\text{Int}[\text{ExpIntegralEi}[(b) \cdot (x)] / (x), x_Symbol] \rightarrow \text{Simp}[\text{Log}[x] \cdot (\text{ExpIntegralEi}[b \cdot x] + \text{ExpIntegralE}[1, (-b) \cdot x]), x] - \text{Int}[\text{ExpIntegralE}[1, (-b) \cdot x] / x, x] /;$ FreeQ[b, x]
7038. $\text{Int}[\text{ExpIntegralEi}[(a) + (b) \cdot (x)] / ((c) + (d) \cdot (x)), x_Symbol] \rightarrow \text{Unintegrable}[\text{ExpIntegralEi}[a + b \cdot x] / (c + d \cdot x), x] /;$ FreeQ[{a, b, c, d}, x]
7039. $\text{Int}[\text{ExpIntegralEi}[(a) + (b) \cdot (x)] \cdot ((c) + (d) \cdot (x))^m, x_Symbol] \rightarrow \text{Simp}[(c + d \cdot x)^{m+1} \cdot (\text{ExpIntegralEi}[a + b \cdot x] / (d \cdot (m + 1))), x] - \text{Simp}[b / (d \cdot (m + 1)) \cdot \text{Int}[(c + d \cdot x)^{m+1} \cdot (E^{(a + b \cdot x)} / (a + b \cdot x)), x], x] /;$ FreeQ[{a, b, c, d, m}, x] && NeQ[m, -1]
7040. $\text{Int}[\text{ExpIntegralEi}[(a) + (b) \cdot (x)]^2, x_Symbol] \rightarrow \text{Simp}[(a + b \cdot x) \cdot (\text{ExpIntegralEi}[a + b \cdot x]^2 / b), x] - \text{Simp}[2 \cdot \text{Int}[E^{(a + b \cdot x)} \cdot \text{ExpIntegralEi}[a + b \cdot x], x], x] /;$ FreeQ[{a, b}, x]
7041. $\text{Int}[\text{ExpIntegralEi}[(b) \cdot (x)]^2 \cdot (x)^m, x_Symbol] \rightarrow \text{Simp}[x^{m+1} \cdot (\text{ExpIntegralEi}[b \cdot x]^2 / (m + 1)), x] - \text{Simp}[2 / (m + 1) \cdot \text{Int}[x^m \cdot E^{(b \cdot x)} \cdot \text{ExpIntegralEi}[b \cdot x], x], x] /;$ FreeQ[b, x] && IGtQ[m, 0]
7042. $\text{Int}[\text{ExpIntegralEi}[(a) + (b) \cdot (x)]^2 \cdot (x)^m, x_Symbol] \rightarrow \text{Simp}[x^{m+1} \cdot (\text{ExpIntegralEi}[a + b \cdot x]^2 / (m + 1)), x] + (\text{Simp}[a \cdot x^m \cdot (\text{ExpIntegralEi}[a + b \cdot x]^2 / (b \cdot (m + 1))), x] - \text{Simp}[2 / (m + 1) \cdot \text{Int}[x^m \cdot E^{(a + b \cdot x)} \cdot \text{ExpIntegralEi}[a + b \cdot x], x], x] - \text{Simp}[a \cdot (m / (b \cdot (m + 1))) \cdot \text{Int}[x^{m-1} \cdot \text{ExpIntegralEi}[a + b \cdot x]^2, x], x]) /;$ FreeQ[{a, b}, x] && IGtQ[m, 0]

7043. $\text{Int}[E^{((a_.) + (b_.)(x_))} \text{ExpIntegralEi}[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[E^{(a + b*x)} \text{ExpIntegralEi}[c + d*x]/b, x] - \text{Simp}[d/b \text{ Int}[E^{(a + c + (b + d)*x)}/(c + d*x), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x]$
7044. $\text{Int}[E^{((a_.) + (b_.)(x_))} \text{ExpIntegralEi}[(c_.) + (d_.)(x_)]*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^m E^{(a + b*x)} \text{ExpIntegralEi}[c + d*x]/b, x] + (-\text{Simp}[d/b \text{ Int}[x^m (E^{(a + c + (b + d)*x)}/(c + d*x)), x], x] - \text{Simp}[m/b \text{ Int}[x^{(m - 1)} E^{(a + b*x)} \text{ExpIntegralEi}[c + d*x], x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IGtQ}[m, 0]$
7045. $\text{Int}[E^{((a_.) + (b_.)(x_))} \text{ExpIntegralEi}[(c_.) + (d_.)(x_)]*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)} E^{(a + b*x)} \text{ExpIntegralEi}[c + d*x]/(m + 1), x] + (-\text{Simp}[b/(m + 1) \text{ Int}[x^{(m + 1)} E^{(a + b*x)} \text{ExpIntegralEi}[c + d*x], x], x] - \text{Simp}[d/(m + 1) \text{ Int}[x^{(m + 1)} (E^{(a + c + (b + d)*x)}/(c + d*x)), x], x]) /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{ILtQ}[m, -1]$
7046. $\text{Int}[\text{ExpIntegralEi}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}]*(b_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[x \text{ExpIntegralEi}[d*(a + b*\text{Log}[c*x^n])], x] - \text{Simp}[b*n E^{(a*d)} \text{Int}[(c*x^n)^{(b*d)}/(a + b*\text{Log}[c*x^n]), x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
7047. $\text{Int}[\text{ExpIntegralEi}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}]*(b_.)]*(d_.)]/(x_), x_Symbol] \rightarrow \text{Simp}[1/n \text{ Subst}[\text{ExpIntegralEi}[d*(a + b*x)], x, \text{Log}[c*x^n]], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
7048. $\text{Int}[\text{ExpIntegralEi}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}]*(b_.)]*(d_.)]*(e_.)(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e*x)^{(m + 1)} \text{ExpIntegralEi}[d*(a + b*\text{Log}[c*x^n])]/(e*(m + 1)), x] - \text{Simp}[b*n E^{(a*d)} ((c*x^n)^{(b*d)}/((m + 1)*(e*x)^{(b*d*n})) \text{Int}[(e*x)^{(m + b*d*n)}/(a + b*\text{Log}[c*x^n]), x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \&\& \text{NeQ}[m, -1]$
7049. $\text{Int}[\text{LogIntegral}[(a_.) + (b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(a + b*x) * (\text{LogIntegral}[a + b*x]/b), x] - \text{Simp}[\text{ExpIntegralEi}[2*\text{Log}[a + b*x]]/b, x] /; \text{FreeQ}[\{a, b\}, x]$

7050. $\text{Int}[\text{LogIntegral}[(b_.)*(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[(-b)*x, x] + \text{Simp}[\text{Log}[b*x]*\text{LogIntegral}[b*x], x] /; \text{FreeQ}[b, x]$
7051. $\text{Int}[\text{LogIntegral}[(a_.) + (b_.)*(x_)]/((c_.) + (d_.)*(x_)), x_Symbol] \rightarrow \text{Unintegrable}[\text{LogIntegral}[a + b*x]/(c + d*x), x] /; \text{FreeQ}[\{a, b, c, d\}, x]$
7052. $\text{Int}[\text{LogIntegral}[(a_.) + (b_.)*(x_)]*((c_.) + (d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{LogIntegral}[a + b*x]/(d*(m + 1))), x] - \text{Simp}[b/(d*(m + 1)) \text{Int}[(c + d*x)^{(m + 1)}/\text{Log}[a + b*x], x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[m, -1]$
7053. $\text{Int}[\text{SinIntegral}[(a_.) + (b_.)*(x_)], x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{SinIntegral}[a + b*x]/b), x] + \text{Simp}[\text{Cos}[a + b*x]/b, x] /; \text{FreeQ}[\{a, b\}, x]$
7054. $\text{Int}[\text{CosIntegral}[(a_.) + (b_.)*(x_)], x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{CosIntegral}[a + b*x]/b), x] - \text{Simp}[\text{Sin}[a + b*x]/b, x] /; \text{FreeQ}[\{a, b\}, x]$
7055. $\text{Int}[\text{SinIntegral}[(b_.)*(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[(1/2)*b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, (-I)*b*x], x] + \text{Simp}[(1/2)*b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, I*b*x], x] /; \text{FreeQ}[b, x]$
7056. $\text{Int}[\text{CosIntegral}[(b_.)*(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[(-2^{(-1)})*I*b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, (-I)*b*x], x] + (\text{Simp}[(1/2)*I*b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, I*b*x], x] + \text{Simp}[\text{EulerGamma}*Log[x], x] + \text{Simp}[(1/2)*Log[b*x]^2, x]) /; \text{FreeQ}[b, x]$
7057. $\text{Int}[((c_.) + (d_.)*(x_))^{(m_.)}*\text{SinIntegral}[(a_.) + (b_.)*(x_)], x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{SinIntegral}[a + b*x]/(d*(m + 1))), x] - \text{Simp}[b/(d*(m + 1)) \text{Int}[(c + d*x)^{(m + 1)}*(\text{Sin}[a + b*x]/(a + b*x)), x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[m, -1]$
7058. $\text{Int}[\text{CosIntegral}[(a_.) + (b_.)*(x_)]*((c_.) + (d_.)*(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)}*(\text{CosIntegral}[a + b*x]/(d*(m + 1))), x] - \text{Simp}[b/(d*(m + 1)) \text{Int}[(c + d*x)^{(m + 1)}*(\text{Cos}[a + b*x]/(a + b*x)), x], x] /; \text{FreeQ}[\{a, b, c, d, m\}, x] \&\& \text{NeQ}[m, -1]$

- $x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x] \ \&\& \ \text{NeQ}[m, -1]$
7059. $\text{Int}[\text{SinIntegral}[(a_.) + (b_.)(x_)]^2, x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{SinIntegral}[a + b*x]^2/b), x] - \text{Simp}[2 \ \text{Int}[\text{Sin}[a + b*x]*\text{SinIntegral}[a + b*x], x], x] /; \text{FreeQ}\{a, b\}, x]$
7060. $\text{Int}[\text{CosIntegral}[(a_.) + (b_.)(x_)]^2, x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{CosIntegral}[a + b*x]^2/b), x] - \text{Simp}[2 \ \text{Int}[\text{Cos}[a + b*x]*\text{CosIntegral}[a + b*x], x], x] /; \text{FreeQ}\{a, b\}, x]$
7061. $\text{Int}[(x_)^{(m_.)}*\text{SinIntegral}[(b_.)(x_)]^2, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*(\text{SinIntegral}[b*x]^2/(m + 1)), x] - \text{Simp}[2/(m + 1) \ \text{Int}[x^m*\text{Sin}[b*x]*\text{SinIntegral}[b*x], x], x] /; \text{FreeQ}[b, x] \ \&\& \ \text{IGtQ}[m, 0]$
7062. $\text{Int}[\text{CosIntegral}[(b_.)(x_)]^2*(x_)^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[x^{(m + 1)}*(\text{CosIntegral}[b*x]^2/(m + 1)), x] - \text{Simp}[2/(m + 1) \ \text{Int}[x^m*\text{Cos}[b*x]*\text{CosIntegral}[b*x], x], x] /; \text{FreeQ}[b, x] \ \&\& \ \text{IGtQ}[m, 0]$
7063. $\text{Int}[(c_.) + (d_.)(x_)]^{(m_.)}*\text{SinIntegral}[(a_.) + (b_.)(x_)]^2, x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(c + d*x)^m*(\text{SinIntegral}[a + b*x]^2/(b*(m + 1))), x] + (-\text{Simp}[2/(m + 1) \ \text{Int}[(c + d*x)^m*\text{Sin}[a + b*x]*\text{SinIntegral}[a + b*x], x], x] + \text{Simp}[(b*c - a*d)*(m/(b*(m + 1))) \ \text{Int}[(c + d*x)^{(m - 1)}*\text{SinIntegral}[a + b*x]^2, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[m, 0]$
7064. $\text{Int}[\text{CosIntegral}[(a_.) + (b_.)(x_)]^2*((c_.) + (d_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(c + d*x)^m*(\text{CosIntegral}[a + b*x]^2/(b*(m + 1))), x] + (-\text{Simp}[2/(m + 1) \ \text{Int}[(c + d*x)^m*\text{Cos}[a + b*x]*\text{CosIntegral}[a + b*x], x], x] + \text{Simp}[(b*c - a*d)*(m/(b*(m + 1))) \ \text{Int}[(c + d*x)^{(m - 1)}*\text{CosIntegral}[a + b*x]^2, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x] \ \&\& \ \text{IGtQ}[m, 0]$
7065. $\text{Int}[\text{Sin}[(a_.) + (b_.)(x_)]*\text{SinIntegral}[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(-\text{Cos}[a + b*x])*(\text{SinIntegral}[c + d*x]/b), x] + \text{Simp}[d/b \ \text{Int}[\text{Cos}[a + b*x]*(\text{Sin}[c + d*x]/(c + d*x)), x], x] /; \text{FreeQ}\{a, b, c, d\}, x]$

7066. $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)]*\text{CosIntegral}[(c_.) + (d_.)(x_)], x_Symbol]$
 $\rightarrow \text{Simp}[\text{Sin}[a + b*x]*(\text{CosIntegral}[c + d*x]/b), x] - \text{Simp}[d/b \text{ Int}[\text{Sin}[a + b*x]*(\text{Cos}[c + d*x]/(c + d*x)), x], x] /;$ $\text{FreeQ}\{a, b, c, d\}, x]$
7067. $\text{Int}[((e_.) + (f_.)(x_))^{(m_.)}*\text{Sin}[(a_.) + (b_.)(x_)]*\text{SinIntegral}[(c_.) + (d_.)(x_)], x_Symbol]$ $\rightarrow \text{Simp}[(-e + f*x)^m*\text{Cos}[a + b*x]*(\text{SinIntegral}[c + d*x]/b), x] + (\text{Simp}[d/b \text{ Int}[(e + f*x)^m*\text{Cos}[a + b*x]*(\text{Sin}[c + d*x]/(c + d*x)), x], x] + \text{Simp}[f*(m/b) \text{ Int}[(e + f*x)^{(m-1)}*\text{Cos}[a + b*x]*\text{SinIntegral}[c + d*x], x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x]$ && $\text{IGtQ}[m, 0]$
7068. $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)]*\text{CosIntegral}[(c_.) + (d_.)(x_)]*((e_.) + (f_.)(x_))^{(m_.)}, x_Symbol]$ $\rightarrow \text{Simp}[(e + f*x)^m*\text{Sin}[a + b*x]*(\text{CosIntegral}[c + d*x]/b), x] + (-\text{Simp}[d/b \text{ Int}[(e + f*x)^m*\text{Sin}[a + b*x]*(\text{Cos}[c + d*x]/(c + d*x)), x], x] - \text{Simp}[f*(m/b) \text{ Int}[(e + f*x)^{(m-1)}*\text{Sin}[a + b*x]*\text{CosIntegral}[c + d*x], x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x]$ && $\text{IGtQ}[m, 0]$
7069. $\text{Int}[((e_.) + (f_.)(x_))^{(m_.)}*\text{Sin}[(a_.) + (b_.)(x_)]*\text{SinIntegral}[(c_.) + (d_.)(x_)], x_Symbol]$ $\rightarrow \text{Simp}[(e + f*x)^{(m+1)}*\text{Sin}[a + b*x]*(\text{SinIntegral}[c + d*x]/(f*(m+1))), x] + (-\text{Simp}[b/(f*(m+1)) \text{ Int}[(e + f*x)^{(m+1)}*\text{Cos}[a + b*x]*\text{SinIntegral}[c + d*x], x], x] - \text{Simp}[d/(f*(m+1)) \text{ Int}[(e + f*x)^{(m+1)}*\text{Sin}[a + b*x]*(\text{Sin}[c + d*x]/(c + d*x)), x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x]$ && $\text{ILtQ}[m, -1]$
7070. $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)]*\text{CosIntegral}[(c_.) + (d_.)(x_)]*((e_.) + (f_.)(x_))^{(m_.)}, x_Symbol]$ $\rightarrow \text{Simp}[(e + f*x)^{(m+1)}*\text{Cos}[a + b*x]*(\text{CosIntegral}[c + d*x]/(f*(m+1))), x] + (\text{Simp}[b/(f*(m+1)) \text{ Int}[(e + f*x)^{(m+1)}*\text{Sin}[a + b*x]*\text{CosIntegral}[c + d*x], x], x] - \text{Simp}[d/(f*(m+1)) \text{ Int}[(e + f*x)^{(m+1)}*\text{Cos}[a + b*x]*(\text{Cos}[c + d*x]/(c + d*x)), x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x]$ && $\text{ILtQ}[m, -1]$
7071. $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)]*\text{SinIntegral}[(c_.) + (d_.)(x_)], x_Symbol]$
 $\rightarrow \text{Simp}[\text{Sin}[a + b*x]*(\text{SinIntegral}[c + d*x]/b), x] - \text{Simp}[d/b \text{ Int}[\text{Sin}[a + b*x]*(\text{Sin}[c + d*x]/(c + d*x)), x], x] /;$ $\text{FreeQ}\{a, b, c, d\}, x]$

7072. $\text{Int}[\text{CosIntegral}[(c_.) + (d_.)(x_)]*\text{Sin}[(a_.) + (b_.)(x_)], x_Symbol]$
 $\text{:> Simp}[(-\text{Cos}[a + b*x])*(\text{CosIntegral}[c + d*x]/b), x] + \text{Simp}[d/b \text{ Int}[\text{Cos}[a + b*x]*(\text{Cos}[c + d*x]/(c + d*x)), x], x] /;$ $\text{FreeQ}\{a, b, c, d\}, x]$
7073. $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)]*((e_.) + (f_.)(x_))^{(m_.)}*\text{SinIntegral}[(c_.) + (d_.)(x_)], x_Symbol]$ $\text{:> Simp}[(e + f*x)^m*\text{Sin}[a + b*x]*(\text{SinIntegral}[c + d*x]/b), x] + (-\text{Simp}[d/b \text{ Int}[(e + f*x)^m*\text{Sin}[a + b*x]*(\text{Sin}[c + d*x]/(c + d*x)), x], x] - \text{Simp}[f*(m/b) \text{ Int}[(e + f*x)^{(m-1)}*\text{Sin}[a + b*x]*\text{SinIntegral}[c + d*x], x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x]$ && $\text{IGtQ}[m, 0]$
7074. $\text{Int}[\text{CosIntegral}[(c_.) + (d_.)(x_)]*((e_.) + (f_.)(x_))^{(m_.)}*\text{Sin}[(a_.) + (b_.)(x_)], x_Symbol]$ $\text{:> Simp}[(-e + f*x)^m*\text{Cos}[a + b*x]*(\text{CosIntegral}[c + d*x]/b), x] + (\text{Simp}[d/b \text{ Int}[(e + f*x)^m*\text{Cos}[a + b*x]*(\text{Cos}[c + d*x]/(c + d*x)), x], x] + \text{Simp}[f*(m/b) \text{ Int}[(e + f*x)^{(m-1)}*\text{Cos}[a + b*x]*\text{CosIntegral}[c + d*x], x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x]$ && $\text{IGtQ}[m, 0]$
7075. $\text{Int}[\text{Cos}[(a_.) + (b_.)(x_)]*((e_.) + (f_.)(x_))^{(m_.)}*\text{SinIntegral}[(c_.) + (d_.)(x_)], x_Symbol]$ $\text{:> Simp}[(e + f*x)^{(m+1)}*\text{Cos}[a + b*x]*(\text{SinIntegral}[c + d*x]/(f*(m+1))), x] + (\text{Simp}[b/(f*(m+1)) \text{ Int}[(e + f*x)^{(m+1)}*\text{Sin}[a + b*x]*\text{SinIntegral}[c + d*x], x], x] - \text{Simp}[d/(f*(m+1)) \text{ Int}[(e + f*x)^{(m+1)}*\text{Cos}[a + b*x]*(\text{Sin}[c + d*x]/(c + d*x)), x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x]$ && $\text{ILtQ}[m, -1]$
7076. $\text{Int}[\text{CosIntegral}[(c_.) + (d_.)(x_)]*((e_.) + (f_.)(x_))^{(m_.)}*\text{Sin}[(a_.) + (b_.)(x_)], x_Symbol]$ $\text{:> Simp}[(e + f*x)^{(m+1)}*\text{Sin}[a + b*x]*(\text{CosIntegral}[c + d*x]/(f*(m+1))), x] + (-\text{Simp}[b/(f*(m+1)) \text{ Int}[(e + f*x)^{(m+1)}*\text{Cos}[a + b*x]*\text{CosIntegral}[c + d*x], x], x] - \text{Simp}[d/(f*(m+1)) \text{ Int}[(e + f*x)^{(m+1)}*\text{Sin}[a + b*x]*(\text{Cos}[c + d*x]/(c + d*x)), x], x]) /;$ $\text{FreeQ}\{a, b, c, d, e, f\}, x]$ && $\text{ILtQ}[m, -1]$
7077. $\text{Int}[\text{SinIntegral}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}]*(b_.)]*(d_.)], x_Symbol]$
 $\text{:> Simp}[x*\text{SinIntegral}[d*(a + b*\text{Log}[c*x^n])], x] - \text{Simp}[b*d*n \text{ Int}[\text{Sin}[d*(a + b*\text{Log}[c*x^n])]/(d*(a + b*\text{Log}[c*x^n])), x], x] /;$ $\text{FreeQ}\{a, b, c, d, n\}, x]$

7078. $\text{Int}[\text{CosIntegral}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)](d_.)], x_Symbol]$
 $\text{Int}[x \text{CosIntegral}[d*(a + b*\text{Log}[c*x^n])], x] - \text{Simp}[b*d*n \text{Int}[\text{Cos}[d*(a + b*\text{Log}[c*x^n])]/(d*(a + b*\text{Log}[c*x^n])], x], x] /;$ $\text{FreeQ}[\{a, b, c, d, n\}, x]$
7079. $\text{Int}[(F_)[((a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)](d_.)](x_), x_Symbol]$
 $\text{Int}[1/n \text{Subst}[F[d*(a + b*x)], x, \text{Log}[c*x^n]], x] /;$ $\text{FreeQ}[\{a, b, c, d, n\}, x]$ && $\text{MemberQ}[\{\text{SinIntegral}, \text{CosIntegral}\}, x]$
7080. $\text{Int}[(e_.)(x_)^{(m_.)}\text{SinIntegral}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)](d_.)], x_Symbol]$
 $\text{Int}[(e*x)^{(m+1)}*(\text{SinIntegral}[d*(a + b*\text{Log}[c*x^n])]/(e*(m+1))), x] - \text{Simp}[b*d*(n/(m+1)) \text{Int}[(e*x)^m*(\text{Sin}[d*(a + b*\text{Log}[c*x^n])]/(d*(a + b*\text{Log}[c*x^n]))], x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$ && $\text{NeQ}[m, -1]$
7081. $\text{Int}[\text{CosIntegral}[(a_.) + \text{Log}[(c_.)(x_)^{(n_.)}](b_.)](d_.)](e_.)(x_)^{(m_.)}, x_Symbol]$
 $\text{Int}[(e*x)^{(m+1)}*(\text{CosIntegral}[d*(a + b*\text{Log}[c*x^n])]/(e*(m+1))), x] - \text{Simp}[b*d*(n/(m+1)) \text{Int}[(e*x)^m*(\text{Cos}[d*(a + b*\text{Log}[c*x^n])]/(d*(a + b*\text{Log}[c*x^n]))], x], x] /;$ $\text{FreeQ}[\{a, b, c, d, e, m, n\}, x]$ && $\text{NeQ}[m, -1]$
7082. $\text{Int}[\text{SinhIntegral}[(a_.) + (b_.)(x_)], x_Symbol]$
 $\text{Int}[(a + b*x)*(\text{SinhIntegral}[a + b*x]/b), x] - \text{Simp}[\text{Cosh}[a + b*x]/b, x] /;$ $\text{FreeQ}[\{a, b\}, x]$
7083. $\text{Int}[\text{CoshIntegral}[(a_.) + (b_.)(x_)], x_Symbol]$
 $\text{Int}[(a + b*x)*(\text{CoshIntegral}[a + b*x]/b), x] - \text{Simp}[\text{Sinh}[a + b*x]/b, x] /;$ $\text{FreeQ}[\{a, b\}, x]$
7084. $\text{Int}[\text{SinhIntegral}[(b_.)(x_)](x_), x_Symbol]$
 $\text{Int}[(1/2)*b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, (-b)*x], x] + \text{Simp}[(1/2)*b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, b*x], x] /;$ $\text{FreeQ}[b, x]$
7085. $\text{Int}[\text{CoshIntegral}[(b_.)(x_)](x_), x_Symbol]$
 $\text{Int}[(-2^{(-1)})*b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, (-b)*x], x] + (\text{Simp}[(1/2)*b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, b*x], x])$

- $\text{ergeometricPFQ}\{1, 1, 1\}, \{2, 2, 2\}, b*x, x] + \text{Simp}[\text{EulerGamma}*\text{Log}[x], x] + \text{Simp}[(1/2)*\text{Log}[b*x]^2, x]) /; \text{FreeQ}[b, x]$
7086. $\text{Int}[(c + d*x)^m * \text{SinhIntegral}[a + b*x], x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{m+1} * (\text{SinhIntegral}[a + b*x] / (d*(m+1))), x] - \text{Simp}[b / (d*(m+1)) \text{Int}[(c + d*x)^{m+1} * (\text{Sinh}[a + b*x] / (a + b*x)), x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x \ \&\& \ \text{NeQ}[m, -1]$
7087. $\text{Int}[\text{CoshIntegral}[a + b*x] * (c + d*x)^m, x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{m+1} * (\text{CoshIntegral}[a + b*x] / (d*(m+1))), x] - \text{Simp}[b / (d*(m+1)) \text{Int}[(c + d*x)^{m+1} * (\text{Cosh}[a + b*x] / (a + b*x)), x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x \ \&\& \ \text{NeQ}[m, -1]$
7088. $\text{Int}[\text{SinhIntegral}[a + b*x]^2, x_Symbol] \rightarrow \text{Simp}[(a + b*x) * (\text{SinhIntegral}[a + b*x]^2 / b), x] - \text{Simp}[2 \text{Int}[\text{Sinh}[a + b*x] * \text{SinhIntegral}[a + b*x], x], x] /; \text{FreeQ}\{a, b\}, x$
7089. $\text{Int}[\text{CoshIntegral}[a + b*x]^2, x_Symbol] \rightarrow \text{Simp}[(a + b*x) * (\text{CoshIntegral}[a + b*x]^2 / b), x] - \text{Simp}[2 \text{Int}[\text{Cosh}[a + b*x] * \text{CoshIntegral}[a + b*x], x], x] /; \text{FreeQ}\{a, b\}, x$
7090. $\text{Int}[x^m * \text{SinhIntegral}[b*x]^2, x_Symbol] \rightarrow \text{Simp}[x^{m+1} * (\text{SinhIntegral}[b*x]^2 / (m+1)), x] - \text{Simp}[2 / (m+1) \text{Int}[x^m * \text{Sinh}[b*x] * \text{SinhIntegral}[b*x], x], x] /; \text{FreeQ}[b, x] \ \&\& \ \text{IGtQ}[m, 0]$
7091. $\text{Int}[\text{CoshIntegral}[b*x]^2 * x^m, x_Symbol] \rightarrow \text{Simp}[x^{m+1} * (\text{CoshIntegral}[b*x]^2 / (m+1)), x] - \text{Simp}[2 / (m+1) \text{Int}[x^m * \text{Cosh}[b*x] * \text{CoshIntegral}[b*x], x], x] /; \text{FreeQ}[b, x] \ \&\& \ \text{IGtQ}[m, 0]$
7092. $\text{Int}[(c + d*x)^m * \text{SinhIntegral}[a + b*x]^2, x_Symbol] \rightarrow \text{Simp}[(a + b*x) * (c + d*x)^m * (\text{SinhIntegral}[a + b*x]^2 / (b*(m+1))), x] + (-\text{Simp}[2 / (m+1) \text{Int}[(c + d*x)^m * \text{Sinh}[a + b*x] * \text{SinhIntegral}[a + b*x], x], x] + \text{Simp}[(b*c - a*d) * (m / (b*(m+1))) \text{Int}[(c + d*x)^{m-1} * \text{SinhIntegral}[a + b*x]^2, x], x]) /; \text{FreeQ}\{a, b, c, d\}, x \ \&\& \ \text{IGtQ}[m, 0]$

7093. `Int[CoshIntegral[(a_) + (b_)*(x_)]^2*((c_) + (d_)*(x_))^(m_), x_Symbol] := Simp[(a + b*x)*(c + d*x)^m*(CoshIntegral[a + b*x]^2/(b*(m + 1))), x] + (-Simp[2/(m + 1) Int[(c + d*x)^m*Cosh[a + b*x]*CoshIntegral[a + b*x], x], x] + Simp[(b*c - a*d)*(m/(b*(m + 1))) Int[(c + d*x)^(m - 1)*CoshIntegral[a + b*x]^2, x], x]) /; FreeQ[{a, b, c, d}, x] && IGtQ[m, 0]`
7094. `Int[Sinh[(a_) + (b_)*(x_)]*SinhIntegral[(c_) + (d_)*(x_)], x_Symbol] := Simp[Cosh[a + b*x]*(SinhIntegral[c + d*x]/b), x] - Simp[d/b Int[Cosh[a + b*x]*(Sinh[c + d*x]/(c + d*x)), x], x] /; FreeQ[{a, b, c, d}, x]`
7095. `Int[Cosh[(a_) + (b_)*(x_)]*CoshIntegral[(c_) + (d_)*(x_)], x_Symbol] := Simp[Sinh[a + b*x]*(CoshIntegral[c + d*x]/b), x] - Simp[d/b Int[Sinh[a + b*x]*(Cosh[c + d*x]/(c + d*x)), x], x] /; FreeQ[{a, b, c, d}, x]`
7096. `Int[((e_) + (f_)*(x_))^(m_)*Sinh[(a_) + (b_)*(x_)]*SinhIntegral[(c_) + (d_)*(x_)], x_Symbol] := Simp[(e + f*x)^m*Cosh[a + b*x]*(SinhIntegral[c + d*x]/b), x] + (-Simp[d/b Int[(e + f*x)^m*Cosh[a + b*x]*(Sinh[c + d*x]/(c + d*x)), x], x] - Simp[f*(m/b) Int[(e + f*x)^(m - 1)*Cosh[a + b*x]*SinhIntegral[c + d*x], x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0]`
7097. `Int[Cosh[(a_) + (b_)*(x_)]*CoshIntegral[(c_) + (d_)*(x_)]*((e_) + (f_)*(x_))^(m_), x_Symbol] := Simp[(e + f*x)^m*Sinh[a + b*x]*(CoshIntegral[c + d*x]/b), x] + (-Simp[d/b Int[(e + f*x)^m*Sinh[a + b*x]*(Cosh[c + d*x]/(c + d*x)), x], x] - Simp[f*(m/b) Int[(e + f*x)^(m - 1)*Sinh[a + b*x]*CoshIntegral[c + d*x], x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && IGtQ[m, 0]`
7098. `Int[((e_) + (f_)*(x_))^(m_)*Sinh[(a_) + (b_)*(x_)]*SinhIntegral[(c_) + (d_)*(x_)], x_Symbol] := Simp[(e + f*x)^(m + 1)*Sinh[a + b*x]*(SinhIntegral[c + d*x]/(f*(m + 1))), x] + (-Simp[b/(f*(m + 1)) Int[(e + f*x)^(m + 1)*Cosh[a + b*x]*SinhIntegral[c + d*x], x], x] - Simp[d/(f*(m + 1)) Int[(e + f*x)^(m + 1)*Sinh[a + b*x]*(Sinh[c + d*x]/(c + d*x)), x], x]) /; FreeQ[{a, b, c, d, e, f}, x] && ILtQ[m, -1]`

7099. $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_)] * \text{CoshIntegral}[(c_.) + (d_.)(x_)] * ((e_.) + (f_.)(x_))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)} * \text{Cosh}[a + b*x] * (\text{CoshIntegral}[c + d*x] / (f*(m + 1))), x] + (-\text{Simp}[b / (f*(m + 1))] \text{Int}[(e + f*x)^{(m + 1)} * \text{Sinh}[a + b*x] * \text{CoshIntegral}[c + d*x], x], x] - \text{Simp}[d / (f*(m + 1))] \text{Int}[(e + f*x)^{(m + 1)} * \text{Cosh}[a + b*x] * (\text{Cosh}[c + d*x] / (c + d*x)), x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{ILtQ}[m, -1]$
7100. $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_)] * \text{SinhIntegral}[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[\text{Sinh}[a + b*x] * (\text{SinhIntegral}[c + d*x] / b), x] - \text{Simp}[d / b] \text{Int}[\text{Sinh}[a + b*x] * (\text{Sinh}[c + d*x] / (c + d*x)), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x]$
7101. $\text{Int}[\text{CoshIntegral}[(c_.) + (d_.)(x_)] * \text{Sinh}[(a_.) + (b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[\text{Cosh}[a + b*x] * (\text{CoshIntegral}[c + d*x] / b), x] - \text{Simp}[d / b] \text{Int}[\text{Cosh}[a + b*x] * (\text{Cosh}[c + d*x] / (c + d*x)), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x]$
7102. $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_)] * ((e_.) + (f_.)(x_))^{(m_.)} * \text{SinhIntegral}[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^m * \text{Sinh}[a + b*x] * (\text{SinhIntegral}[c + d*x] / b), x] + (-\text{Simp}[d / b] \text{Int}[(e + f*x)^m * \text{Sinh}[a + b*x] * (\text{Sinh}[c + d*x] / (c + d*x)), x], x] - \text{Simp}[f*(m/b)] \text{Int}[(e + f*x)^{(m - 1)} * \text{Sinh}[a + b*x] * \text{SinhIntegral}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
7103. $\text{Int}[\text{CoshIntegral}[(c_.) + (d_.)(x_)] * ((e_.) + (f_.)(x_))^{(m_.)} * \text{Sinh}[(a_.) + (b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^m * \text{Cosh}[a + b*x] * (\text{CoshIntegral}[c + d*x] / b), x] + (-\text{Simp}[d / b] \text{Int}[(e + f*x)^m * \text{Cosh}[a + b*x] * (\text{Cosh}[c + d*x] / (c + d*x)), x], x] - \text{Simp}[f*(m/b)] \text{Int}[(e + f*x)^{(m - 1)} * \text{Cosh}[a + b*x] * \text{CoshIntegral}[c + d*x], x], x] /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
7104. $\text{Int}[\text{Cosh}[(a_.) + (b_.)(x_)] * ((e_.) + (f_.)(x_))^{(m_.)} * \text{SinhIntegral}[(c_.) + (d_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)} * \text{Cosh}[a + b*x] * (\text{SinhIntegral}[c + d*x] / (f*(m + 1))), x] + (-\text{Simp}[b / (f*(m + 1))] \text{Int}[(e + f*x)^{(m + 1)} * \text{Sinh}[a + b*x] * \text{SinhIntegral}[c + d*x], x], x] - \text{Simp}[d / (f*(m + 1))] \text{Int}[(e + f*x)^{(m + 1)} * \text{Cosh}[a + b*x] * (\text{Sinh}[c + d*x] / (c +$

- $d*x)), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{ILtQ}[m, -1]$
7105. $\text{Int}[\text{CoshIntegral}[(c_.) + (d_.)*(x_.)]*((e_.) + (f_.)*(x_.))^{(m_.)}*\text{Sinh}[(a_.) + (b_.)*(x_.)], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^{(m + 1)}*\text{Sinh}[a + b*x]*(\text{CoshIntegral}[c + d*x]/(f*(m + 1))), x] + (-\text{Simp}[b/(f*(m + 1)) \ \text{Int}[(e + f*x)^{(m + 1)}*\text{Cosh}[a + b*x]*\text{CoshIntegral}[c + d*x], x], x] - \text{Simp}[d/(f*(m + 1)) \ \text{Int}[(e + f*x)^{(m + 1)}*\text{Sinh}[a + b*x]*(\text{Cosh}[c + d*x]/(c + d*x)), x], x]) /; \text{FreeQ}[\{a, b, c, d, e, f\}, x] \ \&\& \ \text{ILtQ}[m, -1]$
7106. $\text{Int}[\text{SinhIntegral}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[x*\text{SinhIntegral}[d*(a + b*\text{Log}[c*x^n])], x] - \text{Simp}[b*d*n \ \text{Int}[\text{Sinh}[d*(a + b*\text{Log}[c*x^n])]/(d*(a + b*\text{Log}[c*x^n])), x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
7107. $\text{Int}[\text{CoshIntegral}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[x*\text{CoshIntegral}[d*(a + b*\text{Log}[c*x^n])], x] - \text{Simp}[b*d*n \ \text{Int}[\text{Cosh}[d*(a + b*\text{Log}[c*x^n])]/(d*(a + b*\text{Log}[c*x^n])), x], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x]$
7108. $\text{Int}[(F_)[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.)]*(d_.)]/(x_), x_Symbol] \rightarrow \text{Simp}[1/n \ \text{Subst}[F[d*(a + b*x)], x, \text{Log}[c*x^n]], x] /; \text{FreeQ}[\{a, b, c, d, n\}, x] \ \&\& \ \text{MemberQ}[\{\text{SinhIntegral}, \text{CoshIntegral}\}, x]$
7109. $\text{Int}[(e_.)*(x_.))^{(m_.)}*\text{SinhIntegral}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.)]*(d_.)], x_Symbol] \rightarrow \text{Simp}[(e*x)^{(m + 1)}*(\text{SinhIntegral}[d*(a + b*\text{Log}[c*x^n])]/(e*(m + 1))), x] - \text{Simp}[b*d*(n/(m + 1)) \ \text{Int}[(e*x)^m*(\text{Sinh}[d*(a + b*\text{Log}[c*x^n])]/(d*(a + b*\text{Log}[c*x^n])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{NeQ}[m, -1]$
7110. $\text{Int}[\text{CoshIntegral}[(a_.) + \text{Log}[(c_.)*(x_.)^{(n_.)}]*(b_.)]*(d_.)]*((e_.)*(x_.))^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(e*x)^{(m + 1)}*(\text{CoshIntegral}[d*(a + b*\text{Log}[c*x^n])]/(e*(m + 1))), x] - \text{Simp}[b*d*(n/(m + 1)) \ \text{Int}[(e*x)^m*(\text{Cosh}[d*(a + b*\text{Log}[c*x^n])]/(d*(a + b*\text{Log}[c*x^n])), x], x] /; \text{FreeQ}[\{a, b, c, d, e, m, n\}, x] \ \&\& \ \text{NeQ}[m, -1]$

7111. $\text{Int}[\text{Gamma}[n_, (a_.) + (b_.)(x_)], x_Symbol] \rightarrow \text{Simp}[(a + b*x)*(\text{Gamma}[n, a + b*x]/b), x] - \text{Simp}[\text{Gamma}[n + 1, a + b*x]/b, x] /; \text{FreeQ}[\{a, b, n\}, x]$
7112. $\text{Int}[\text{Gamma}[0, (b_.)(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[b*x*\text{HypergeometricPFQ}[\{1, 1, 1\}, \{2, 2, 2\}, (-b)*x], x] + (-\text{Simp}[\text{EulerGamma}*\text{Log}[x], x] - \text{Simp}[(1/2)*\text{Log}[b*x]^2, x]) /; \text{FreeQ}[b, x]$
7113. $\text{Int}[\text{Gamma}[n_, (b_.)(x_)]/(x_), x_Symbol] \rightarrow -\text{Simp}[\text{Gamma}[n - 1, b*x], x] + \text{Simp}[(n - 1) \text{Int}[\text{Gamma}[n - 1, b*x]/x, x], x] /; \text{FreeQ}[b, x] \&\& \text{IGtQ}[n, 1]$
7114. $\text{Int}[\text{Gamma}[n_, (b_.)(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[\text{Gamma}[n, b*x]/n, x] + \text{Simp}[1/n \text{Int}[\text{Gamma}[n + 1, b*x]/x, x], x] /; \text{FreeQ}[b, x] \&\& \text{ILtQ}[n, 0]$
7115. $\text{Int}[\text{Gamma}[n_, (b_.)(x_)]/(x_), x_Symbol] \rightarrow \text{Simp}[\text{Gamma}[n]*\text{Log}[x], x] - \text{Simp}[(b*x)^n/n^2*\text{HypergeometricPFQ}[\{n, n\}, \{1 + n, 1 + n\}, (-b)*x], x] /; \text{FreeQ}[\{b, n\}, x] \&\& \text{IntegerQ}[n]$
7116. $\text{Int}[\text{Gamma}[n_, (b_.)(x_)]*((d_.)(x_))^(m_.), x_Symbol] \rightarrow \text{Simp}[(d*x)^(m + 1)*(\text{Gamma}[n, b*x]/(d*(m + 1))), x] - \text{Simp}[(d*x)^m*(\text{Gamma}[m + n + 1, b*x]/(b*(m + 1)*(b*x)^m)), x] /; \text{FreeQ}[\{b, d, m, n\}, x] \&\& \text{NeQ}[m, -1]$
7117. $\text{Int}[\text{Gamma}[n_, (a_) + (b_.)(x_)]*((c_) + (d_.)(x_))^(m_.), x_Symbol] \rightarrow \text{Simp}[1/b \text{Subst}[\text{Int}[(d*(x/b))^m*\text{Gamma}[n, x], x], x, a + b*x], x] /; \text{FreeQ}[\{a, b, c, d, m, n\}, x] \&\& \text{EqQ}[b*c - a*d, 0]$
7118. $\text{Int}[\text{Gamma}[n_, (a_.) + (b_.)(x_)]/((c_.) + (d_.)(x_)), x_Symbol] \rightarrow \text{Int}[(a + b*x)^(n - 1)/((c + d*x)*E^(a + b*x)), x] + \text{Simp}[(n - 1) \text{Int}[\text{Gamma}[n - 1, a + b*x]/(c + d*x), x], x] /; \text{FreeQ}[\{a, b, c, d\}, x] \&\& \text{IGtQ}[n, 1]$
7119. $\text{Int}[\text{Gamma}[n_, (a_.) + (b_.)(x_)]*((c_.) + (d_.)(x_))^(m_.), x_Symbol] \rightarrow \text{Block}[\{\$UseGamma = \text{True}\}, \text{Simp}[(c + d*x)^(m + 1)*(\text{Gamma}[n, a + b*x$

- $x]/(d*(m + 1))), x] + \text{Simp}[b/(d*(m + 1)) \text{ Int}[(c + d*x)^{(m + 1)}*((a + b*x)^{(n - 1)}/E^{(a + b*x)}), x], x]] /; \text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& (\text{IGtQ}[m, 0] \parallel \text{IGtQ}[n, 0] \parallel \text{IntegersQ}[m, n]) \&\& \text{NeQ}[m, -1]$
7120. $\text{Int}[\text{Gamma}[n_, (a_.) + (b_.)*(x_)]*((c_.) + (d_.)*(x_))^{(m_.)}, x_Symbol] \text{ :> } \text{Unintegrable}[(c + d*x)^m * \text{Gamma}[n, a + b*x], x] /; \text{FreeQ}\{a, b, c, d, m, n\}, x]$
7121. $\text{Int}[\text{LogGamma}[(a_.) + (b_.)*(x_)], x_Symbol] \text{ :> } \text{Simp}[\text{PolyGamma}[-2, a + b*x]/b, x] /; \text{FreeQ}\{a, b\}, x]$
7122. $\text{Int}[\text{LogGamma}[(a_.) + (b_.)*(x_)]*((c_.) + (d_.)*(x_))^{(m_.)}, x_Symbol] \text{ :> } \text{Simp}[(c + d*x)^m * (\text{PolyGamma}[-2, a + b*x]/b), x] - \text{Simp}[d*(m/b) \text{ Int}[(c + d*x)^{(m - 1)} * \text{PolyGamma}[-2, a + b*x], x], x] /; \text{FreeQ}\{a, b, c, d\}, x\} \&\& \text{IGtQ}[m, 0]$
7123. $\text{Int}[\text{LogGamma}[(a_.) + (b_.)*(x_)]*((c_.) + (d_.)*(x_))^{(m_.)}, x_Symbol] \text{ :> } \text{Unintegrable}[(c + d*x)^m * \text{LogGamma}[a + b*x], x] /; \text{FreeQ}\{a, b, c, d, m\}, x]$
7124. $\text{Int}[\text{PolyGamma}[n_, (a_.) + (b_.)*(x_)], x_Symbol] \text{ :> } \text{Simp}[\text{PolyGamma}[n - 1, a + b*x]/b, x] /; \text{FreeQ}\{a, b, n\}, x]$
7125. $\text{Int}[(c_.) + (d_.)*(x_))^{(m_.)} * \text{PolyGamma}[n_, (a_.) + (b_.)*(x_)], x_Symbol] \text{ :> } \text{Simp}[(c + d*x)^m * (\text{PolyGamma}[n - 1, a + b*x]/b), x] - \text{Simp}[d*(m/b) \text{ Int}[(c + d*x)^{(m - 1)} * \text{PolyGamma}[n - 1, a + b*x], x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x\} \&\& \text{GtQ}[m, 0]$
7126. $\text{Int}[(c_.) + (d_.)*(x_))^{(m_.)} * \text{PolyGamma}[n_, (a_.) + (b_.)*(x_)], x_Symbol] \text{ :> } \text{Simp}[(c + d*x)^{(m + 1)} * (\text{PolyGamma}[n, a + b*x]/(d*(m + 1))), x] - \text{Simp}[b/(d*(m + 1)) \text{ Int}[(c + d*x)^{(m + 1)} * \text{PolyGamma}[n + 1, a + b*x], x], x] /; \text{FreeQ}\{a, b, c, d, n\}, x\} \&\& \text{LtQ}[m, -1]$
7127. $\text{Int}[(c_.) + (d_.)*(x_))^{(m_.)} * \text{PolyGamma}[n_, (a_.) + (b_.)*(x_)], x_Symbol] \text{ :> } \text{Unintegrable}[(c + d*x)^m * \text{PolyGamma}[n, a + b*x], x] /; \text{FreeQ}\{$

a, b, c, d, m, n}, x]

7128. `Int[Gamma[(a_.) + (b_.)*(x_)]^(n_.)*PolyGamma[0, (a_.) + (b_.)*(x_)], x_Symbol] := Simp[Gamma[a + b*x]^n/(b*n), x] /; FreeQ[{a, b, n}, x]`
7129. `Int[((a_.) + (b_.)*(x_))!^(n_.)*PolyGamma[0, (c_.) + (b_.)*(x_)], x_Symbol] := Simp[(a + b*x)!^n/(b*n), x] /; FreeQ[{a, b, c, n}, x] && EqQ[c, a + 1]`
7130. `Int[Gamma[p_, ((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)], x_Symbol] := Simp[x*Gamma[p, d*(a + b*Log[c*x^n])], x] + Simp[(b*d*n)/E^(a*d) Int[(d*(a + b*Log[c*x^n]))^(p - 1)/(c*x^n)^(b*d), x], x] /; FreeQ[{a, b, c, d, n, p}, x]`
7131. `Int[Gamma[p_, ((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.)]/(x_), x_Symbol] := Simp[1/n Subst[Gamma[p, d*(a + b*x)], x, Log[c*x^n]], x] /; FreeQ[{a, b, c, d, n, p}, x]`
7132. `Int[Gamma[p_, ((a_.) + Log[(c_.)*(x_)^(n_.)]*(b_.))*(d_.))*((e_.)*(x_)^(m_.), x_Symbol] := Simp[(e*x)^(m + 1)*(Gamma[p, d*(a + b*Log[c*x^n])]/(e*(m + 1))), x] + Simp[(b*d*n*((e*x)^(b*d*n)/((m + 1)*(c*x^n)^(b*d))))/E^(a*d) Int[(e*x)^(m - b*d*n)*(d*(a + b*Log[c*x^n]))^(p - 1), x], x] /; FreeQ[{a, b, c, d, e, m, n, p}, x] && NeQ[m, -1]`
7133. `Int[Gamma[p_, ((a_.) + Log[(c_.)*((d_) + (e_.)*(x_)^(n_.)]*(b_.))*(f_.)], x_Symbol] := Simp[1/e Subst[Int[Gamma[p, f*(a + b*Log[c*x^n])], x], x, d + e*x], x] /; FreeQ[{a, b, c, d, e, f, n, p}, x]`
7134. `Int[Gamma[p_, ((a_.) + Log[(c_.)*((d_) + (e_.)*(x_)^(n_.)]*(b_.))*(f_.))*((g_.) + (h_.)*(x_)^(m_.), x_Symbol] := Simp[1/e Subst[Int[(g*(x/d))^m*Gamma[p, f*(a + b*Log[c*x^n])], x], x, d + e*x], x] /; FreeQ[{a, b, c, d, e, f, g, h, m, n, p}, x] && EqQ[e*g - d*h, 0]`
7135. `Int[Zeta[2, (a_.) + (b_.)*(x_)], x_Symbol] := Int[PolyGamma[1, a + b*x], x] /; FreeQ[{a, b}, x]`

7136. $\text{Int}[\text{Zeta}[s, (a.) + (b.)(x)], x_Symbol] \rightarrow \text{Simp}[-\text{Zeta}[s - 1, a + b*x]/(b*(s - 1)), x] /;$ $\text{FreeQ}\{a, b, s, x\} \ \&\& \ \text{NeQ}[s, 1] \ \&\& \ \text{NeQ}[s, 2]$
7137. $\text{Int}[((c.) + (d.)(x))^{(m.)} * \text{Zeta}[2, (a.) + (b.)(x)], x_Symbol] \rightarrow \text{Int}[(c + d*x)^m * \text{PolyGamma}[1, a + b*x], x] /;$ $\text{FreeQ}\{a, b, c, d, x\} \ \&\& \ \text{RationalQ}[m]$
7138. $\text{Int}[((c.) + (d.)(x))^{(m.)} * \text{Zeta}[s, (a.) + (b.)(x)], x_Symbol] \rightarrow \text{Simp}[(-(c + d*x)^m) * (\text{Zeta}[s - 1, a + b*x]/(b*(s - 1))), x] + \text{Simp}[d*(m/(b*(s - 1))) \ \text{Int}[(c + d*x)^{(m - 1)} * \text{Zeta}[s - 1, a + b*x], x], x] /;$ $\text{FreeQ}\{a, b, c, d, s, x\} \ \&\& \ \text{NeQ}[s, 1] \ \&\& \ \text{NeQ}[s, 2] \ \&\& \ \text{GtQ}[m, 0]$
7139. $\text{Int}[((c.) + (d.)(x))^{(m.)} * \text{Zeta}[s, (a.) + (b.)(x)], x_Symbol] \rightarrow \text{Simp}[(c + d*x)^{(m + 1)} * (\text{Zeta}[s, a + b*x]/(d*(m + 1))), x] + \text{Simp}[b * (s/(d*(m + 1))) \ \text{Int}[(c + d*x)^{(m + 1)} * \text{Zeta}[s + 1, a + b*x], x], x] /;$ $\text{FreeQ}\{a, b, c, d, s, x\} \ \&\& \ \text{NeQ}[s, 1] \ \&\& \ \text{NeQ}[s, 2] \ \&\& \ \text{LtQ}[m, -1]$
7140. $\text{Int}[\text{PolyLog}[n, (a.) * ((b.)(x)^{(p.)})^{(q.)}], x_Symbol] \rightarrow \text{Simp}[x * \text{PolyLog}[n, a*(b*x^p)^q], x] - \text{Simp}[p*q \ \text{Int}[\text{PolyLog}[n - 1, a*(b*x^p)^q], x], x] /;$ $\text{FreeQ}\{a, b, p, q, x\} \ \&\& \ \text{GtQ}[n, 0]$
7141. $\text{Int}[\text{PolyLog}[n, (a.) * ((b.)(x)^{(p.)})^{(q.)}], x_Symbol] \rightarrow \text{Simp}[x * (\text{PolyLog}[n + 1, a*(b*x^p)^q]/(p*q)), x] - \text{Simp}[1/(p*q) \ \text{Int}[\text{PolyLog}[n + 1, a*(b*x^p)^q], x], x] /;$ $\text{FreeQ}\{a, b, p, q, x\} \ \&\& \ \text{LtQ}[n, -1]$
7142. $\text{Int}[\text{PolyLog}[n, (a.) * ((b.)(x)^{(p.)})^{(q.)}], x_Symbol] \rightarrow \text{Unintegrateable}[\text{PolyLog}[n, a*(b*x^p)^q], x] /;$ $\text{FreeQ}\{a, b, n, p, q, x\}$
7143. $\text{Int}[\text{PolyLog}[n, (c.) * ((a.) + (b.)(x))^{(p.)}] / ((d.) + (e.)(x)), x_Symbol] \rightarrow \text{Simp}[\text{PolyLog}[n + 1, c*(a + b*x)^p]/(e*p), x] /;$ $\text{FreeQ}\{a, b, c, d, e, n, p, x\} \ \&\& \ \text{EqQ}[b*d, a*e]$
7144. $\text{Int}[\text{PolyLog}[n, (a.) * ((b.)(x)^{(p.)})^{(q.)}] / (x), x_Symbol] \rightarrow \text{Simp}[\text{PolyLog}[n + 1, a*(b*x^p)^q]/(p*q), x] /;$ $\text{FreeQ}\{a, b, n, p, q, x\}$

7145. $\text{Int}[(d \cdot x)^m \cdot \text{PolyLog}[n, a \cdot (b \cdot x)^p]^q], x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (\text{PolyLog}[n, a \cdot (b \cdot x)^p]^q / (d \cdot (m+1))), x] - \text{Simp}[p \cdot (q / (m+1)) \text{Int}[(d \cdot x)^m \cdot \text{PolyLog}[n-1, a \cdot (b \cdot x)^p]^q], x], x] /; \text{FreeQ}\{a, b, d, m, p, q\}, x \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{GtQ}[n, 0]$
7146. $\text{Int}[(d \cdot x)^m \cdot \text{PolyLog}[n, a \cdot (b \cdot x)^p]^q], x_{\text{Symbol}}] \rightarrow \text{Simp}[(d \cdot x)^{m+1} \cdot (\text{PolyLog}[n+1, a \cdot (b \cdot x)^p]^q / (d \cdot p \cdot q)), x] - \text{Simp}[(m+1) / (p \cdot q) \text{Int}[(d \cdot x)^m \cdot \text{PolyLog}[n+1, a \cdot (b \cdot x)^p]^q], x], x] /; \text{FreeQ}\{a, b, d, m, p, q\}, x \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ \text{LtQ}[n, -1]$
7147. $\text{Int}[(d \cdot x)^m \cdot \text{PolyLog}[n, a \cdot (b \cdot x)^p]^q], x_{\text{Symbol}}] \rightarrow \text{Unintegrable}[(d \cdot x)^m \cdot \text{PolyLog}[n, a \cdot (b \cdot x)^p]^q], x] /; \text{FreeQ}\{a, b, d, m, n, p, q\}, x]$
7148. $\text{Int}[(\text{Log}[c \cdot x^m])^r \cdot \text{PolyLog}[n, a \cdot (b \cdot x)^p]^q] / (x), x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Log}[c \cdot x^m]^r \cdot (\text{PolyLog}[n+1, a \cdot (b \cdot x)^p]^q / (p \cdot q)), x] - \text{Simp}[m \cdot (r / (p \cdot q)) \text{Int}[\text{Log}[c \cdot x^m]^{r-1} \cdot (\text{PolyLog}[n+1, a \cdot (b \cdot x)^p]^q / x)], x], x] /; \text{FreeQ}\{a, b, c, m, n, q, r\}, x \ \&\& \ \text{GtQ}[r, 0]$
7149. $\text{Int}[\text{PolyLog}[n, c \cdot (a + b \cdot x)^p], x_{\text{Symbol}}] \rightarrow \text{Simp}[x \cdot \text{PolyLog}[n, c \cdot (a + b \cdot x)^p], x] + (-\text{Simp}[p \text{Int}[\text{PolyLog}[n-1, c \cdot (a + b \cdot x)^p], x], x] + \text{Simp}[a \cdot p \text{Int}[\text{PolyLog}[n-1, c \cdot (a + b \cdot x)^p] / (a + b \cdot x)], x], x]) /; \text{FreeQ}\{a, b, c, p\}, x \ \&\& \ \text{GtQ}[n, 0]$
7150. $\text{Int}[\text{PolyLog}[2, c \cdot (a + b \cdot x)] / ((d + e \cdot x)), x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Log}[1 - a \cdot c - b \cdot c \cdot x] \cdot (\text{PolyLog}[2, c \cdot (a + b \cdot x)] / e), x] + \text{Simp}[b / e \text{Int}[\text{Log}[1 - a \cdot c - b \cdot c \cdot x]^2 / (a + b \cdot x)], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{EqQ}[c \cdot (b \cdot d - a \cdot e) + e, 0]$
7151. $\text{Int}[\text{PolyLog}[2, c \cdot (a + b \cdot x)] / ((d + e \cdot x)), x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Log}[d + e \cdot x] \cdot (\text{PolyLog}[2, c \cdot (a + b \cdot x)] / e), x] + \text{Simp}[b / e \text{Int}[\text{Log}[d + e \cdot x] \cdot (\text{Log}[1 - a \cdot c - b \cdot c \cdot x] / (a + b \cdot x))], x], x] /; \text{FreeQ}\{a, b, c, d, e\}, x \ \&\& \ \text{NeQ}[c \cdot (b \cdot d - a \cdot e) + e, 0]$

7152. $\text{Int}[(d + e x)^m \text{PolyLog}[2, (c + (a + b x)x)], x_{\text{Symbol}}] \rightarrow \text{Simp}[(d + e x)^{m+1} \text{PolyLog}[2, c + (a + b x)x] / (e(m+1))], x] + \text{Simp}[b / (e(m+1)) \text{Int}[(d + e x)^{m+1} (\text{Log}[1 - a c - b c x] / (a + b x)), x], x] /; \text{FreeQ}\{a, b, c, d, e, m\}, x] \&\& \text{NeQ}[m, -1]$
7153. $\text{Int}[x^m \text{PolyLog}[n, (c + (a + b x)x)^p], x_{\text{Symbol}}] \rightarrow \text{Simp}[(-a^{m+1} - b^{m+1} x^{m+1}) \text{PolyLog}[n, c + (a + b x)x^p] / ((m+1) b^{m+1})], x] + \text{Simp}[p / ((m+1) b^m) \text{Int}[\text{ExpandIntegrand}[\text{PolyLog}[n-1, c + (a + b x)x^p], (a^{m+1} - b^{m+1} x^{m+1}) / (a + b x)], x], x], x] /; \text{FreeQ}\{a, b, c, p\}, x] \&\& \text{GtQ}[n, 0] \&\& \text{IntegerQ}[m] \&\& \text{NeQ}[m, -1]$
7154. $\text{Int}[(g + \text{Log}[f + (d + e x)^n]) \text{PolyLog}[2, (c + (a + b x)x)], x_{\text{Symbol}}] \rightarrow \text{Simp}[x(g + h \text{Log}[f + (d + e x)^n]) \text{PolyLog}[2, c + (a + b x)x], x] + (\text{Simp}[b \text{Int}[(g + h \text{Log}[f + (d + e x)^n]) \text{Log}[1 - a c - b c x] \text{ExpandIntegrand}[x / (a + b x)], x], x] - \text{Simp}[e h n \text{Int}[\text{PolyLog}[2, c + (a + b x)x] \text{ExpandIntegrand}[x / (d + e x)], x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, h, n\}, x]$
7155. $\text{Int}[(\text{Log}[1 + (e x)^2]) \text{PolyLog}[2, (c + (e x)^2)] / (e x), x_{\text{Symbol}}] \rightarrow \text{Simp}[-\text{PolyLog}[2, c x]^2 / 2, x] /; \text{FreeQ}\{c, e\}, x] \&\& \text{EqQ}[c + e, 0]$
7156. $\text{Int}[(\text{Log}[1 + (e x)^2]) (h + g) \text{PolyLog}[2, (c + (e x)^2)] / (e x), x_{\text{Symbol}}] \rightarrow \text{Simp}[g \text{Int}[\text{PolyLog}[2, c x] / x, x], x] + \text{Simp}[h \text{Int}[(\text{Log}[1 + e x] \text{PolyLog}[2, c x]) / x, x], x] /; \text{FreeQ}\{c, e, g, h\}, x] \&\& \text{EqQ}[c + e, 0]$
7157. $\text{Int}[(g + \text{Log}[f + (d + e x)^n]) (h + (e x)^m) \text{PolyLog}[2, (c + (a + b x)x)], x_{\text{Symbol}}] \rightarrow \text{Simp}[x^{m+1} (g + h \text{Log}[f + (d + e x)^n]) \text{PolyLog}[2, c + (a + b x)x] / (m+1)], x] + (\text{Simp}[b / (m+1) \text{Int}[\text{ExpandIntegrand}[(g + h \text{Log}[f + (d + e x)^n]) \text{Log}[1 - a c - b c x], x^{m+1} / (a + b x)], x], x] - \text{Simp}[e h (n / (m+1)) \text{Int}[\text{ExpandIntegrand}[\text{PolyLog}[2, c + (a + b x)x], x^{m+1} / (d + e x)], x], x]) /; \text{FreeQ}\{a, b, c, d, e, f, g, h, n\}, x] \&\& \text{IntegerQ}[m] \&\& \text{NeQ}[m, -1]$

7158. $\text{Int}[(g_{.}) + \text{Log}[(f_{.})*((d_{.}) + (e_{.})*(x_{.}))^{(n_{.})}](h_{.})](Px_{.})\text{PolyLog}[2, (c_{.})*((a_{.}) + (b_{.})*(x_{.}))], x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[Px, x]\}, \text{Simp}[u*(g + h*\text{Log}[f*(d + e*x)^n])*\text{PolyLog}[2, c*(a + b*x)], x] + (\text{Simp}[b \text{ Int}[\text{ExpandIntegrand}[(g + h*\text{Log}[f*(d + e*x)^n])*\text{Log}[1 - a*c - b*c*x], u/(a + b*x), x], x], x] - \text{Simp}[e*h*n \text{ Int}[\text{ExpandIntegrand}[\text{PolyLog}[2, c*(a + b*x)], u/(d + e*x), x], x], x])] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, n\}, x] \&\& \text{PolyQ}[Px, x]$
7159. $\text{Int}[(g_{.}) + \text{Log}[1 + (e_{.})*(x_{.})](h_{.})](Px_{.})*(x_{.})^{(m_{.})}\text{PolyLog}[2, (c_{.})*(x_{.})], x_Symbol] \rightarrow \text{Simp}[\text{Coeff}[Px, x, -m - 1] \text{ Int}[(g + h*\text{Log}[1 + e*x])*(\text{PolyLog}[2, c*x]/x), x], x] + \text{Int}[x^m*(Px - \text{Coeff}[Px, x, -m - 1]*x^{(-m - 1)})*(g + h*\text{Log}[1 + e*x])*\text{PolyLog}[2, c*x], x] /; \text{FreeQ}[\{c, e, g, h\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{ILtQ}[m, 0] \&\& \text{EqQ}[c + e, 0] \&\& \text{NeQ}[\text{Coeff}[Px, x, -m - 1], 0]$
7160. $\text{Int}[(g_{.}) + \text{Log}[(f_{.})*((d_{.}) + (e_{.})*(x_{.}))^{(n_{.})}](h_{.})](Px_{.})*(x_{.})^{(m_{.})}\text{PolyLog}[2, (c_{.})*((a_{.}) + (b_{.})*(x_{.}))], x_Symbol] \rightarrow \text{With}[\{u = \text{IntHide}[x^m*Px, x]\}, \text{Simp}[u*(g + h*\text{Log}[f*(d + e*x)^n])*\text{PolyLog}[2, c*(a + b*x)], x] + (\text{Simp}[b \text{ Int}[\text{ExpandIntegrand}[(g + h*\text{Log}[f*(d + e*x)^n])*\text{Log}[1 - a*c - b*c*x], u/(a + b*x), x], x], x] - \text{Simp}[e*h*n \text{ Int}[\text{ExpandIntegrand}[\text{PolyLog}[2, c*(a + b*x)], u/(d + e*x), x], x], x])] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, n\}, x] \&\& \text{PolyQ}[Px, x] \&\& \text{IntegerQ}[m]$
7161. $\text{Int}[(g_{.}) + \text{Log}[(f_{.})*((d_{.}) + (e_{.})*(x_{.}))^{(n_{.})}](h_{.})](Px_{.})*(x_{.})^{(m_{.})}\text{PolyLog}[2, (c_{.})*((a_{.}) + (b_{.})*(x_{.}))], x_Symbol] \rightarrow \text{Unintegrable}[Px*x^m*(g + h*\text{Log}[f*(d + e*x)^n])*\text{PolyLog}[2, c*(a + b*x)], x] /; \text{FreeQ}[\{a, b, c, d, e, f, g, h, m, n\}, x] \&\& \text{PolyQ}[Px, x]$
7162. $\text{Int}[\text{PolyLog}[n_{.}, (d_{.})*((F_{.})^{((c_{.})*((a_{.}) + (b_{.})*(x_{.})))})^{(p_{.})}], x_Symbol] \rightarrow \text{Simp}[\text{PolyLog}[n + 1, d*(F^{(c*(a + b*x))})^p]/(b*c*p*\text{Log}[F]), x] /; \text{FreeQ}[\{F, a, b, c, d, n, p\}, x]$
7163. $\text{Int}[(e_{.}) + (f_{.})*(x_{.})^{(m_{.})}\text{PolyLog}[n_{.}, (d_{.})*((F_{.})^{((c_{.})*((a_{.}) + (b_{.})*(x_{.})))})^{(p_{.})}], x_Symbol] \rightarrow \text{Simp}[(e + f*x)^m*(\text{PolyLog}[n + 1, d*(F^{(c*(a + b*x))})^p]/(b*c*p*\text{Log}[F])), x] - \text{Simp}[f*(m/(b*c*p*\text{Log}[F])) \text{ Int}[(e + f*x)^{(m - 1)}*\text{PolyLog}[n + 1, d*(F^{(c*(a + b*x))})^p], x], x] /; \text{FreeQ}[\{F, a, b, c, d, e, f, n, p\}, x] \&\& \text{GtQ}[m, 0]$

7164. $\text{Int}[(u_)*\text{PolyLog}[n_ , v_], x_ \text{Symbol}] \rightarrow \text{With}[\{w = \text{DerivativeDivides}[v, u*v, x]\}, \text{Simp}[w*\text{PolyLog}[n + 1, v], x] /; \text{!FalseQ}[w]] /; \text{FreeQ}[n, x]$
7165. $\text{Int}[\text{Log}[w_]*(u_)*\text{PolyLog}[n_ , v_], x_ \text{Symbol}] \rightarrow \text{With}[\{z = \text{DerivativeDivides}[v, u*v, x]\}, \text{Simp}[z*\text{Log}[w]*\text{PolyLog}[n + 1, v], x] - \text{Int}[\text{SimplifyIntegrand}[z*D[w, x]*(\text{PolyLog}[n + 1, v]/w), x], x] /; \text{!FalseQ}[z]] /; \text{FreeQ}[n, x] \&\& \text{InverseFunctionFreeQ}[w, x]$
7166. $\text{Int}[((c_)*\text{ProductLog}[(a_) + (b_)*(x_)])^{(p_)}, x_ \text{Symbol}] \rightarrow \text{Simp}[(a + b*x)*((c*\text{ProductLog}[a + b*x])^p/(b*(p + 1))), x] + \text{Simp}[p/(c*(p + 1)) \text{Int}[(c*\text{ProductLog}[a + b*x])^{(p + 1)}/(1 + \text{ProductLog}[a + b*x]), x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{LtQ}[p, -1]$
7167. $\text{Int}[((c_)*\text{ProductLog}[(a_) + (b_)*(x_)])^{(p_ .)}, x_ \text{Symbol}] \rightarrow \text{Simp}[(a + b*x)*((c*\text{ProductLog}[a + b*x])^p/b), x] - \text{Simp}[p \text{Int}[(c*\text{ProductLog}[a + b*x])^p/(1 + \text{ProductLog}[a + b*x]), x], x] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{!LtQ}[p, -1]$
7168. $\text{Int}[((e_) + (f_)*(x_))^{(m_)}*((c_)*\text{ProductLog}[(a_) + (b_)*(x_)])^{(p_ .)}, x_ \text{Symbol}] \rightarrow \text{Simp}[1/b^{(m + 1)} \text{Subst}[\text{Int}[\text{ExpandIntegrand}[(c*\text{ProductLog}[x])^p, (b*e - a*f + f*x)^m, x], x], x, a + b*x], x] /; \text{FreeQ}[\{a, b, c, e, f, p\}, x] \&\& \text{IGtQ}[m, 0]$
7169. $\text{Int}[((c_)*\text{ProductLog}[(a_)*(x_)^{(n_)}])^{(p_ .)}, x_ \text{Symbol}] \rightarrow \text{Simp}[x*(c*\text{ProductLog}[a*x^n])^p, x] - \text{Simp}[n*p \text{Int}[(c*\text{ProductLog}[a*x^n])^p/(1 + \text{ProductLog}[a*x^n]), x], x] /; \text{FreeQ}[\{a, c, n, p\}, x] \&\& (\text{EqQ}[n*(p - 1), -1] \|\| (\text{IntegerQ}[p - 1/2] \&\& \text{EqQ}[n*(p - 1/2), -1]))$
7170. $\text{Int}[((c_)*\text{ProductLog}[(a_)*(x_)^{(n_)}])^{(p_ .)}, x_ \text{Symbol}] \rightarrow \text{Simp}[x*((c*\text{ProductLog}[a*x^n])^p/(n*p + 1)), x] + \text{Simp}[n*(p/(c*(n*p + 1))) \text{Int}[(c*\text{ProductLog}[a*x^n])^{(p + 1)}/(1 + \text{ProductLog}[a*x^n]), x], x] /; \text{FreeQ}[\{a, c, n\}, x] \&\& ((\text{IntegerQ}[p] \&\& \text{EqQ}[n*(p + 1), -1]) \|\| (\text{IntegerQ}[p - 1/2] \&\& \text{EqQ}[n*(p + 1/2), -1]))$

7171. $\text{Int}[(c \cdot \text{ProductLog}[a \cdot (x)^n])^p, x_Symbol] \rightarrow -\text{Subst}[\text{Int}[(c \cdot \text{ProductLog}[a/x^n])^p/x^2, x], x, 1/x] /; \text{FreeQ}\{a, c, p\}, x \ \&\& \ \text{ILtQ}[n, 0]$
7172. $\text{Int}[(x)^m \cdot ((c \cdot \text{ProductLog}[a \cdot (x)^n])^p), x_Symbol] :> \text{Simp}[x^{m+1} \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^p/(m+1)), x] - \text{Simp}[n \cdot (p/(m+1)) \text{Int}[x^m \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^p/(1 + \text{ProductLog}[a \cdot x^n])), x], x] /; \text{FreeQ}\{a, c, m, n, p\}, x \ \&\& \ \text{NeQ}[m, -1] \ \&\& \ ((\text{IntegerQ}[p - 1/2] \ \&\& \ \text{IGtQ}[2 \cdot \text{Simplify}[p + (m+1)/n], 0]) \ || \ (!\text{IntegerQ}[p - 1/2] \ \&\& \ \text{IGtQ}[\text{Simplify}[p + (m+1)/n] + 1, 0]))$
7173. $\text{Int}[(x)^m \cdot ((c \cdot \text{ProductLog}[a \cdot (x)^n])^p), x_Symbol] :> \text{Simp}[x^{m+1} \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^p/(m + n \cdot p + 1)), x] + \text{Simp}[n \cdot (p/(c \cdot (m + n \cdot p + 1))) \text{Int}[x^m \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^{p+1}/(1 + \text{ProductLog}[a \cdot x^n])), x], x] /; \text{FreeQ}\{a, c, m, n, p\}, x \ \&\& \ (\text{EqQ}[m, -1] \ || \ (\text{IntegerQ}[p - 1/2] \ \&\& \ \text{ILtQ}[\text{Simplify}[p + (m+1)/n] - 1/2, 0]) \ || \ (!\text{IntegerQ}[p - 1/2] \ \&\& \ \text{ILtQ}[\text{Simplify}[p + (m+1)/n], 0]))$
7174. $\text{Int}[(x)^m \cdot ((c \cdot \text{ProductLog}[a \cdot (x)])^p), x_Symbol] \rightarrow \text{Int}[x^m \cdot ((c \cdot \text{ProductLog}[a \cdot x])^p/(1 + \text{ProductLog}[a \cdot x])), x] + \text{Simp}[1/c \text{Int}[x^m \cdot ((c \cdot \text{ProductLog}[a \cdot x])^{p+1}/(1 + \text{ProductLog}[a \cdot x])), x], x] /; \text{FreeQ}\{a, c, m\}, x]$
7175. $\text{Int}[(x)^m \cdot ((c \cdot \text{ProductLog}[a \cdot (x)^n])^p), x_Symbol] \rightarrow -\text{Subst}[\text{Int}[(c \cdot \text{ProductLog}[a/x^n])^p/x^{m+2}, x], x, 1/x] /; \text{FreeQ}\{a, c, p\}, x \ \&\& \ \text{ILtQ}[n, 0] \ \&\& \ \text{IntegerQ}[m] \ \&\& \ \text{NeQ}[m, -1]$
7176. $\text{Int}[(d + (d \cdot \text{ProductLog}[a + (b \cdot (x))])^{-1}), x_Symbol] \rightarrow \text{Simp}[(a + b \cdot x)/(b \cdot d \cdot \text{ProductLog}[a + b \cdot x]), x] /; \text{FreeQ}\{a, b, d\}, x]$
7177. $\text{Int}[\text{ProductLog}[a + (b \cdot (x))]/((d + (d \cdot \text{ProductLog}[a + (b \cdot (x))])), x_Symbol] \rightarrow \text{Simp}[d \cdot x, x] - \text{Int}[1/(d + d \cdot \text{ProductLog}[a + b \cdot x]), x] /; \text{FreeQ}\{a, b, d\}, x]$
7178. $\text{Int}[(c \cdot \text{ProductLog}[a + (b \cdot (x))])^p/((d + (d \cdot \text{ProductLog}[a + (b \cdot (x))])), x_Symbol] \rightarrow \text{Simp}[c \cdot (a + b \cdot x) \cdot ((c \cdot \text{ProductLog}[$

- $$(a + b*x)^{(p-1)/(b*d)}, x] - \text{Simp}[c*p \text{ Int}[(c*\text{ProductLog}[a + b*x])^{(p-1)/(d + d*\text{ProductLog}[a + b*x])}], x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{GtQ}[p, 0]$$
7179. $\text{Int}[1/(\text{ProductLog}[(a_.) + (b_.)*(x_.)]*((d_.) + (d_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)])), x_Symbol] \rightarrow \text{Simp}[\text{ExpIntegralEi}[\text{ProductLog}[a + b*x]]/(b*d), x] /; \text{FreeQ}\{a, b, d\}, x]$
7180. $\text{Int}[1/(\text{Sqrt}[(c_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)]*((d_.) + (d_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)])), x_Symbol] \rightarrow \text{Simp}[\text{Rt}[\text{Pi}*c, 2]*(\text{Erfi}[\text{Sqrt}[c*\text{ProductLog}[a + b*x]]/\text{Rt}[c, 2]]/(b*c*d)), x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{PosQ}[c]$
7181. $\text{Int}[1/(\text{Sqrt}[(c_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)]*((d_.) + (d_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)])), x_Symbol] \rightarrow \text{Simp}[\text{Rt}[(-\text{Pi})*c, 2]*(\text{Erf}[\text{Sqrt}[c*\text{ProductLog}[a + b*x]]/\text{Rt}[-c, 2]]/(b*c*d)), x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{NegQ}[c]$
7182. $\text{Int}[((c_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)])^{(p_.)}/((d_.) + (d_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[(a + b*x)*((c*\text{ProductLog}[a + b*x])^p/(b*d*(p + 1))), x] - \text{Simp}[1/(c*(p + 1)) \text{ Int}[(c*\text{ProductLog}[a + b*x])^{(p + 1)}/(d + d*\text{ProductLog}[a + b*x]), x], x] /; \text{FreeQ}\{a, b, c, d\}, x] \&\& \text{LtQ}[p, -1]$
7183. $\text{Int}[((c_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)])^{(p_.)}/((d_.) + (d_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[\text{Gamma}[p + 1, -\text{ProductLog}[a + b*x]]*((c*\text{ProductLog}[a + b*x])^p/(b*d*(-\text{ProductLog}[a + b*x])^p)), x] /; \text{FreeQ}\{a, b, c, d, p\}, x]$
7184. $\text{Int}[((e_.) + (f_.)*(x_.))^{(m_.)}/((d_.) + (d_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}[1/b^{(m + 1)} \text{ Subst}[\text{Int}[\text{ExpandIntegrand}[1/(d + d*\text{ProductLog}[x]), (b*e - a*f + f*x)^m, x], x], x, a + b*x], x] /; \text{FreeQ}\{a, b, d, e, f\}, x] \&\& \text{IGtQ}[m, 0]$
7185. $\text{Int}[(((e_.) + (f_.)*(x_.))^{(m_.)*((c_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)])^{(p_.)}/((d_.) + (d_.)*\text{ProductLog}[(a_.) + (b_.)*(x_.)]), x_Symbol] \rightarrow \text{Simp}$

- $$\frac{1}{b^{m+1}} \text{Subst}\left[\text{Int}\left[\text{ExpandIntegrand}\left[\left(c \cdot \text{ProductLog}[x]\right)^p / (d + d \cdot \text{ProductLog}[x])\right], (b \cdot e - a \cdot f + f \cdot x)^m, x\right], x, a + b \cdot x, x\right] /;$$
 $\text{FreeQ}\{a, b, c, d, e, f, p\}, x\} \ \&\& \ \text{IGtQ}[m, 0]$
7186. $\text{Int}\left[\left((d_) + (d_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right)^{-1}, x_Symbol\right] \rightarrow -\text{Subst}\left[\text{Int}\left[1/(x^2 \cdot (d + d \cdot \text{ProductLog}[a/x^n]))\right], x\right], x, 1/x\right] /;$ $\text{FreeQ}\{a, d, x\} \ \&\& \ \text{ILtQ}[n, 0]$
7187. $\text{Int}\left[\left((c_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right)^{(p_)} / \left((d_) + (d_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right), x_Symbol\right] \rightarrow \text{Simp}\left[c \cdot x \cdot \left((c \cdot \text{ProductLog}[a \cdot x^n])^{(p-1)} / d\right), x\right] /;$ $\text{FreeQ}\{a, c, d, n, p\}, x\} \ \&\& \ \text{EqQ}[n \cdot (p-1), -1]$
7188. $\text{Int}\left[\text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right)^{(p_)} / \left((d_) + (d_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right), x_Symbol\right] \rightarrow \text{Simp}\left[a^p \cdot \left(\text{ExpIntegralEi}[-p] \cdot \text{ProductLog}[a \cdot x^n]\right) / (d \cdot n), x\right] /;$ $\text{FreeQ}\{a, d, x\} \ \&\& \ \text{IntegerQ}[p] \ \&\& \ \text{EqQ}[n \cdot p, -1]$
7189. $\text{Int}\left[\left((c_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right)^{(p_)} / \left((d_) + (d_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right), x_Symbol\right] \rightarrow \text{Simp}\left[\left(\text{Rt}[\text{Pi} \cdot c \cdot n, 2] / (d \cdot n \cdot a^{(1/n)} \cdot c^{(1/n)})\right) \cdot \text{Erfi}\left[\text{Sqrt}[c \cdot \text{ProductLog}[a \cdot x^n]] / \text{Rt}[c \cdot n, 2]\right], x\right] /;$ $\text{FreeQ}\{a, c, d\}, x\} \ \&\& \ \text{IntegerQ}[1/n] \ \&\& \ \text{EqQ}[p, 1/2 - 1/n] \ \&\& \ \text{PosQ}[c \cdot n]$
7190. $\text{Int}\left[\left((c_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right)^{(p_)} / \left((d_) + (d_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right), x_Symbol\right] \rightarrow \text{Simp}\left[\left(\text{Rt}[-\text{Pi} \cdot c \cdot n, 2] / (d \cdot n \cdot a^{(1/n)} \cdot c^{(1/n)})\right) \cdot \text{Erf}\left[\text{Sqrt}[c \cdot \text{ProductLog}[a \cdot x^n]] / \text{Rt}[-c \cdot n, 2]\right], x\right] /;$ $\text{FreeQ}\{a, c, d\}, x\} \ \&\& \ \text{IntegerQ}[1/n] \ \&\& \ \text{EqQ}[p, 1/2 - 1/n] \ \&\& \ \text{NegQ}[c \cdot n]$
7191. $\text{Int}\left[\left((c_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right)^{(p_)} / \left((d_) + (d_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right), x_Symbol\right] \rightarrow \text{Simp}\left[c \cdot x \cdot \left((c \cdot \text{ProductLog}[a \cdot x^n])^{(p-1)} / d\right), x\right] - \text{Simp}\left[c \cdot (n \cdot (p-1) + 1) \cdot \text{Int}\left[(c \cdot \text{ProductLog}[a \cdot x^n])^{(p-1)} / (d + d \cdot \text{ProductLog}[a \cdot x^n])\right], x\right], x\right] /;$ $\text{FreeQ}\{a, c, d, x\} \ \&\& \ \text{GtQ}[n, 0] \ \&\& \ \text{GtQ}[n \cdot (p-1) + 1, 0]$
7192. $\text{Int}\left[\left((c_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right)^{(p_)} / \left((d_) + (d_) \cdot \text{ProductLog}[(a_) \cdot (x_)^{(n_)}]\right), x_Symbol\right] \rightarrow \text{Simp}\left[x \cdot \left((c \cdot \text{ProductLog}[a \cdot x^n])^p / (d \cdot (n \cdot p + 1))\right), x\right] - \text{Simp}\left[1 / (c \cdot (n \cdot p + 1)) \cdot \text{Int}\left[(c \cdot \text{ProductLog}[a \cdot x^n])^{(p+1)} / (d + d \cdot \text{ProductLog}[a \cdot x^n])\right], x\right], x\right] /;$ $\text{FreeQ}\{a, c, d, x\} \ \&\& \ \text{GtQ}[n, 0]$

- , 0] && LtQ[n*p + 1, 0]
7193. $\text{Int}[(c \cdot \text{ProductLog}[a \cdot (x)^{n}])^{p} / ((d) + (d) \cdot \text{ProductLog}[a \cdot (x)^{n}]), x_Symbol] \rightarrow -\text{Subst}[\text{Int}[(c \cdot \text{ProductLog}[a/x^{n}])^{p} / (x^{2} \cdot (d + d \cdot \text{ProductLog}[a/x^{n}])), x], x, 1/x] /; \text{FreeQ}\{a, c, d, p, x\} \&\amp; \text{ILtQ}[n, 0]$
7194. $\text{Int}[(x)^{m} / ((d) + (d) \cdot \text{ProductLog}[a \cdot (x)]), x_Symbol] \rightarrow \text{Simp}[x^{m+1} / (d \cdot (m+1) \cdot \text{ProductLog}[a \cdot x]), x] - \text{Simp}[m / (m+1) \cdot \text{Int}[x^{m} / (\text{ProductLog}[a \cdot x] \cdot (d + d \cdot \text{ProductLog}[a \cdot x]))], x], x] /; \text{FreeQ}\{a, d, x\} \&\amp; \text{GtQ}[m, 0]$
7195. $\text{Int}[1 / ((x) \cdot ((d) + (d) \cdot \text{ProductLog}[a \cdot (x)])), x_Symbol] \rightarrow \text{Simp}[\text{Log}[\text{ProductLog}[a \cdot x]] / d, x] /; \text{FreeQ}\{a, d, x\}$
7196. $\text{Int}[(x)^{m} / ((d) + (d) \cdot \text{ProductLog}[a \cdot (x)]), x_Symbol] \rightarrow \text{Simp}[x^{m+1} / (d \cdot (m+1)), x] - \text{Int}[x^{m} \cdot (\text{ProductLog}[a \cdot x] / (d + d \cdot \text{ProductLog}[a \cdot x])), x] /; \text{FreeQ}\{a, d, x\} \&\amp; \text{LtQ}[m, -1]$
7197. $\text{Int}[(x)^{m} / ((d) + (d) \cdot \text{ProductLog}[a \cdot (x)]), x_Symbol] \rightarrow \text{Simp}[x^{m} \cdot (\text{Gamma}[m+1, (-m+1) \cdot \text{ProductLog}[a \cdot x]] / (a \cdot d \cdot (m+1) \cdot E^{(m \cdot \text{ProductLog}[a \cdot x]) \cdot ((-m+1) \cdot \text{ProductLog}[a \cdot x])^{m}})), x] /; \text{FreeQ}\{a, d, m, x\} \&\amp; \text{IntegerQ}[m]$
7198. $\text{Int}[1 / ((x) \cdot ((d) + (d) \cdot \text{ProductLog}[a \cdot (x)^{n}])), x_Symbol] \rightarrow \text{Simp}[\text{Log}[\text{ProductLog}[a \cdot x^{n}]] / (d \cdot n), x] /; \text{FreeQ}\{a, d, n, x\}$
7199. $\text{Int}[(x)^{m} / ((d) + (d) \cdot \text{ProductLog}[a \cdot (x)^{n}]), x_Symbol] \rightarrow -\text{Subst}[\text{Int}[1 / (x^{m+2} \cdot (d + d \cdot \text{ProductLog}[a/x^{n}])), x], x, 1/x] /; \text{FreeQ}\{a, d, x\} \&\amp; \text{IntegerQ}[m] \&\amp; \text{ILtQ}[n, 0] \&\amp; \text{NeQ}[m, -1]$
7200. $\text{Int}[(c \cdot \text{ProductLog}[a \cdot (x)^{n}])^{p} / ((x) \cdot ((d) + (d) \cdot \text{ProductLog}[a \cdot (x)^{n}])), x_Symbol] \rightarrow \text{Simp}[(c \cdot \text{ProductLog}[a \cdot x^{n}])^{p} / (d \cdot n \cdot p), x] /; \text{FreeQ}\{a, c, d, n, p, x\}$

7201. $\text{Int}[(x^m)^{(c)} \cdot \text{ProductLog}[a \cdot x^n]^p] / ((d) + (d) \cdot \text{ProductLog}[a \cdot x^n])$, x_{Symbol} \rightarrow $\text{Simp}[c \cdot x^{m+1} \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^{p-1} / (d \cdot (m+1)))$, x /; $\text{FreeQ}\{a, c, d, m, n, p, x\}$ && $\text{NeQ}[m, -1]$ && $\text{EqQ}[m + n \cdot (p - 1), -1]$
7202. $\text{Int}[(x^m)^{(c)} \cdot \text{ProductLog}[a \cdot x^n]^p] / ((d) + (d) \cdot \text{ProductLog}[a \cdot x^n])$, x_{Symbol} \rightarrow $\text{Simp}[a^p \cdot (\text{ExpIntegralEi}[(-p) \cdot \text{ProductLog}[a \cdot x^n]] / (d \cdot n))$, x /; $\text{FreeQ}\{a, d, m, n, x\}$ && $\text{IntegerQ}[p]$ && $\text{EqQ}[m + n \cdot p, -1]$
7203. $\text{Int}[(x^m)^{(c)} \cdot \text{ProductLog}[a \cdot x^n]^p] / ((d) + (d) \cdot \text{ProductLog}[a \cdot x^n])$, x_{Symbol} \rightarrow $\text{Simp}[a^{(p-1/2)} \cdot c^{(p-1/2)} \cdot \text{Rt}[\text{Pi} \cdot (c / (p - 1/2))$, $2] \cdot (\text{Erf}[\text{Sqrt}[c \cdot \text{ProductLog}[a \cdot x^n]]] / \text{Rt}[c / (p - 1/2)$, $2]) / (d \cdot n)$, x /; $\text{FreeQ}\{a, c, d, m, n, x\}$ && $\text{NeQ}[m, -1]$ && $\text{IntegerQ}[p - 1/2]$ && $\text{EqQ}[m + n \cdot (p - 1/2), -1]$ && $\text{PosQ}[c / (p - 1/2)]$
7204. $\text{Int}[(x^m)^{(c)} \cdot \text{ProductLog}[a \cdot x^n]^p] / ((d) + (d) \cdot \text{ProductLog}[a \cdot x^n])$, x_{Symbol} \rightarrow $\text{Simp}[a^{(p-1/2)} \cdot c^{(p-1/2)} \cdot \text{Rt}[(-\text{Pi}) \cdot (c / (p - 1/2))$, $2] \cdot (\text{Erfi}[\text{Sqrt}[c \cdot \text{ProductLog}[a \cdot x^n]]] / \text{Rt}[-c / (p - 1/2)$, $2]) / (d \cdot n)$, x /; $\text{FreeQ}\{a, c, d, m, n, x\}$ && $\text{NeQ}[m, -1]$ && $\text{IntegerQ}[p - 1/2]$ && $\text{EqQ}[m + n \cdot (p - 1/2), -1]$ && $\text{NegQ}[c / (p - 1/2)]$
7205. $\text{Int}[(x^m)^{(c)} \cdot \text{ProductLog}[a \cdot x^n]^p] / ((d) + (d) \cdot \text{ProductLog}[a \cdot x^n])$, x_{Symbol} \rightarrow $\text{Simp}[c \cdot x^{m+1} \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^{p-1} / (d \cdot (m+1)))$, x - $\text{Simp}[c \cdot ((m + n \cdot (p - 1) + 1) / (m + 1)) \text{Int}[x^m \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^{p-1} / (d + d \cdot \text{ProductLog}[a \cdot x^n]))$, x], x /; $\text{FreeQ}\{a, c, d, m, n, p, x\}$ && $\text{NeQ}[m, -1]$ && $\text{GtQ}[\text{Simplify}[p + (m + 1)/n], 1]$
7206. $\text{Int}[(x^m)^{(c)} \cdot \text{ProductLog}[a \cdot x^n]^p] / ((d) + (d) \cdot \text{ProductLog}[a \cdot x^n])$, x_{Symbol} \rightarrow $\text{Simp}[x^{m+1} \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^p / (d \cdot (m + n \cdot p + 1)))$, x - $\text{Simp}[(m + 1) / (c \cdot (m + n \cdot p + 1)) \text{Int}[x^m \cdot ((c \cdot \text{ProductLog}[a \cdot x^n])^{p+1} / (d + d \cdot \text{ProductLog}[a \cdot x^n]))$, x], x /; $\text{FreeQ}\{a, c, d, m, n, p, x\}$ && $\text{NeQ}[m, -1]$ && $\text{LtQ}[\text{Simplify}[p + (m + 1)/n], 0]$

7207. $\text{Int}[\frac{(x^m)^{(c \cdot \text{ProductLog}[a \cdot x])^p}}{(d + d \cdot \text{ProductLog}[a \cdot x])}, x_{\text{Symbol}}] \rightarrow \text{Simp}[x^m \cdot \text{Gamma}[m + p + 1, (-m + 1) \cdot \text{ProductLog}[a \cdot x]] \cdot ((c \cdot \text{ProductLog}[a \cdot x])^p / (a \cdot d \cdot (m + 1) \cdot E^{(m \cdot \text{ProductLog}[a \cdot x])}) \cdot ((-m + 1) \cdot \text{ProductLog}[a \cdot x])^{(m + p)})], x] /; \text{FreeQ}\{a, c, d, m, p\}, x] \&\& \text{NeQ}[m, -1]$
7208. $\text{Int}[\frac{(x^m)^{(c \cdot \text{ProductLog}[a \cdot x]^n)^p}}{(d + d \cdot \text{ProductLog}[a \cdot x]^n)}, x_{\text{Symbol}}] \rightarrow -\text{Subst}[\text{Int}[(c \cdot \text{ProductLog}[a/x^n])^p / (x^{(m + 2)} \cdot (d + d \cdot \text{ProductLog}[a/x^n]))], x], x, 1/x] /; \text{FreeQ}\{a, c, d, p\}, x] \&\& \text{NeQ}[m, -1] \&\& \text{IntegerQ}[m] \&\& \text{LtQ}[n, 0]$
7209. $\text{Int}[u, x_{\text{Symbol}}] \rightarrow \text{Subst}[\text{Int}[\text{SimplifyIntegrand}[(x + 1) \cdot E^x \cdot \text{SubstFor}[\text{ProductLog}[x], u, x], x], x], x, \text{ProductLog}[x]] /; \text{FunctionOfQ}[\text{ProductLog}[x], u, x]$
7210. $\text{Int}[\text{Derivative}[n][f][x], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Derivative}[n - 1][f][x], x] /; \text{FreeQ}\{f, n\}, x]$
7211. $\text{Int}[(c \cdot F)^{(a + b \cdot x)^p} \cdot \text{Derivative}[n][f][x], x_{\text{Symbol}}] \rightarrow \text{Simp}[(c \cdot F)^{(a + b \cdot x)^p} \cdot \text{Derivative}[n - 1][f][x], x] - \text{Simp}[b \cdot p \cdot \text{Log}[F] \cdot \text{Int}[(c \cdot F)^{(a + b \cdot x)^p} \cdot \text{Derivative}[n - 1][f][x], x], x] /; \text{FreeQ}\{a, b, c, f, F, p\}, x] \&\& \text{IGtQ}[n, 0]$
7212. $\text{Int}[(c \cdot F)^{(a + b \cdot x)^p} \cdot \text{Derivative}[n][f][x], x_{\text{Symbol}}] \rightarrow \text{Simp}[(c \cdot F)^{(a + b \cdot x)^p} \cdot (\text{Derivative}[n][f][x] / (b \cdot p \cdot \text{Log}[F])), x] - \text{Simp}[1 / (b \cdot p \cdot \text{Log}[F]) \cdot \text{Int}[(c \cdot F)^{(a + b \cdot x)^p} \cdot \text{Derivative}[n + 1][f][x], x], x] /; \text{FreeQ}\{a, b, c, f, F, p\}, x] \&\& \text{ILtQ}[n, 0]$
7213. $\text{Int}[\text{Sin}[a + b \cdot x] \cdot \text{Derivative}[n][f][x], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Sin}[a + b \cdot x] \cdot \text{Derivative}[n - 1][f][x], x] - \text{Simp}[b \cdot \text{Int}[\text{Cos}[a + b \cdot x] \cdot \text{Derivative}[n - 1][f][x], x], x] /; \text{FreeQ}\{a, b, f\}, x] \&\& \text{IGtQ}[n, 0]$
7214. $\text{Int}[\text{Cos}[a + b \cdot x] \cdot \text{Derivative}[n][f][x], x_{\text{Symbol}}] \rightarrow \text{Simp}[\text{Cos}[a + b \cdot x] \cdot \text{Derivative}[n - 1][f][x], x] + \text{Simp}[b \cdot \text{Int}[\text{Sin}[a + b \cdot x] \cdot \text{Derivative}[n - 1][f][x], x], x] /; \text{FreeQ}\{a, b, f\}, x] \&\& \text{IGtQ}[n, 0]$

7215. `Int[Sin[(a_.) + (b_.)*(x_)]*Derivative[n_][f_][x_], x_Symbol] := Simp[
 (-Cos[a + b*x])*(Derivative[n][f][x]/b), x] + Simp[1/b Int[Cos[a + b
 *x]*Derivative[n + 1][f][x], x], x] /; FreeQ[{a, b, f}, x] && ILtQ[n,
 0]`
7216. `Int[Cos[(a_.) + (b_.)*(x_)]*Derivative[n_][f_][x_], x_Symbol] := Simp[
 Sin[a + b*x]*(Derivative[n][f][x]/b), x] - Simp[1/b Int[Sin[a + b*x]
 *Derivative[n + 1][f][x], x], x] /; FreeQ[{a, b, f}, x] && ILtQ[n, 0]`
7217. `Int[(u_)*Derivative[n_][f_][x_], x_Symbol] := Subst[Int[SimplifyIntegr
 and[SubstFor[Derivative[n - 1][f][x], u, x], x], x, Derivative[n -
 1][f][x]] /; FreeQ[{f, n}, x] && FunctionOfQ[Derivative[n - 1][f][x],
 u, x]`
7218. `Int[(u_)*((a_.)*(g_)[x_]*Derivative[1][f_][x_] + (a_.)*(f_)[x_]*Deriva
 tive[1][g_][x_]), x_Symbol] := Simp[a Subst[Int[SimplifyIntegrand[Su
 bstFor[f[x]*g[x], u, x], x], x, f[x]*g[x]], x] /; FreeQ[{a, f, g},
 x] && FunctionOfQ[f[x]*g[x], u, x]`
7219. `Int[(u_)*((a_.)*(g_)[x_]*Derivative[m_][f_][x_] + (a_.)*Derivative[1][
 g_][x_]*Derivative[m1_][f_][x_]), x_Symbol] := Simp[a Subst[Int[Simp
 lifyIntegrand[SubstFor[Derivative[m - 1][f][x]*g[x], u, x], x], x,
 Derivative[m - 1][f][x]*g[x]], x] /; FreeQ[{a, f, g, m}, x] && EqQ[m1
 , m - 1] && FunctionOfQ[Derivative[m - 1][f][x]*g[x], u, x]`
7220. `Int[(u_)*((a_.)*Derivative[m1_][f_][x_]*Derivative[n_][g_][x_] + (a_.)
 *Derivative[m_][f_][x_]*Derivative[n1_][g_][x_]), x_Symbol] := Simp[a
 Subst[Int[SimplifyIntegrand[SubstFor[Derivative[m - 1][f][x]*Derivat
 ive[n - 1][g][x], u, x], x], x, Derivative[m - 1][f][x]*Derivative
 [n - 1][g][x]], x] /; FreeQ[{a, f, g, m, n}, x] && EqQ[m1, m - 1] && E
 qQ[n1, n - 1] && FunctionOfQ[Derivative[m - 1][f][x]*Derivative[n - 1]
 [g][x], u, x]`
7221. `Int[(u_)*(f_)[x_]^(p_.)*((a_.)*(g_)[x_]*Derivative[1][f_][x_] + (b_.)*
 (f_)[x_]*Derivative[1][g_][x_]), x_Symbol] := Simp[b Subst[Int[Simpl
 ifyIntegrand[SubstFor[f[x]^(p + 1)*g[x], u, x], x], x, f[x]^(p + 1
)*g[x]], x] /; FreeQ[{a, b, f, g, p}, x] && EqQ[a, b*(p + 1)] && Funct`

ionOfQ[f[x]^(p + 1)*g[x], u, x]

7222. `Int[(u_)*Derivative[m1_][f_][x_]^(p_.)*((a_.)*(g_)[x_]*Derivative[m_][f_][x_] + (b_.)*Derivative[1][g_][x_]*Derivative[m1_][f_][x_]), x_Symbol] := Simp[b Subst[Int[SimplifyIntegrand[SubstFor[Derivative[m - 1][f][x]^(p + 1)*g[x], u, x], x], x], x, Derivative[m - 1][f][x]^(p + 1)*g[x]], x] /; FreeQ[{a, b, f, g, m, p}, x] && EqQ[m1, m - 1] && EqQ[a, b*(p + 1)] && FunctionOfQ[Derivative[m - 1][f][x]^(p + 1)*g[x], u, x]`
7223. `Int[(u_)*(g_)[x_]^(q_.)*((a_.)*(g_)[x_]*Derivative[m_][f_][x_] + (b_.)*Derivative[1][g_][x_]*Derivative[m1_][f_][x_]), x_Symbol] := Simp[a Subst[Int[SimplifyIntegrand[SubstFor[Derivative[m - 1][f][x]*g[x]^(q + 1), u, x], x], x], x, Derivative[m - 1][f][x]*g[x]^(q + 1)], x] /; FreeQ[{a, b, f, g, m, q}, x] && EqQ[m1, m - 1] && EqQ[a*(q + 1), b] && FunctionOfQ[Derivative[m - 1][f][x]*g[x]^(q + 1), u, x]`
7224. `Int[(u_)*Derivative[m1_][f_][x_]^(p_.)*((b_.)*Derivative[m1_][f_][x_]*Derivative[n_][g_][x_] + (a_.)*Derivative[m_][f_][x_]*Derivative[n1_][g_][x_]), x_Symbol] := Simp[b Subst[Int[SimplifyIntegrand[SubstFor[Derivative[m - 1][f][x]^(p + 1)*Derivative[n - 1][g][x], u, x], x], x], x, Derivative[m - 1][f][x]^(p + 1)*Derivative[n - 1][g][x]], x] /; FreeQ[{a, b, f, g, m, n, p}, x] && EqQ[m1, m - 1] && EqQ[n1, n - 1] && EqQ[a, b*(p + 1)] && FunctionOfQ[Derivative[m - 1][f][x]^(p + 1)*Derivative[n - 1][g][x], u, x]`
7225. `Int[(u_)*(f_)[x_]^(p_.)*(g_)[x_]^(q_.)*((a_.)*(g_)[x_]*Derivative[1][f_][x_] + (b_.)*(f_)[x_]*Derivative[1][g_][x_]), x_Symbol] := Simp[a/(p + 1) Subst[Int[SimplifyIntegrand[SubstFor[f[x]^(p + 1)*g[x]^(q + 1), u, x], x], x], x, f[x]^(p + 1)*g[x]^(q + 1)], x] /; FreeQ[{a, b, f, g, p, q}, x] && EqQ[a*(q + 1), b*(p + 1)] && FunctionOfQ[f[x]^(p + 1)*g[x]^(q + 1), u, x]`
7226. `Int[(u_)*(g_)[x_]^(q_.)*Derivative[m1_][f_][x_]^(p_.)*((a_.)*(g_)[x_]*Derivative[m_][f_][x_] + (b_.)*Derivative[1][g_][x_]*Derivative[m1_][f_][x_]), x_Symbol] := Simp[a/(p + 1) Subst[Int[SimplifyIntegrand[SubstFor[Derivative[m - 1][f][x]^(p + 1)*g[x]^(q + 1), u, x], x], x], x, Derivative[m - 1][f][x]^(p + 1)*g[x]^(q + 1)], x] /; FreeQ[{a, b, f, g`

- , m, p, q}, x] && EqQ[m1, m - 1] && EqQ[a*(q + 1), b*(p + 1)] && FunctionOfQ[Derivative[m - 1][f][x]^(p + 1)*g[x]^(q + 1), u, x]
7227. Int[(u_)*Derivative[m1_][f_][x_]^(p_)*Derivative[n1_][g_][x_]^(q_)*(b_)*Derivative[m1_][f_][x_] + (a_)*Derivative[m_][f_][x_] * Derivative[n1_][g_][x_]), x_Symbol] :> Simp[a/(p + 1) Subst[Int[SimplifyIntegrand[SubstFor[Derivative[m - 1][f][x]^(p + 1)*Derivative[n - 1][g][x]^(q + 1), u, x], x], x, Derivative[m - 1][f][x]^(p + 1)*Derivative[n - 1][g][x]^(q + 1)], x] /; FreeQ[{a, b, f, g, m, n, p, q}, x] && EqQ[m1, m - 1] && EqQ[n1, n - 1] && EqQ[a*(q + 1), b*(p + 1)] && FunctionOfQ[Derivative[m - 1][f][x]^(p + 1)*Derivative[n - 1][g][x]^(q + 1), u, x]
7228. Int[(g_)[x_]*Derivative[1][f_][x_] + (f_)[x_]*Derivative[1][g_][x_], x_Symbol] :> Simp[f[x]*g[x], x] /; FreeQ[{f, g}, x]
7229. Int[((g_)[x_]*Derivative[1][f_][x_] - (f_)[x_]*Derivative[1][g_][x_]) / (g_)[x_]^2, x_Symbol] :> Simp[f[x]/g[x], x] /; FreeQ[{f, g}, x]
7230. Int[((g_)[x_]*Derivative[1][f_][x_] - (f_)[x_]*Derivative[1][g_][x_]) / ((f_)[x_]*(g_)[x_]), x_Symbol] :> Simp[Log[f[x]/g[x]], x] /; FreeQ[{f, g}, x]
7231. Int[((a_) + (b_)*(F_)[((c_)*Sqrt[(d_) + (e_)*(x_)]) / Sqrt[(f_) + (g_)*(x_)])^(n_)] / ((A_) + (B_)*(x_) + (C_)*(x_)^2), x_Symbol] :> Simp[2*e*(g/(C*(e*f - d*g))) Subst[Int[(a + b*F[c*x])^n/x, x], x, Sqrt[d + e*x]/Sqrt[f + g*x]], x] /; FreeQ[{a, b, c, d, e, f, g, A, B, C, F}, x] && EqQ[C*d*f - A*e*g, 0] && EqQ[B*e*g - C*(e*f + d*g), 0] && IGtQ[n, 0]
7232. Int[((a_) + (b_)*(F_)[((c_)*Sqrt[(d_) + (e_)*(x_)]) / Sqrt[(f_) + (g_)*(x_)])^(n_)] / ((A_) + (C_)*(x_)^2), x_Symbol] :> Simp[2*e*(g/(C*(e*f - d*g))) Subst[Int[(a + b*F[c*x])^n/x, x], x, Sqrt[d + e*x]/Sqrt[f + g*x]], x] /; FreeQ[{a, b, c, d, e, f, g, A, C, F}, x] && EqQ[C*d*f - A*e*g, 0] && EqQ[e*f + d*g, 0] && IGtQ[n, 0]

7233. $\text{Int}[\frac{(a_.) + (b_.) \cdot (F_.) \cdot ((c_.) \cdot \sqrt{(d_.) + (e_.) \cdot (x_.)})}{\sqrt{(f_.) + (g_.) \cdot (x_.)}}]^{(n_.)} / ((A_.) + (B_.) \cdot (x_.) + (C_.) \cdot (x_.)^2), x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot F[(c \cdot \sqrt{d + e \cdot x})] / \sqrt{f + g \cdot x})^n / (A + B \cdot x + C \cdot x^2), x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, B, C, F, n\}, x] \&\& \text{EqQ}[C \cdot d \cdot f - A \cdot e \cdot g, 0] \&\& \text{EqQ}[B \cdot e \cdot g - C \cdot (e \cdot f + d \cdot g), 0] \&\& !\text{IGtQ}[n, 0]$
7234. $\text{Int}[\frac{(a_.) + (b_.) \cdot (F_.) \cdot ((c_.) \cdot \sqrt{(d_.) + (e_.) \cdot (x_.)})}{\sqrt{(f_.) + (g_.) \cdot (x_.)}}]^{(n_.)} / ((A_.) + (C_.) \cdot (x_.)^2), x_Symbol] \rightarrow \text{Unintegrable}[(a + b \cdot F[(c \cdot \sqrt{d + e \cdot x})] / \sqrt{f + g \cdot x})^n / (A + C \cdot x^2), x] /; \text{FreeQ}\{a, b, c, d, e, f, g, A, C, F, n\}, x] \&\& \text{EqQ}[C \cdot d \cdot f - A \cdot e \cdot g, 0] \&\& \text{EqQ}[e \cdot f + d \cdot g, 0] \&\& !\text{IGtQ}[n, 0]$
7235. $\text{Int}[(u_.) / (y_.), x_Symbol] \rightarrow \text{With}\{q = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[q \cdot \text{Log}[\text{RemoveContent}[y, x]], x] /; !\text{FalseQ}[q]$
7236. $\text{Int}[(u_.) / ((w_.) \cdot (y_)), x_Symbol] \rightarrow \text{With}\{q = \text{DerivativeDivides}[y \cdot w, u, x]\}, \text{Simp}[q \cdot \text{Log}[\text{RemoveContent}[y \cdot w, x]], x] /; !\text{FalseQ}[q]$
7237. $\text{Int}[(u_.) \cdot (y_.)^{(m_.)}, x_Symbol] \rightarrow \text{With}\{q = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[q \cdot (y^{(m+1)} / (m+1)), x] /; !\text{FalseQ}[q] /; \text{FreeQ}[m, x] \&\& \text{NeQ}[m, -1]$
7238. $\text{Int}[(u_.) \cdot (y_.)^{(m_.)} \cdot (z_.)^{(n_.)}, x_Symbol] \rightarrow \text{With}\{q = \text{DerivativeDivides}[y \cdot z, u \cdot z^{(n-m)}, x]\}, \text{Simp}[q \cdot y^{(m+1)} \cdot (z^{(m+1)} / (m+1)), x] /; !\text{FalseQ}[q] /; \text{FreeQ}\{m, n\}, x] \&\& \text{NeQ}[m, -1]$
7239. $\text{Int}[u_, x_Symbol] \rightarrow \text{With}\{v = \text{SimplifyIntegrand}[u, x]\}, \text{Int}[v, x] /; \text{SimplerIntegrandQ}[v, u, x]$
7240. $\text{Int}[(u_.) \cdot ((e_.) \cdot \sqrt{(a_.) + (b_.) \cdot (x_.)^{(n_.)}}) + (f_.) \cdot \sqrt{(c_.) + (d_.) \cdot (x_.)^{(n_.)}}]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(a \cdot e^2 - c \cdot f^2)^m \text{Int}[\text{ExpandIntegrand}[u / (e \cdot \sqrt{a + b \cdot x^n} - f \cdot \sqrt{c + d \cdot x^n})^m, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x] \&\& \text{ILtQ}[m, 0] \&\& \text{EqQ}[b \cdot e^2 - d \cdot f^2, 0]$

7241. $\text{Int}[(u_.) * ((e_.) * \text{Sqrt}[a_.) + (b_.) * (x_.)^{(n_.)}] + (f_.) * \text{Sqrt}[c_.) + (d_.) * (x_.)^{(n_.)}]^{(m_.)}, x_Symbol] \rightarrow \text{Simp}[(b * e^2 - d * f^2)^m \text{Int}[\text{ExpandIntegrand}[(u * x^{(m * n)}) / (e * \text{Sqrt}[a + b * x^n] - f * \text{Sqrt}[c + d * x^n])^m, x], x], x] /; \text{FreeQ}\{a, b, c, d, e, f, n\}, x\} \&\& \text{ILtQ}[m, 0] \&\& \text{EqQ}[a * e^2 - c * f^2, 0]$
7242. $\text{Int}[(u_.)^{(m_.)} * ((a_.) * (u_.)^{(n_.)} + (v_.)^{(p_.)} * (w_)), x_Symbol] \rightarrow \text{Int}[u^{(m + n * p)} * (a + v / u^n)^{p * w}, x] /; \text{FreeQ}\{a, m, n\}, x\} \&\& \text{IntegerQ}[p] \&\& !\text{GtQ}[n, 0] \&\& !\text{FreeQ}[v, x]$
7243. $\text{Int}[(u_.) * ((c_.) + (d_.) * (v_.)^{(n_.)}) * ((a_.) + (b_.) * (y_.)^{(m_.)}), x_Symbol] \rightarrow \text{With}\{q = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[q \text{Subst}[\text{Int}[(a + b * x)^m * (c + d * x)^n, x], x, y], x] /; !\text{FalseQ}[q] /; \text{FreeQ}\{a, b, c, d, m, n\}, x\} \&\& \text{EqQ}[v, y]$
7244. $\text{Int}[(u_.) * ((c_.) + (d_.) * (v_.)^{(n_.)}) * ((e_.) + (f_.) * (w_.)^{(p_.)}) * ((a_.) + (b_.) * (y_.)^{(m_.)}), x_Symbol] \rightarrow \text{With}\{q = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[q \text{Subst}[\text{Int}[(a + b * x)^m * (c + d * x)^n * (e + f * x)^p, x], x, y], x] /; !\text{FalseQ}[q] /; \text{FreeQ}\{a, b, c, d, e, f, m, n, p\}, x\} \&\& \text{EqQ}[v, y] \&\& \text{EqQ}[w, y]$
7245. $\text{Int}[(u_.) * ((c_.) + (d_.) * (v_.)^{(n_.)}) * ((e_.) + (f_.) * (w_.)^{(p_.)}) * ((a_.) + (b_.) * (y_.)^{(m_.)}) * ((g_.) + (h_.) * (z_.)^{(q_.)}), x_Symbol] \rightarrow \text{With}\{r = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[r \text{Subst}[\text{Int}[(a + b * x)^m * (c + d * x)^n * (e + f * x)^p * (g + h * x)^q, x], x, y], x] /; !\text{FalseQ}[r] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m, n, p, q\}, x\} \&\& \text{EqQ}[v, y] \&\& \text{EqQ}[w, y] \&\& \text{EqQ}[z, y]$
7246. $\text{Int}[(u_.) * ((a_.) + (b_.) * (y_.)^{(n_.)}), x_Symbol] \rightarrow \text{With}\{q = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[a \text{Int}[u, x], x] + \text{Simp}[b * q \text{Subst}[\text{Int}[x^n, x], x, y], x] /; !\text{FalseQ}[q] /; \text{FreeQ}\{a, b, n\}, x]$
7247. $\text{Int}[(u_.) * ((a_.) + (b_.) * (y_.)^{(n_.)})^{(p_.)}, x_Symbol] \rightarrow \text{With}\{q = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[q \text{Subst}[\text{Int}[(a + b * x^n)^p, x], x, y], x] /; !\text{FalseQ}[q] /; \text{FreeQ}\{a, b, n, p\}, x]$

7248. `Int[(u_.)*(v_)^(m_.)*((a_.) + (b_.)*(y_)^(n_))^(p_.), x_Symbol] := Module[{q, r}, Simp[q*r Subst[Int[x^m*(a + b*x^n)^p, x], x, y], x] /; !FalseQ[r = Divides[y^m, v^m, x]] && !FalseQ[q = DerivativeDivides[y, u, x]]] /; FreeQ[{a, b, m, n, p}, x]`
7249. `Int[(u_.)*((a_.) + (c_.)*(v_)^(n2_.) + (b_.)*(y_)^(n_))^(p_), x_Symbol] := With[{q = DerivativeDivides[y, u, x]}, Simp[q Subst[Int[(a + b*x^n + c*x^(2*n))^p, x], x, y], x] /; !FalseQ[q]] /; FreeQ[{a, b, c, n, p}, x] && EqQ[n2, 2*n] && EqQ[v, y]`
7250. `Int[(u_.)*((a_.) + (b_.)*(v_)^(n_) + (c_.)*(w_)^(n2_.))^(p_.)*((A_) + (B_.)*(y_)^(n_)), x_Symbol] := With[{q = DerivativeDivides[y, u, x]}, Simp[q Subst[Int[(A + B*x^n)*(a + b*x^n + c*x^(2*n))^p, x], x, y], x] /; !FalseQ[q]] /; FreeQ[{a, b, c, A, B, n, p}, x] && EqQ[n2, 2*n] && EqQ[v, y] && EqQ[w, y]`
7251. `Int[(u_.)*((a_.) + (c_.)*(w_)^(n2_.))^(p_.)*((A_) + (B_.)*(y_)^(n_)), x_Symbol] := With[{q = DerivativeDivides[y, u, x]}, Simp[q Subst[Int[(A + B*x^n)*(a + c*x^(2*n))^p, x], x, y], x] /; !FalseQ[q]] /; FreeQ[{a, c, A, B, n, p}, x] && EqQ[n2, 2*n] && EqQ[w, y]`
7252. `Int[(u_.)*(v_)^(m_.)*((a_.) + (c_.)*(w_)^(n2_.) + (b_.)*(y_)^(n_))^(p_.), x_Symbol] := Module[{q, r}, Simp[q*r Subst[Int[x^m*(a + b*x^n + c*x^(2*n))^p, x], x, y], x] /; !FalseQ[r = Divides[y^m, v^m, x]] && !FalseQ[q = DerivativeDivides[y, u, x]]] /; FreeQ[{a, b, c, m, n, p}, x] && EqQ[n2, 2*n] && EqQ[w, y]`
7253. `Int[(u_.)*((a_.) + (b_.)*(v_)^(n_) + (c_.)*(w_)^(n2_.))^(p_.)*((A_) + (B_.)*(y_)^(n_))*(z_)^(m_.), x_Symbol] := Module[{q, r}, Simp[q*r Subst[Int[x^m*(A + B*x^n)*(a + b*x^n + c*x^(2*n))^p, x], x, y], x] /; !FalseQ[r = Divides[y^m, z^m, x]] && !FalseQ[q = DerivativeDivides[y, u, x]]] /; FreeQ[{a, b, c, A, B, m, n, p}, x] && EqQ[n2, 2*n] && EqQ[v, y] && EqQ[w, y]`
7254. `Int[(u_.)*((a_.) + (c_.)*(w_)^(n2_.))^(p_.)*((A_) + (B_.)*(y_)^(n_))*(z_)^(m_.), x_Symbol] := Module[{q, r}, Simp[q*r Subst[Int[x^m*(A + B*x^n)*(a + c*x^(2*n))^p, x], x, y], x] /; !FalseQ[r = Divides[y^m, z^`

- $m, x]$ && !FalseQ[q = DerivativeDivides[y, u, x]] /; FreeQ[{a, c, A, B, m, n, p}, x] && EqQ[n2, 2*n] && EqQ[w, y]
7255. $\text{Int}[(u_)*((c_)+(d_)*(v_)^{(n_)})^{(p_)*((a_)+(b_)*(y_)^{(n_)})^{(m_)}], x_Symbol] \rightarrow \text{With}[\{q = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[q \text{ Subst}[\text{Int}[(a + b*x^n)^m*(c + d*x^n)^p, x], x, y], x] /; \text{!FalseQ}[q]] /; \text{FreeQ}[\{a, b, c, d, m, n, p\}, x] \&\& \text{EqQ}[v, y]$
7256. $\text{Int}[(u_)*((c_)+(d_)*(v_)^{(n_)})^{(p_)*((e_)+(f_)*(w_)^{(n_)})^{(q_)*((a_)+(b_)*(y_)^{(n_)})^{(m_)}], x_Symbol] \rightarrow \text{With}[\{r = \text{DerivativeDivides}[y, u, x]\}, \text{Simp}[r \text{ Subst}[\text{Int}[(a + b*x^n)^m*(c + d*x^n)^p*(e + f*x^n)^q, x], x, y], x] /; \text{!FalseQ}[r]] /; \text{FreeQ}[\{a, b, c, d, e, f, m, n, p, q\}, x] \&\& \text{EqQ}[v, y] \&\& \text{EqQ}[w, y]$
7257. $\text{Int}[(F_)^{(v_)*}(u_), x_Symbol] \rightarrow \text{With}[\{q = \text{DerivativeDivides}[v, u, x]\}, \text{Simp}[q*(F^v/\text{Log}[F]), x] /; \text{!FalseQ}[q]] /; \text{FreeQ}[F, x]$
7258. $\text{Int}[(F_)^{(v_)*}(u_)*(w_)^{(m_)}], x_Symbol] \rightarrow \text{With}[\{q = \text{DerivativeDivides}[v, u, x]\}, \text{Simp}[q \text{ Subst}[\text{Int}[x^m*F^x, x], x, v], x] /; \text{!FalseQ}[q]] /; \text{FreeQ}[\{F, m\}, x] \&\& \text{EqQ}[w, v]$
7259. $\text{Int}[(u_)*((a_)+(b_)*(v_)^{(p_)*}(w_)^{(p_)})^{(m_)}], x_Symbol] \rightarrow \text{With}[\{c = \text{Simplify}[u/(w*D[v, x] + v*D[w, x])]\}, \text{Simp}[c \text{ Subst}[\text{Int}[(a + b*x^p)^m, x], x, v*w], x] /; \text{FreeQ}[c, x]] /; \text{FreeQ}[\{a, b, m, p\}, x] \&\& \text{IntegerQ}[p]$
7260. $\text{Int}[(u_)*(v_)^{(r_)*}((a_)+(b_)*(v_)^{(p_)*}(w_)^{(q_)})^{(m_)}], x_Symbol] \rightarrow \text{With}[\{c = \text{Simplify}[u/(p*w*D[v, x] + q*v*D[w, x])]\}, \text{Simp}[c*(p/(r + 1)) \text{ Subst}[\text{Int}[(a + b*x^{(p/(r + 1))})^m, x], x, v^{(r + 1)*w}], x] /; \text{FreeQ}[c, x]] /; \text{FreeQ}[\{a, b, m, p, q, r\}, x] \&\& \text{EqQ}[p, q*(r + 1)] \&\& \text{NeQ}[r, -1] \&\& \text{IntegerQ}[p/(r + 1)]$
7261. $\text{Int}[(u_)*(v_)^{(r_)*}(w_)^{(s_)*}((a_)+(b_)*(v_)^{(p_)*}(w_)^{(q_)})^{(m_)}], x_Symbol] \rightarrow \text{With}[\{c = \text{Simplify}[u/(p*w*D[v, x] + q*v*D[w, x])]\}, \text{Simp}[c*(p/(r + 1)) \text{ Subst}[\text{Int}[(a + b*x^{(p/(r + 1))})^m, x], x, v^{(r + 1)*w^{(s + 1)}}], x] /; \text{FreeQ}[c, x]] /; \text{FreeQ}[\{a, b, m, p, q, r, s\}, x] \&$

- $\& \text{EqQ}[p*(s + 1), q*(r + 1)] \&\& \text{NeQ}[r, -1] \&\& \text{IntegerQ}[p/(r + 1)]$
7262. $\text{Int}[(u_*)*((a_*)*(v_)^{(p_.)} + (b_*)*(w_)^{(q_.)})^{(m_.)}, x_Symbol] \text{ :> With}[\{c = \text{Simplify}[u/(p*w*D[v, x] - q*v*D[w, x])]\}, \text{Simp}[c*p \text{ Subst}[\text{Int}[(b + a*x^p)^m, x], x, v*w^{(m*q + 1)}, x] \text{ /; FreeQ}[c, x] \text{ /; FreeQ}[\{a, b, m, p, q\}, x] \&\& \text{EqQ}[p + q*(m*p + 1), 0] \&\& \text{IntegerQ}[p] \&\& \text{IntegerQ}[m]$
7263. $\text{Int}[(u_*)*(v_)^{(r_.)}*((a_*)*(v_)^{(p_.)} + (b_*)*(w_)^{(q_.)})^{(m_.)}, x_Symbol] \text{ :> With}[\{c = \text{Simplify}[u/(p*w*D[v, x] - q*v*D[w, x])]\}, \text{Simp}[(-c)*q \text{ Subst}[\text{Int}[(a + b*x^q)^m, x], x, v^{(m*p + r + 1)}*w], x] \text{ /; FreeQ}[c, x] \text{ /; FreeQ}[\{a, b, m, p, q, r\}, x] \&\& \text{EqQ}[p + q*(m*p + r + 1), 0] \&\& \text{IntegerQ}[q] \&\& \text{IntegerQ}[m]$
7264. $\text{Int}[(u_*)*(w_)^{(s_.)}*((a_*)*(v_)^{(p_.)} + (b_*)*(w_)^{(q_.)})^{(m_.)}, x_Symbol] \text{ :> With}[\{c = \text{Simplify}[u/(p*w*D[v, x] - q*v*D[w, x])]\}, \text{Simp}[(-c)*(q/(s + 1)) \text{ Subst}[\text{Int}[(a + b*x^{(q/(s + 1))})^m, x], x, v^{(m*p + 1)}*w^{(s + 1)}, x] \text{ /; FreeQ}[c, x] \text{ /; FreeQ}[\{a, b, m, p, q, s\}, x] \&\& \text{EqQ}[p*(s + 1) + q*(m*p + 1), 0] \&\& \text{NeQ}[s, -1] \&\& \text{IntegerQ}[q/(s + 1)] \&\& \text{IntegerQ}[m]$
7265. $\text{Int}[(u_*)*(v_)^{(r_.)}*(w_)^{(s_.)}*((a_*)*(v_)^{(p_.)} + (b_*)*(w_)^{(q_.)})^{(m_.)}, x_Symbol] \text{ :> With}[\{c = \text{Simplify}[u/(p*w*D[v, x] - q*v*D[w, x])]\}, \text{Simp}[(-c)*(q/(s + 1)) \text{ Subst}[\text{Int}[(a + b*x^{(q/(s + 1))})^m, x], x, v^{(m*p + r + 1)}*w^{(s + 1)}, x] \text{ /; FreeQ}[c, x] \text{ /; FreeQ}[\{a, b, m, p, q, r, s\}, x] \&\& \text{EqQ}[p*(s + 1) + q*(m*p + r + 1), 0] \&\& \text{NeQ}[s, -1] \&\& \text{IntegerQ}[q/(s + 1)] \&\& \text{IntegerQ}[m]$
7266. $\text{Int}[(u_*)*(x_)^{(m_.)}, x_Symbol] \text{ :> Simp}[1/(m + 1) \text{ Subst}[\text{Int}[\text{SubstFor}[x^{(m + 1)}, u, x], x, x^{(m + 1)}], x] \text{ /; FreeQ}[m, x] \&\& \text{NeQ}[m, -1] \& \text{FunctionOfQ}[x^{(m + 1)}, u, x]$
7267. $\text{Int}[u_, x_Symbol] \text{ :> With}[\{lst = \text{SubstForFractionalPowerOfLinear}[u, x]\}, \text{Simp}[lst[[2]]*lst[[4]] \text{ Subst}[\text{Int}[lst[[1]], x], x, lst[[3]]^{(1/lst[[2])}], x] \text{ /; !FalseQ}[lst] \&\& \text{SubstForFractionalPowerQ}[u, lst[[3]], x]]$

7268. `Int[u_, x_Symbol] := With[{lst = SubstForFractionalPowerOfQuotientOfLi
nearns[u, x]}, Simp[lst[[2]]*lst[[4]] Subst[Int[lst[[1]], x], x, lst[[
3]]^(1/lst[[2]])], x] /; !FalseQ[lst]]`
7269. `Int[(u_.)*((a_.)*(v_)^(m_.)*(w_)^(n_.)*(z_)^(q_.))^(p_), x_Symbol] :=
Simp[a^IntPart[p]*((a*v^m*w^n*z^q)^FracPart[p]/(v^(m*FracPart[p])*w^(n
*FracPart[p])*z^(q*FracPart[p]))) Int[u*v^(m*p)*w^(n*p)*z^(p*q), x],
x] /; FreeQ[{a, m, n, p, q}, x] && !IntegerQ[p] && !FreeQ[v, x] &&
!FreeQ[w, x] && !FreeQ[z, x]`
7270. `Int[(u_.)*((a_.)*(v_)^(m_.)*(w_)^(n_.))^(p_), x_Symbol] := Simp[a^IntP
art[p]*((a*v^m*w^n)^FracPart[p]/(v^(m*FracPart[p])*w^(n*FracPart[p])))
Int[u*v^(m*p)*w^(n*p), x], x] /; FreeQ[{a, m, n, p}, x] && !Intege
rQ[p] && !FreeQ[v, x] && !FreeQ[w, x]`
7271. `Int[(u_.)*((a_.)*(v_)^(m_.))^(p_), x_Symbol] := Simp[a^IntPart[p]*((a*
v^m)^FracPart[p]/v^(m*FracPart[p])) Int[u*v^(m*p), x], x] /; FreeQ[{
a, m, p}, x] && !IntegerQ[p] && !FreeQ[v, x] && !(EqQ[a, 1] && EqQ[
m, 1]) && !(EqQ[v, x] && EqQ[m, 1])`
7272. `Int[(u_.)*((a_.) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] := Simp[b^IntPart[
p]*((a + b*x^n)^FracPart[p]/(x^(n*FracPart[p])*(1 + a*(1/(x^n*b))))^Fra
cPart[p]) Int[u*x^(n*p)*(1 + a*(1/(x^n*b)))^p, x], x] /; FreeQ[{a,
b, p}, x] && !IntegerQ[p] && ILtQ[n, 0] && !RationalFunctionQ[u, x]
&& IntegerQ[p + 1/2]`
7273. `Int[(u_.)*((a_.) + (b_.)*(v_)^(n_.))^(p_), x_Symbol] := Simp[(a + b*v^n
)^FracPart[p]/(v^(n*FracPart[p])*(b + a/v^n)^FracPart[p]) Int[u*v^(n
p)(b + a/v^n)^p, x], x] /; FreeQ[{a, b, p}, x] && !IntegerQ[p] && I
LtQ[n, 0] && BinomialQ[v, x] && !LinearQ[v, x]`
7274. `Int[(u_.)*((a_.) + (b_.)*(v_)^(n_.)*(x_)^(m_.))^(p_), x_Symbol] := Simp
[(a + b*x^m*v^n)^FracPart[p]/(v^(n*FracPart[p])*(b*x^m + a/v^n)^FracPa
rt[p]) Int[u*v^(n*p)*(b*x^m + a/v^n)^p, x], x] /; FreeQ[{a, b, m, p}
, x] && !IntegerQ[p] && ILtQ[n, 0] && BinomialQ[v, x]`

7275. $\text{Int}[(u_.)*((a_.)*(x_.)^{(r_.)} + (b_.)*(x_.)^{(s_.)})^{(m_.)}, x_Symbol] \rightarrow \text{With}[\{v = (a*x^r + b*x^s)^{\text{FracPart}[m]} / (x^{(r*\text{FracPart}[m])}*(a + b*x^{(s - r)})^{\text{FracPart}[m]})\}, \text{Simp}[v \text{ Int}[u*x^{(m*r)}*(a + b*x^{(s - r)})^m, x], x] /; \text{NeQ}[\text{Simplify}[v], 1]] /; \text{FreeQ}[\{a, b, m, r, s\}, x] \&\& \text{!IntegerQ}[m] \&\& \text{PosQ}[s - r]$
7276. $\text{Int}[(u_)/((a_.) + (b_.)*(x_.)^{(n_.)}), x_Symbol] \rightarrow \text{With}[\{v = \text{RationalFunctionExpand}[u/(a + b*x^n), x]\}, \text{Int}[v, x] /; \text{SumQ}[v]] /; \text{FreeQ}[\{a, b, x\} \&\& \text{IGtQ}[n, 0]$
7277. $\text{Int}[(u_)*((a_.) + (b_.)*(x_.)^{(n_.)} + (c_.)*(x_.)^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[1/(4^p*c^p) \text{ Int}[u*(b + 2*c*x^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{IntegerQ}[p] \&\& \text{!AlgebraicFunctionQ}[u, x]$
7278. $\text{Int}[(u_)*((a_.) + (b_.)*(x_.)^{(n_.)} + (c_.)*(x_.)^{(n2_.)})^{(p_.)}, x_Symbol] \rightarrow \text{Simp}[(a + b*x^n + c*x^{(2*n)})^p / (b + 2*c*x^n)^{(2*p)} \text{ Int}[u*(b + 2*c*x^n)^{(2*p)}, x], x] /; \text{FreeQ}[\{a, b, c, n, p\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[b^2 - 4*a*c, 0] \&\& \text{!IntegerQ}[p] \&\& \text{!AlgebraicFunctionQ}[u, x]$
7279. $\text{Int}[(u_)/((a_.) + (b_.)*(x_.)^{(n_.)} + (c_.)*(x_.)^{(n2_.)}), x_Symbol] \rightarrow \text{With}[\{v = \text{RationalFunctionExpand}[u/(a + b*x^n + c*x^{(2*n)}), x]\}, \text{Int}[v, x] /; \text{SumQ}[v]] /; \text{FreeQ}[\{a, b, c\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{IGtQ}[n, 0]$
7280. $\text{Int}[(u_)/((a_.)*(x_.)^{(m_.)} + (b_.)*\text{Sqrt}[(c_.)*(x_.)^{(n_.)})], x_Symbol] \rightarrow \text{Int}[u*((a*x^m - b*\text{Sqrt}[c*x^n]) / (a^2*x^{(2*m)} - b^2*c*x^n)), x] /; \text{FreeQ}[\{a, b, c, m, n\}, x]$
7281. $\text{Int}[u_, x_Symbol] \rightarrow \text{With}[\{lst = \text{FunctionOfLinear}[u, x]\}, \text{Simp}[1/lst[[3]] \text{ Subst}[\text{Int}[lst[[1]], x], x, lst[[2]] + lst[[3]]*x], x] /; \text{!FalseQ}[lst]]$
7282. $\text{Int}[(u_)/(x_), x_Symbol] \rightarrow \text{With}[\{lst = \text{PowerVariableExpn}[u, 0, x]\}, \text{Simp}[1/lst[[2]] \text{ Subst}[\text{Int}[\text{NormalizeIntegrand}[\text{Simplify}[lst[[1]]/x], x], x], x, (lst[[3]]*x)^{lst[[2]]}], x] /; \text{!FalseQ}[lst] \&\& \text{NeQ}[lst[[2]], 0]] /; \text{NonsumQ}[u] \&\& \text{!RationalFunctionQ}[u, x]$

7283. $\text{Int}[(u_*)(x_)^{(m_.)}, x_Symbol] := \text{With}[\{lst = \text{PowerVariableExpn}[u, m + 1, x]\}, \text{Simp}[1/lst[[2]] \text{ Subst}[\text{Int}[\text{NormalizeIntegrand}[\text{Simplify}[lst[[1]]/x], x], x], x, (lst[[3]]*x)^{lst[[2]]}], x] /; \text{!FalseQ}[lst] \&\& \text{NeQ}[lst[[2]], m + 1] /; \text{IntegerQ}[m] \&\& \text{NeQ}[m, -1] \&\& \text{NonsumQ}[u] \&\& (\text{GtQ}[m, 0] \text{ || } \text{!AlgebraicFunctionQ}[u, x])$
7284. $\text{Int}[(Fx_*)(x_)^{(m_.)}, x_Symbol] := \text{With}[\{k = \text{Denominator}[m]\}, \text{Simp}[k \text{ Subst}[\text{Int}[x^{(k*(m + 1) - 1)*\text{SubstPower}[Fx, x, k]}, x], x, x^{(1/k)}], x] /; \text{FractionQ}[m]$
7285. $\text{Int}[u_, x_Symbol] := \text{With}[\{lst = \text{FunctionOfSquareRootOfQuadratic}[u, x]\}, \text{Simp}[2 \text{ Subst}[\text{Int}[lst[[1]], x], x, lst[[2]]], x] /; \text{!FalseQ}[lst] \&\& \text{EqQ}[lst[[3]], 1] /; \text{EulerIntegrandQ}[u, x]$
7286. $\text{Int}[u_, x_Symbol] := \text{With}[\{lst = \text{FunctionOfSquareRootOfQuadratic}[u, x]\}, \text{Simp}[2 \text{ Subst}[\text{Int}[lst[[1]], x], x, lst[[2]]], x] /; \text{!FalseQ}[lst] \&\& \text{EqQ}[lst[[3]], 2] /; \text{EulerIntegrandQ}[u, x]$
7287. $\text{Int}[u_, x_Symbol] := \text{With}[\{lst = \text{FunctionOfSquareRootOfQuadratic}[u, x]\}, \text{Simp}[2 \text{ Subst}[\text{Int}[lst[[1]], x], x, lst[[2]]], x] /; \text{!FalseQ}[lst] \&\& \text{EqQ}[lst[[3]], 3] /; \text{EulerIntegrandQ}[u, x]$
7288. $\text{Int}[((a_) + (b_.)*(v_)^2)^{-1}, x_Symbol] := \text{Simp}[1/(2*a) \text{ Int}[\text{Together}[1/(1 - v/\text{Rt}[-a/b, 2])], x], x] + \text{Simp}[1/(2*a) \text{ Int}[\text{Together}[1/(1 + v/\text{Rt}[-a/b, 2])], x], x] /; \text{FreeQ}[\{a, b\}, x]$
7289. $\text{Int}[((a_) + (b_.)*(v_)^{(n_.)})^{-1}, x_Symbol] := \text{Simp}[2/(a*n) \text{ Sum}[\text{Int}[\text{Together}[1/(1 - v^2/((-1)^{(4*(k/n))*\text{Rt}[-a/b, n/2])}], x], \{k, 1, n/2\}], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IGtQ}[n/2, 1]$
7290. $\text{Int}[((a_) + (b_.)*(v_)^{(n_.)})^{-1}, x_Symbol] := \text{Simp}[1/(a*n) \text{ Sum}[\text{Int}[\text{Together}[1/(1 - v/((-1)^{(2*(k/n))*\text{Rt}[-a/b, n])}], x], \{k, 1, n\}], x] /; \text{FreeQ}[\{a, b\}, x] \&\& \text{IGtQ}[(n - 1)/2, 0]$

7291. `Int[(v_)/((a_) + (b_.)*(u_)^(n_.)), x_Symbol] := Int[ExpandIntegrand[PolynomialInSubst[v, u, x]/(a + b*x^n), x] /. x -> u, x] /; FreeQ[{a, b}, x] && IGtQ[n, 0] && PolynomialInQ[v, u, x]`
7292. `Int[u_, x_Symbol] := With[{v = NormalizeIntegrand[u, x]}, Int[v, x] /; v != u]`
7293. `Int[u_, x_Symbol] := With[{v = ExpandIntegrand[u, x]}, Int[v, x] /; SumQ[v]]`
7294. `Int[(u_.)*((a_.) + (b_.)*(x_)^(m_.))^(p_.)*((c_.) + (d_.)*(x_)^(n_.))^(q_.), x_Symbol] := Simp[(a + b*x^m)^p*((c + d*x^n)^q/x^(m*p)) Int[u*x^(m*p), x], x] /; FreeQ[{a, b, c, d, m, n, p, q}, x] && EqQ[a + d, 0] && EqQ[b + c, 0] && EqQ[m + n, 0] && EqQ[p + q, 0]`
7295. `Int[(u_)*((a_) + (b_.)*(x_)^(n_.) + (c_.)*(x_)^(n2_.))^(p_), x_Symbol] := Simp[Sqrt[a + b*x^n + c*x^(2*n)]/((4*c)^(p - 1/2)*(b + 2*c*x^n)) Int[u*(b + 2*c*x^n)^(2*p), x], x] /; FreeQ[{a, b, c, n, p}, x] && EqQ[n2, 2*n] && EqQ[b^2 - 4*a*c, 0] && IntegerQ[p - 1/2]`
7296. `Int[u_, x_Symbol] := With[{lst = SubstForFractionalPowerOfLinear[u, x]}, Simp[lst[[2]]*lst[[4]] Subst[Int[lst[[1]], x], x, lst[[3]]^(1/lst[[2]])], x] /; !FalseQ[lst]]`
7297. `Int[u_, {x_Symbol, a_, b_}] := With[{result = Int[u, x]}, Limit[result, x -> b] - Limit[result, x -> a]]`